



**Professor Ir. Ts. Dr. Pau-Loke SHOW, PhD., PEng, P.Tech. CEng, FIChemE, FHEA**



[Group Website](#)



[LinkedIn](#)



[ORCID](#)



[Scopus](#)



[Google Scholar](#)



[Publons](#)



[Research Gate](#)

Professor Ir. Ts. Dr. Pau-Loke Show is a distinguished scholar, engineer, and global thought leader in biochemical engineering. He is currently Director of the Center of Excellence for Research, Value Innovation and Entrepreneurship (CERVIE) at UCSI University, Malaysia. Prior to joining UCSI, he was a Full Professor in the Department of Chemical and Petroleum Engineering at Khalifa University, Abu Dhabi, United Arab Emirates. Before his appointment at Khalifa University, he served as Professor of Biochemical Engineering in the Department of Chemical and Environmental Engineering, Faculty of Science and Engineering, at the University of Nottingham Malaysia. He was also the founding Co-Director of Future Food Malaysia, Beacon of Excellence, and Director of the Sustainable Food Processing Research Centre. In addition, he served as the Founding President of the International Bioprocessing Society, based in Malaysia.

Prof. Show obtained his PhD in a record time of two years, immediately after completing his bachelor's degree at Universiti Putra Malaysia. He is a Fellow of the Institution of Chemical Engineers (FIChemE) and a Professional Engineer (PEng) registered with the Board of Engineers Malaysia (BEM). He is also a Chartered Engineer (CEng) with the Engineering Council UK, a Corporate Member of The Institution of Engineers, Malaysia (MIEM), and a Professional Technologist (PTech) registered with the Malaysia Board of Technologists (MBOT). Furthermore, he holds a Postgraduate Certificate of Higher Education (PGCHE) and is a Fellow of the Higher Education Academy (FHEA), UK.

Prof. Show has received numerous prestigious academic accolades, including the Mustafa Prize Young Scientist Medal 2025, Young Asian Biotechnologist Prize, Biology and Biochemistry in Malaysia Leader Award, World's Rising Stars of Science, Highly Cited Researcher recognition, Ten Outstanding Young Malaysian Award, Tan Sri Emeritus Professor Augustine SH Ong International Special Award on Innovations and Inventions in Palm Oil, APEC Science Prize for Innovation, Research and Education (ASPIRE) Malaysia Award, Malaysian Young Scientist Award, The DaSilva Award, JSPS Fellowship Award, Top 100 Asian Scientists recognition, Asia's Rising Scientists Award, and the Young Researcher Award by IChemE, among others.

He has successfully supervised more than 45 PhD and MSc students and currently leads a research team of about 30 members, comprising postdoctoral researchers, PhD candidates, and MSc students. Prof. Show has given about 50 keynotes, invited seminars, conferences, and professional short courses to the engineering fraternity. Prof. Show has authored/ co-authored close to 500 SCI top-tier international journal publications, which have collectively received more than 65,000 citations and an h-index exceeding 130 (Google Scholar). These achievements position him among the top-ranked leaders in his fields of expertise, particularly microalgae technology and food engineering, according to Google Scholar metrics. He has also served as Principal Investigator for more than 35 international, national, and industry-funded projects, with a combined funding value exceeding 5 million.

Prof. Show is actively involved in academic publishing and currently serves as Editor-in-Chief of the Journal of Current Nutrition & Food Science and the Journal of Biochemical Sciences, as well as Co-Editor-in-Chief of the Journal of Agrobiodiversity. He is an Editor for Scientific Reports and Biocatalysis and Agricultural Biotechnology, an Associate Editor for Environmental Science and Ecotechnology, and an Editorial Board Member for journals such as the Biochemical Engineering Journal, Journal of Ionic Liquids, and Chinese Chemical Letters. Additionally, he has also served as Lead Guest Editor for high-impact journals including Renewable and Sustainable Energy Reviews, Journal of Hazardous Materials, Environmental Pollution, Chemosphere, and Bioengineered, among others.

An active and highly sought-after reviewer, Prof. Show serves as a peer reviewer for more than 150 esteemed international journals, including those published by Nature, Science, Elsevier, Wiley, Springer, ACS, RSC, and Taylor & Francis. He has been recognized as a Top Peer Reviewer by Publons, receiving Top 1% Global Peer Reviewer awards in Engineering, Cross-Field, Chemistry, Biology and Biochemistry, and Agricultural Sciences. He has also acted as a handling editor for more than 3,000 manuscripts across numerous journals.

Through his unwavering dedication to research, education, and innovation, Professor Ir. Ts. Dr. Pau-Loke Show, FICHEM, ACPE, CEng, PEng, MIEM, PTech, FHEA, continues to make a profound global impact. His pioneering research, academic leadership, and commitment to sustainable technological advancement firmly establish him as one of the world's foremost authorities in biochemical engineering, microalgae technology, and sustainable food processing.

## CURRICULUM VITAE – SHOW PAU LOKE

<b>Name</b>	Pau-Loke SHOW
<b>Place &amp; Date of birth</b>	Ipoh (Perak, Malaysia) & March 22, 1986
<b>Website</b>	<a href="https://showpauloke.com/">https://showpauloke.com/</a>
<b>Research Focus</b>	<ol style="list-style-type: none"><li>1. Bioprocessing from Upstream to Downstream</li><li>2. Separation and Purification Technology</li><li>3. Algae Biorefinery Engineering</li></ol>

### Affiliation

Department of Chemical Engineering,

Khalifa University, P.O. Box 127788,  
Abu Dhabi, United Arab Emirates  
Tel: +971 585401372; Hp: +6 (010) 225 0322  
Email: [ShowPL@ucsiuniversity.edu.my](mailto:ShowPL@ucsiuniversity.edu.my) ; [showpauloke@gmail.com](mailto:showpauloke@gmail.com)

### **Educational Qualifications**

2006-2010	B. Eng. (Honours) in Process and Food Engineering	Universiti Putra Malaysia
2010-2012	Ph. D in Bioprocess Engineering	Universiti Putra Malaysia
2012-2014	PGCHE (Postgraduate Certificate in Higher Education)	University of Nottingham

### **Professional Qualifications**

1. ASEAN Chartered Professional Engineer, Board of Engineers Malaysia ACPE-05188/MY
2. Invited Lifetime Member, Malaysian Oil Scientists' and Technologists' Association, LM163/2021
3. Graduate Technologies, Malaysia Board of Technologists (MBOT), GT19060084, PT20010044
4. Chartered Engineer, Engineering Council, UK, 643295
5. Member and Chemical Engineer, Institution of Chemical Engineers, UK, 99960109
6. Professional Engineer, Board of Engineers, Malaysia, PE18678
7. Graduate Member, The Institute of Engineer, Malaysia, 27315
8. Graduate Engineer, Board of Engineers, Malaysia, GE80348A
9. Malaysia Representative, IChemE Biochemical Engineering Special Interested Group, 99960109
10. The Society for Biotechnology (Japan), SBJ Membership no.: 900550 (Year 2019)
11. Fellow, Higher Education Academy, UK
12. Affiliate Member, Young Scientist Network, Malaysia.
13. Advisor, Asian Federation of Biotechnology
14. Co-opted Member, Agricultural and Food Engineering Technical Division, The Institution of Engineers, Malaysia (IEM), Session 2021/2
15. Professional Technologist, Malaysia Board of Technologists (MBOT), PT20010044
16. Fellow, Institution of Chemical Engineers, UK (FICHEM), 99960109

### **International & Local (Malaysia) Appointment & Affiliation**

2026 – Present	Director, Center of Excellence for Research, Value Innovation and Entrepreneurship (CERVIE), UCSI University, Malaysia
2023 – 2025	Full Professor of Biochemical Engineering, Khalifa University, Abu Dhabi, UAE
2019 – 2023	Director, Sustainable Food Processing, Research Centre, University of Nottingham Malaysia
2019 – 2023	Co-Director, Future Food Malaysia, Beacon of Excellence, University of Nottingham Malaysia
2019 – date	Engineering Accreditation Council Panel (Malaysia)
2019 – date	Engineering Technologist Accreditation Council Panel

2020 - date Full Professor, Professor of Biochemical Engineering, University of Nottingham  
 April 2022 - date Visiting Professor, Wenzhou University, China  
 2020 - date Scientist-In-Residence, De La Salle University, De La Salle University, Philippine  
 2019 - 2021 President, International Bioprocessing Association (Malaysia)  
 2019 - 2020 Director of Research, Department of Chemical and Environmental Engineering, University of Nottingham Malaysia  
 2019 - date Visiting Professor, Duy Tan University, Danang, Vietnam  
 2016 - 2020 Consulting Engineer, Twolink Sdn Bhd (Malaysia)  
 2016 - 2020 Associate Professor, The University of Nottingham Malaysia  
 Jun - Sept 2018 Invited Fellow, Kobe University, Japan  
 17<sup>th</sup> -19<sup>th</sup> Apr 2018 Invited researcher, Chongqing University, China  
 21<sup>st</sup>-30<sup>th</sup> Sept 2017 Visiting Professor, Jiangnan University, Wuxi, P.R. China  
 20<sup>th</sup> - 30<sup>th</sup> Jun 2017 Visiting Scholar, National Yunlin University of Science and Technology, Yunlin County, Taiwan  
 May-Jun & Oct 2012 Visiting Researcher, Yuan Ze University, Taiwan  
 Sept 2012-Dec 2015 Assistant Professor, The University of Nottingham Malaysia  
 Sept 2011-Sept 2012 Project Engineer, Gai-Tronic Malaysia  
 Sept 2010-Sept 2012 Tutor, Universiti Putra Malaysia  
 Jan 2009-Sept 2012 Research Assistant, Universiti Putra Malaysia

## Research Experience & Areas

More than 15 years of research experience in:

1. Algae Biorefinery
2. Aquaculture Technologies
3. Bioprocessing from Upstream to Downstream
4. Food Engineering
5. Separation and Purification Technology

## *h* index and Citations

***h* index** - 130 (Google Scholar)

**Citations** - ~ 66537

## Editorial Experience

**Editor in Chief, EiC** (Aug 2019 - Present) Current Nutrition and Food Sciences

**Editor in Chief, EiC** (2023 - Present) Journal of Biochemical Sciences

**Co-EiC** (2024 - Present) Agrobiodiversity

**Review Editor** (Jan 2022 - 2024) Molecular Biotechnology

**Associate Editor** (Sep 2019 - 2023) Current Biochemical Engineering

**Associate Editor** (Jan 2019- 2021) Journal of Advanced Biotechnology and Experimental Therapeutics

**Associate Editor** (May 2023- July 2025) Environmental Science and Ecotechnology

**Editor** (June 2019 - 2024) Biocatalysis and Agricultural Biotechnology

**Editor** (Aug 2019 - 2024) Scientific Reports, Nature

**Managing Guest Editor:** Renewable & Sustainable Energy Reviews

Science of the Total Environment  
Journal of Hazardous Materials  
Biofuel Research Journal  
Sustainable Energy Technologies and Assessments  
Environmental Pollution  
Chemosphere  
Photochemistry Review  
Biochemical Engineering Journal  
Material Letters  
Bioresource Technology  
Fuel  
Journal of Biotechnology  
Scientific Reports, Nature  
Beilstein Journal of Nanotechnology  
Biomass Conversion and Biorefinery  
Environmental Research,  
Clean Technologies and Environmental Policy  
Processes  
Energies  
Biocatalysis and Agricultural Biotechnology  
Frontiers in Energy Research  
BMC Energy, Springer Nature;  
Materials Science for Energy Technologies,  
Current Nutrition & Food Science  
BMC Chemistry

**Editorial Board Member:**

1. Next Sustainability (Jan 2024 – July 2025)
2. Sustainable Chemistry One World (Oct 2023- July 2025)
3. Environmental Science and Ecotechnology (Dec 2019 -July 2025)
4. Environmental Advances, (Oct 2020 – Jan 2024)
5. Chinese Chemical Letters (Sep 2022 – Present)
6. Environmental Technology & Innovation (Mar 2022 – 2024)
7. Journal of Ionic Liquids (Feb 2022 – Present)
8. Journal of Nanostructure in Chemistry (Jan 2022 – 2023)
9. Journal of Hazardous Materials (Apr 2021 – 2023)
10. Bioresource Technology (Mar 2021 – 2023)
11. Processes, MDPI (Jan 2020 – 2024)
12. International Journal of Bioprocess and Biotechnological Advances (Dec 2018 – 2021)
13. BMC Energy, Springer Nature (August 2018 – 2021)
14. Biochemical Engineering Journal, Elsevier (Sept 2017 – Present)
15. Current Nutrition & Food Science (Nov 2018 – Dec 2019)
16. Bioengineered (Taylor & Francis) (Nov 2018 – Aug 2020)
17. Environmental Technology and Innovation (Mar 2022 – Sept 2023)
18. Food Physics, KeAi (2023 – Present)

**Verified by Web of Science:** <https://www.webofscience.com/wos/author/record/424601>

## Professional Services and Experience

1. Scientific Committee, The 15th AFOB Regional Symposium (ARS 2025), "Biotechnology Horizons: Nurturing Sustainability for Global Well-Being", July 27–30, 2025, Malaysia
2. Judge Panel, Southeast Asia Division Contest of the China International College Students' Innovation Competition 2025 (SEA-CICSIC), Xiamen University Malaysia, 2025
3. Promotion, Publicity & Sponsorship Team, The 5<sup>th</sup> Asian Federation of Biotechnology Malaysia Chapter International Symposium 2023, Malaysia
4. Judge for Young Researcher Session, The 5<sup>th</sup> Asian Federation of Biotechnology Malaysia Chapter International Symposium 2023, Malaysia
5. Evaluation Panel, Research and Postgraduate Centre 2023 (RPC) of Xiamen University Malaysia (XMUM), Malaysia
6. Panel, Engineering Accreditation Council, Malaysia
7. Panel, Engineering Technology Accreditation Council, Malaysia
8. Grant Panel, Swiss National Science Foundation
9. Grant Panel, Dhofar University Grant Panel,
10. Grant Panel, Poland's National Science Centre
11. Grant Panel, National Foundation for Science and Technology Development (NAFOSTED), Vietnam
12. Grant Panel, Kazakhstan Ministry of Education & Science
13. Grant Panel, Hungary's National Research, Development & Innovation Office
14. Grant Panel, National Center of Science and Technology Evaluation JSC
15. Grant Panel, Science Connect
16. Grant Panel, Omar National Foundation
17. Grant Panel, Agency for Science, Technology and Research (A\*STAR), Singapore
18. External Examiner, Universiti Sains Malaysia, Malaysia
19. External Examiner, Visvesvaraya Technological University, India
20. External Examiner, Universiti Putra Malaysia, Malaysia
21. External Examiner, University of Malaya, Malaysia
22. External Examiner, Indian Institute of Information Technology, Allahabad, India
23. External Examiner, University of Technology Sydney, Australia
24. External Examiner, Nanyang Technology University, Singapore
25. External Examiner, Savitribai Phule Pune University, India
26. External Examiner, University of Waikato, New Zealand
27. External Examiner, UCSI University, Malaysia
28. External Examiner, Anna University Chennai, India
29. External Examiner, Universiti Teknologi PETRONAS, Malaysia
30. External Examiner, Monash University, Australia
31. External Examiner, Vellore Institute of Technology (VIT) University, India
32. External Examiner, Monash Sunway University, Malaysia
33. External Examiner, National Institute Of Technology Warangal, India
34. External Examiner, Indian Institute of Information Technology, Allahabad, India
35. External Examiner, University of Science & Technology Murthal (Sonapat) – Haryana, India
36. External Examiner, University of Boras, Sweden
37. External Examiner, Nanyang Technology University, Singapore
38. External Examiner, Alagappa University, Cairo University, Faculty of Science, Cairo

39. External Examiner, University of Technology Sydney, Australia.
40. External Examiner, University of Waikato, New Zealand.
41. Judge, Human Life Advancement Foundation
42. Judge, Regional Chemical Engineering Undergraduate Conference (RCEUC)
43. Evaluation Panel, National Research Grant Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education Malaysia
44. Evaluation Panel, National Research Grant, MRUN Young Researchers Grant Scheme (MY-RGS), Ministry of Higher Education Malaysia
45. Evaluation Panel, National Research Grant, Prototype Research Grant Scheme (PRGS), Ministry of Higher Education Malaysia
46. Academic Promotion Evaluator, University of Jeddah, Kingdom of Saudi Arabia
47. Judge, 7<sup>th</sup> Southeast Asian Agricultural Engineering Student Chapter Annual Regional Convention 2021, Universiti Putra Malaysia
48. Judge, 3 Minutes Poster Session 2 at the AFOB-Malaysia Chapter International Symposium 2021, held between 22<sup>nd</sup> – 23<sup>rd</sup> September 2021 in Malaysia
49. Mentor, 2022 APEC YES Challenge on Green Synergy Solutions for Sustainable Community on Agriculture Residue-Based Energy and Circular Economy from June to August 2022
50. Book Reviewer, Taylor & Francis Group
51. Promotion Panel, King Saud University, KSA
52. Promotion Panel, Monash University, Malaysia
53. Promotion Panel, Universiti Teknologi Brunei, Brunei
54. Permanent Committee for Academic Promotion, University of Jeddah, Ministry of Education, KSA
55. Academic Promotion Committee, University of Bahrain, Bahrain
56. International Advisory Board, The 6<sup>th</sup> Research, Invention, and Innovation Congress (RI2C 2025)

## Theses evaluated

1. Advanced immobilisation strategies for the biological production of hydrogen using the phototrophic bacterium, *Rhodospseudomonas palustri*, PhD  
Candidate : GRANT MALCOLM KEET  
Institution : STELLENBOSCH UNIVERSITY  
Year : 2025
2. Experimental Investigation on Bamboo Fiber/Biochar Epoxy Biocomposite Rods for Concrete Beam Reinforcement, PhD  
Candidate : SRIRAM PRASAD B  
Institution : ANNA UNIVERSITY  
Year : 2025
3. Combined Effects of Ganoderma Lucidum Bioreactor Grown Biomass and Exopolysaccharide as Functional Feed Ingredients for African Catfish, PhD  
Candidate : GREMA YERIMA  
Institution : UNIVERSITI MALAYA  
Year : 2025
4. Exploration and Identification of the Effector-Triggered Immunity Pathway-Mediated Defense Responsive Genes in Chili against Geminivirus Infection

- Candidate : QANDEEL ISHFAQE  
 Institution : UNIVERSITY OF THE PUNJAB  
 Year : 2025
5. Optimization of microalgae cultivation for maximum carbon dioxide fixation and single cell protein production, MASTER  
 Candidate : SOUMAYAT ALI IBRAHIM MZE  
 Institution : INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA  
 Year : 2025
  6. Design of A Horizontal Tubular Photobioreactor Intergrated with Polyvinylidene Fluoride Membrane Sparger for CO2 Fixation, MASTER  
 Candidate : NADIA SYAUQI SYAHID BINTI MOHAMMED  
 Institution : INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA  
 Year : 2025
  7. Synthesis And Characterization Of MgO Based Nanocomposites For Potential Applications, DOCTOR OF PHILOSOPHY  
 Candidate : SAPANA  
 Institution : J.C. Bose University of Science and Technology, YMCA, Faridabad  
 Year : 2025
  8. *Lactobacillus delbrueckii subsp. bulgaricus* as a Microbial Chassis for D-Lactic Acid Biosynthesis: Strain Improvement, Metabolic Engineering, and Development of Molecular Tools, PhD  
 Candidate : PAYAL MUKHERJEE  
 Institution : INDIAN INSTITUTE OF TECHNOLOGY GUWAHATI  
 Year : 2025
  9. Impact of planting depth in conjunction with ZnSO<sub>4</sub> and FeSO<sub>4</sub> application on potato yield and starch content: A comparative study of local and exotic varieties, DOCTOR OF PHILOSOPHY  
 Candidate : HARREM KHALID  
 Institution : UNIVERSITY OF THE PUNJAB LAHORE  
 Year : 2025
  10. Integrated Oil Emulsion-Ionic Liquid Air Flotation for Microalgae Harvesting, DOCTOR OF PHILOSOPHY  
 Candidate : IAN DARYL STA MARIA  
 Institution : Monash University  
 Year : 2024
  11. Production, Characterization And Optimizaton Of Lignodiesel From The Biomass Of Tiger Milk Mushroom Produced In Air L Shaped Bioreactor, DOCTOR OF PHILOSOPHY  
 Candidate : TAN RUI YEONG  
 Institution : UNIVERSITI MALAYA  
 Year : 2024
  12. Regular Wave-induced Sloshing Of floating Photobioreactor In Microalgae Cultivation, DOCTOR OF PHILOSOPHY  
 Candidate : KHOR WEI HAN  
 Institution : UNIVERSITI TEKNOLOGI MALAYSIA  
 Year : 2024

13. Food Recycling: Extraction and Utilisation of Valuable Protein from Food Waste, DOCTOR OF PHILOSOPHY

Candidate : HINA KAMAL

Institution : UNIVERSITY OF NOTTINGHAM MALAYSIA

Year : 2024

## Awards and Research Achievements

1. Mustafa Prize for Young Scientist, 2025
2. Listed as Top 2% of World's Top Scientists in The Stanford List 2025
3. Reviewer Certificate for serving as a reviewer for ACS Publications
4. Reviewer Certificate for serving as a reviewer for AIChE Journal
5. Top cited article at ChemBioEng Reviews
6. Reviewer Certificate for serving as a reviewer for Water Resources Research
7. Reviewer Certificate for serving as a reviewer for Soil Use and Management 2024
8. Reviewer Certificate for serving as a reviewer for Sustainable Development 2024
9. Reviewer Certificate for serving as a reviewer for Global Challenges 2024
10. Reviewer Certificate for serving as a reviewer for Energy Science & Engineering 2024
11. Reviewer Certificate for serving as a reviewer for Food Science & Nutrition 2024
12. Reviewer Certificate for serving as a reviewer for Innovative Technology and Management Journal (ITMJ)
13. Reviewer Certificate for serving as a reviewer for ACS Publications 2024
14. Listed as Top 2% of World's Top Scientists in The Stanford List 2024
15. Top Reviewer Award for Process Safety and Environmental Protection, 2024
16. Stanford/Elsevier Top 2% Scientists List 2020 - 2024
17. Ranked #1 in Malaysian & Ranked #28 in the World Ranking Rising Start of Science Award 2024 from Research.com
18. Ranked #1 in Malaysian & Ranked #3396 in the World Ranking Biology and Biochemistry Leader Award 2024 from Research.com
19. Ranked #6 in Malaysian & Ranked #310 in the World Ranking Engineering and Technology Leader Award Award 2024 from Research.com
20. Listed as Top 2% of World's Top Scientists in The Stanford List 2023
21. Research.com Biology and Biochemistry in Malaysia Leader Award, 2023.
22. Research.com Rising Star of Science Award, 2023.
23. Young Asian Biotechnologist Prize 2023, Society for Biotechnology, Japan (SBJ).
24. Reviewer Certificate for serving as a reviewer for the International Journal of Food Science & Technology, 2022.
25. Reviewer Certificate for serving as a reviewer for AIChE Journal, 2022.
26. Reviewer Certificate for serving as a reviewer for Biotechnology Progress, 2022.
27. Reviewer Certificate for serving as a reviewer for ChemCatChem, 2022.
28. Reviewer Certificate for serving as a reviewer for Advanced Sustainable Systems, 2022.
29. Highly Cited Researcher 2022 (top 1% for field and year in Biology and Biochemistry), Clarivate 2022
30. Listed as Top 2% of World's Top Scientists in The Stanford List 2022
31. Ten Outstanding Young Malaysian Award 2022
32. Highly Cited Researcher 2022

33. Outstanding Research Supervisor Award 2022, University of Nottingham, UK
34. UNM Faculty of Science and Engineering Professional Outreach and External Engagement Award
35. UNM Faculty of Science and Engineering Research Publication Award 2020
36. Top Cited Article Year 2020-2021 from WILEY in International Journal of Energy Research
37. Top 3 winner, Malaysia National Kesum Initiative 2022
38. Rank Top #1 in Malaysia number of publications in ISI, Scopus 2020-2021
39. Winning the 2nd Runner-up in the National Kesum Initiative, organized by the Center for Healthy Ageing and Wellness (H-Care), Universiti Kebangsaan Malaysia, Malaysia.
40. Certificate of Appreciation, Jury of 2021 APEC-ACABT Green Synergy Solutions for Green Energy
41. Outstanding Reviewer for Environmental Technology & Innovation 2021
42. Listed as Top 2% of World's Top Scientists in The Stanford List 2021
43. Certificate as World Class Professor in recognition of his distinguished contribution to the success of the World Class Professor Program 2021
44. Certificate of Appreciation, Virtual International Faculty Development Programme, Sri Sivasubramaniya Nadar College of Engineering, 18th-27th November 2021
45. Certificate of Appreciation, Webinar on Translating Thesis and Dissertation to IMRAD Format Publication in High-Impact Journal, 24 November 2021
46. Finalist in the Biochemical Engineering 2021 IChemE Global Awards
47. Winner, Tan Sri Emeritus Professor Augustine S H Ong International Special Award on Innovations and Inventions in Palm Oil
48. Winner, 2020 Outstanding Reviewer in Water Environment Research
49. Listed as Top 2% of World's Top Scientists in The Stanford List 2020
50. Winner, APEC Science Prize for Innovation, Research and Education (ASPIRE) Malaysia Award 2020
51. Most Read and Top Download Paper 2018-2019 Award from Wiley
52. Winner of National Young Scientists Award, Malaysia 2019
53. Vice Chancellor Award, University of Nottingham, 2019
54. Global Top Peer Reviewer Awards in Engineering 2019
55. Global Top Peer Reviewer Awards in Cross-Field 2019
56. Global Top Peer Reviewer Awards Chemistry 2019
57. Global Top Peer Reviewer Awards in Biology and Biochemistry 2019
58. Global Top Peer Reviewer Awards in Agricultural Sciences 2019
59. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 17<sup>th</sup> Dec 2014
60. Best paper award in BioTech International Conference, 2014, Prague, Czech Republic, 6<sup>th</sup> – 8<sup>th</sup> Jun 2014
61. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2012
62. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2013
63. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2014
64. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2015
65. UNM Research Award (Gold), Faculty of Engineering, 2016
66. UNM Research Award (Gold), Faculty of Engineering, 2017

67. UNM Research Award (Gold), Faculty of Engineering, 2018
68. UNM Research Award (Gold), Faculty of Engineering, 2019
69. UNM Research Award (Gold), Faculty of Engineering, 2020
70. Rank #1 in the world of top Biology & Biochemistry reviewer from Publons' Global Peer Review Award 2018
71. First Malaysian won The DaSilva Award 2018 from the Society for Biotechnology, Japan
72. Finalist (Top 3) in Nanotechnology Young Researcher Award 2018 from Nanotechnology, IOP Publishing
73. ASEAN-India Research Training Fellowship (AI-RTF) 2018
74. Outstanding Paper Award 2018, Springer
75. JSPS Fellowship 2018 from Japan Society for the Promotion of Science, Japan
76. Bioresource Technology, Elsevier, Top Reviewer Award 2017
77. Silver Award, International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA) 2017, Terengganu, Malaysia
78. Top 100 Asian Scientists 2017
79. Asia's Rising Scientists Award 2017
80. Invited Speaker, 2017 BEST Conference and International Symposium on Biotechnology
81. Winner, Young Researcher Award, IChemE Malaysia Award 2016
82. Highly Cited Paper of the Year Award, Biotechnology Journal 2016
83. Highly Commended, Young Researcher Award, IChemE Global Award 2015
84. Silver Award, Invention, Innovation & Design Exposition (IIDEX) 2015, Universiti Teknologi MARA (UiTM) Shah Alam
85. Best paper award, BioTech Conference 2015, Prague
86. Platinum Research Award, Research Division (Year 2012, 2013, 2014 and 2015)
87. Gold, Publication Award, Faculty (Year 2016 and 2017)
88. School of Graduate Inaugural Stories for Inspiration, May 2012
89. Best scores in the Faculty for the Top 5 University Student Evaluation Teaching (SET) below 1.5 (Autumn 2011/2012)
90. Peer & Alumni Support Group, UPM, 2012-2019

### **Boards, Advisory Committees, Professional Organizations**

1. Organizing Committee, 1<sup>st</sup> Middle East Chemical Engineering Symposium 2023
2. Organizing Committee, 2<sup>nd</sup> International Congress of Chemical Engineering, 2022
3. Board members, AFOB Asian Federation of Biotechnology 2021
4. Organising Secretary, 3<sup>rd</sup> Postgraduate Colloquium for Environmental Research (POCER) 2021
5. Organising Secretary, 3<sup>rd</sup> International Symposium on Processing of Foods, Vegetables and Fruits 2014
6. Organising Treasurer, 4<sup>th</sup> Postgraduate Colloquium for Environmental Research (POCER) 2015
7. Organising Treasurer, 8<sup>th</sup> Asia-Pacific Drying Conference 2015
8. Organising Treasurer, 5<sup>th</sup> Postgraduate Colloquium for Environmental Research (POCER) 2017
9. Local Scientific Panels, 1<sup>st</sup> International Conference on Energy Materials (ICEM), 2021
10. Organising Chair, 6<sup>th</sup> Postgraduate Colloquium for Environmental Research (POCER) 2022
11. Organizing Committee, 2<sup>nd</sup> International Symposium on Advanced Functional Materials (ISAFM2), 2022
12. Advisor, 2<sup>nd</sup> International Conference on Water and Environment for Sustainability (ICWES)

and 7th Postgraduate Colloquium of Environmental Research (POCER) 2024

**UNIVERSITY ROLE:**

School responsibilities.

1. s-CPD Scheme Person-in-Charge, 2016 - 2019
2. Director of Research, 2019 - 2020
3. Website and Facebook – Administrator, 2017 -2019
4. Safety Team (Research Ethic), since 2017
5. Marketing Team, exhibition/promotion since 2015
6. Research Assistant Duty Officer, since 2016 - 2019
7. IT – Coordinator, since 2015 - 2019
8. Teaching Design Team – Member, since 2012 - 2018
9. Year 1 Laboratory Team – Member, since 2012 - 2017
10. Admissions & Recruitment Team – Member, since 2013 – 2014
11. Deputy Director of Accreditation and CQI, 2019 – Present
12. PO12 Champion – Life Long Learning, Since 2018

Faculty level:

1. CEE departmental representative in faculty research committee, 2019 - 2020
2. CEE departmental representative in faculty s-CPD scheme, since 2016 - 2019
3. Faculty Marketing Team - Representative Department, 2014 – 2017
4. Research Community Representative, Faculty of Engineering Health and Safety Committee, 2013 – 2018
5. Faculty Research Operation Group (FROG) – Representative Research Division, 2013 – 2015
6. Dean’s Undergraduate Research Scheme (DURS) 2014 – Coordinator
7. Manufacturing and Industrial Processes Research Division – Member, since 2013
8. Centre for Food and Bioproducts Processing – Member, since 2013
9. Research Away Day - Organising Committee, since 2014
10. Involved in EAC accreditation visit preparation, since 2014

University level:

- i. Director of Sustainable Food Processing Research Centre, since 2019
- ii. Co-Director of Future Food Malaysia Beacon of Excellence, since 2019
- iii. NAA Module Convenor for FOSE Internship, since 2019
- iv. Bio-Separation Research Group – Leader, since 2017
- v. Food and Pharmaceutical Engineering Research Group – Member, since 2013
- vi. Molecular Pharming and Bioproduction Research Group – Member, since 2015
- vii. Women in Science and Technology (WinSET) - Multimedia & Publicity Team Leader (2014 – 2016).
- viii. Gender Equality in Nottingham (GEN), 2017 onward – Communications Officer
- ix. Research Ethics Committee in Nottingham University Business School (NUBS), UNMC – Faculty of Engineering Representative, since 2015
- x. University Safety Committee - Representative research division, since 2015
- xi. F1 Talk 2013 (University Event) – Coordinator
- xii. Info Day, Open Day, and International School Visit - Organising Committee, since 2014

xiii. Organizing Industrial talks open to all staff and students - Organising Committee, since 2014

### **Plenary Talk, Keynote Speech & Invited Lecture**

1. Keynote Speaker at the 6th Institut Kimia Malaysia Pahang Branch (IKMPB) Online Symposium 2026, 31 January 2026
2. Keynote Speaker, International Symposium on Algae Biotechnology, University Faisalabad, 1 December 2025
3. Invited Speaker. World Young Scientist Summit 2025, International High-end Forum on Aquatic Ecological Environment Management and Wetland Protection. Nov 2025
4. Plenary Speaker, 8th iSTEAM+ Research Congress, 12–13 November, 2025.
5. Speaker, Monash Science Symposium (MSS), Innovating for Tomorrow: Scientific Solutions for a Sustainable Future, 15-17 July 2025
6. Keynote speaker, 2nd International Conference on Sustainable Technologies, Energies and Materials (STEM'25), 19th – 21st February 2025
7. Distinguished speaker for International Symposium on Advanced Manufacturing for Polymeric Materials (AMPM'24), Bangkok, Thailand, 24th May 2024
8. Keynote Speaker, International Conference on Sustainable Energy and Environment (ICSEE-24), organized by the Department of Chemical Engineering at Maulana Azad National Institute of Technology in Bhopal, India.
9. Keynote Speaker, Asian Regional Symposium (ARS2024) to be held at Pakistan Academy of Science, Islamabad, Pakistan, November 24-27, 2024
10. Invited Speaker, Nexus Summit 2024: Sustainability in a Changing World (NEXSUM2024), Universiti Malaysia Terengganu in Malaysia from July 24 to 27, 2024
11. Invited Speaker, Science Talk, Xi'an Jiaotong-Liverpool University, China, 3<sup>rd</sup> April 2024
12. Invited Speaker, International Conference on, Renewable Energy and Sustainable Technologies, July 04-06, 2024, Organized by Department of Applied Sciences and Humanities, Faculty of Engineering and Technology, Jamia Millia Islamia, (A Central University), New Delhi - 110025, India
13. Invited Speaker, International Conference on Advances in Biotechnology and Bioinformatics (ICABB 2024), jointly organized by Dr. D. Y. Patil Biotechnology and Bioinformatics Institute (DYPBBI) and Biotech Research Society, India (BRSI) at Dr. D. Y. Patil Vidyapeeth (Deemed to be University), Pimpri, Pune, Maharashtra, India from 26th to 29th November 2024.
14. Invited Speaker, International Conference on Advanced Bioprocessing Technologies for Biomass Conversion: Sustainability and Bioresource Management (XI IBA-IFIBiop, 2024), 1-6 December 2024
15. Invited Speaker, The Rencontres de Quy Nhon VII: International Biology Conference 2024 (BIO2024), co-organized by the scientific association "Rencontres du Vietnam", the International Center for Interdisciplinary Science and Education (ICISE) and the Vietnam-France University (USTH) on 02–04 October 2024 at ICISE, 07 Science Avenue, Ghenh Rang, Quy Nhon, Binh Dinh, Vietnam
16. Invited Speaker, 3rd International Symposium On Carbon & Functional Materials For Energy & Environment, Danang, Vietnam, 22-25 Feb 2024
17. Invited Speaker, International Colloquium of Microalgae & Diatom Research, Liquid Trees, 8<sup>th</sup> May 2024.

18. Invited Speaker, International Symposium on Advances in Algal Research, 12-14 Feb 2023, organised by IIT Guwahati, India
19. Keynote Speaker, 9th Mathematics, Science, and Computer Science Education International Seminar (MSCEIS) 2023, October 21st 2023, at the él Royale Hotel Bandung, Indonesia.
20. Invited Speaker, Research Seminar University of Technology Sydney (UTS), 13 June 2023,
21. Guest lecture, Recent Progress in Microalgae Technology, Chongqing University, China, Dec 2023
22. Invited Talk, China Ocean University, Qingdao, China, Dec 2023
23. World Class Professor Talk, Bandung, Indonesia, Oct-Nov,2023
24. Invited Speaker, Introduction to Microalgae Research. SAKURA Japan. Nov, 2023
25. Invited speaker, Application of AI in microalgae cultivation, Jiangnan University, Wuxi, China, Dec 2023
26. Keynote talk, International Conference of Natural Resources and Environment, Northwest A&F University, China, Dec 2023
27. Keynote talk, Miracle Between Microalgae, BrainLink X-Lab Day, Korea, Dec 2023
28. Invited talk, The Future of Algae & Food, Swinburne University, Feb 2023
29. Winner Talk, Young Asian Biotechnologist Prize 2023, Society for Biotechnology, Japan, Sept 2023
30. Invited Talk, Latest Development of Microalgae Biorefinery, Sri Sivasubramaniya Nadar College of Engineering, India, 2023
31. Keynote Speaker, Latest developments of biorefinery technology in the bioenergy industry, APEC conference, Taiwan, 2023
32. HiCoE, Webinar Series, Advances in Algae-Based Biofuels, Universiti Teknologi Petronas, 2/2023
33. Invited Talk, Recent Progress in Microalgae Technology, AAR 2023 at IIT Guwahati, 2023
34. Invited Speaker, Kunita Overseas Research Grant (KORG) Webinar May 6<sup>th</sup>, 2023
35. Invited Speaker, IOT in Microalgae Biorefinery, UTS, Australia, May 2023
36. Invited Talk, Microalgae Biorefinery Technology, iNEEBA 2023
37. Invited Speaker, Latest Technology in Microalgae Research, Boras University, May 2023
38. Invited Talk, New Technology in Microalgae Bioengineering, NHBT 2023 Trivandrum
39. Keynote speaker, The 1st Middle East Chemical Engineering Symposium. October 2023.
40. Invited Speaker, "Latest Development In Microalgae Biorefinery" C3 seminar. 13 Jun 2023.
41. Invited Speaker, International Conference on Sustainable Water Management and Resource Recovery 2023
42. Invited Speaker, AI in Microalgae, UNIVERSITY DIPONEGORO, 2023
43. Invited Speaker, International Thematic Lecture Series 5 "Current Research & Technology Applied on Microalgae". 23 May 2023.
44. Invited Speaker, International Conference on Sustainable Waste Management and Resource Recovery 2023. 15 April 2023.
45. Guest Speaker, Research Supervisor Series: Managing Research Students' Progression, UNM. 28 October 2022.
46. Keynote Speaker and session chair, ABBS-International Conference on Biohydrogen and Bioprocesses 2022. 2-4 Dec 2022.
47. Keynote Speaker, The 4<sup>th</sup> Asian Federation of Biotechnology Malaysia Chapter International Symposium 2022. 18-21, September 2022.
48. Participant, Meet in Malaysia @ Malaysia Business Events Week 2022, 29&30th August, 2022.
49. Chief Guest & Invited Speaker, 3rd International Virtual Conference on Recent Trends in Clean

- Technologies for Sustainable Environment (CTSE-2022, 15 and 16th September 2022
50. Keynote Speaker, International Conference on Environment, Sustainability Issues, and Community Development (INCRID), 1<sup>st</sup> Sep 2022.
  51. Invited speaker, Virtual Summer School "Green-Sustainable Chemistry for A Better Future" held by Chemistry Education Department, Faculty of Mathematics and Science Education, Indonesia University of Education, August 15th – 21<sup>st</sup> 2022.
  52. Keynote Speaker and Judge, Monash Science Symposium 2022 with the theme "Symbiosis: Exploring Extraordinary Possibilities", 13 to 15 July 2022.
  53. Chaperone, 8<sup>th</sup> International Biotechnology Competition and Exhibition 2022 (IBCEX'22), 15th & 16th April 2022
  54. Keynote Speaker, International Conference on Environmental Science and Green Technology (IC-EGT 2022), 14th & 15th March 2022
  55. Keynote Speaker, 3<sup>rd</sup> International Conference on Recent Advances in Bio-Energy Research (ICRABR-2022)
  56. Keynote Speaker, ICEGT 2022, MJIT
  57. Plenary Speaker, VI International Conference on Sustainable Energy and Environmental Challenges (VI SEEC), 2021
  58. Invited Speaker, American Society for Microbiology, Maduriakamaraj University, 8<sup>th</sup> July 2021
  59. Guest Speaker, International e-Lecture Workshop on the Innovations in Biotechnology, 19th & 20th January 2021
  60. Online Speaker, The Institution of Engineers, Malaysia (Penang Branch), 11th January 2022, Title of Presentation: A New Microalgae Biorefinery Technology for Circular Bioeconomy – Internet of Things Liquid Biphasic System
  61. Technical Committee, 33<sup>rd</sup> Symposium of Malaysian Chemical Engineers (SOMChE) 2022, 8<sup>th</sup> & 9<sup>th</sup> August 2022
  62. Chief Guest and Keynote Speaker, 1st International Conference on WATER, ENERGY & ENVIRONMENT [WEECON 2021], 23<sup>rd</sup> & 24<sup>th</sup> Dec 2021
  63. Plenary Speaker, Amirkabir University of Technology's 2<sup>nd</sup> International Academia Partnership Platform (AUT-InAPP) with a focus on "Nanofibers: From Laboratory to Industry."
  64. Keynote Speech, Mahidol University, Thailand 2021
  65. Keynote Speaker, IoT in Microalgae Biorefinery, World Class Professor 2021, Universitas Pendidikan Indonesia, Bandung-Indonesia
  66. Plenary Speaker, 2021 GNU Chemistry Summer School, Gyeongsang National University, Korea, 2<sup>nd</sup> Aug 2021
  67. Plenary Speaker, Department of Microbiology of Madras Christian College, Chennai, India, 26 July 2021
  68. Keynote Speech, International Virtual Conference on Advances in Chemistry and Materials 2021, 21 June 2021
  69. Plenary Speaker, ICPPCT: 1st International Conference on Pollution Prevention and Clean Technologies and "Taiwan-India in Emerging Environment and Energy Challenges of Technology Exchange Conference
  70. Invited Guest Speaker, Department of Chemical Engineering, Sri Sivasubramaniya Nadar College of Engineering, Chennai, India. We are happy to invite you to participate in our Virtual International Faculty Development Programme on "Strategies on Effective Way to Write Research Papers" from 18-11-2021 to 27-11-2021.
  71. Keynote Speaker, Synthetic Biology: from lab to industry" between 27-29th September 2021.

Indrashil University, Rajpur, Mehsana, India.

72. Plenary Talk, AI in Microalgae Technology, Madurai Kamaraj University, India, 6<sup>th</sup> July 2021
73. Plenary Talk Industrial Innovations and Entrepreneurship Opportunities in Algal Biotechnology, Department of Microbiology of Madras Christian College, Chennai, India, 26<sup>th</sup> July 2021
74. Keynote Speaker, The Future of Biochemical Engineering, World Class Professor 2021, Universitas Pendidikan Indonesia, Bandung-Indonesia
75. Keynote Talk, International Virtual Conference on Advances in Chemistry and Materials 2021, 21<sup>st</sup> July 2021
76. Invited Speaker, Summer School 2021, University Diponegoro, Indonesia
77. Invited Spacer, Indo-South Korea International e-Conference on Nanoscience and Nanotechnology for Energy, Environment and Biomedical Applications (iNEEBA2021) 07-08 October 2021
78. Keynote Speaker, at the AFOB-Malaysia Chapter International Symposium 2021 held between 22nd – 23rd September 2021 in Malaysia
79. Invited Talk, International Conference on Biotechnology for Resource Efficiency, Energy, Environment, Chemicals and Health (BREACH-2021) during December 1-4, 2021
80. Invited Talk, International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), April 04-08, 2021
81. Invited Talk, The International Conference on Sustainable Waste Treatment and Management (2nd SWTM-2021).
82. Plenary Speaker, International Conference on Sustainable Technology and Development 2021
83. Keynote Talk, Latest Developments of Algal Biorefinery, Kobe University, 7<sup>th</sup> July 2021
84. Plenary Speech, Microalgae Research in Malaysia, KL Tower for Sabah Meeting, 2<sup>nd</sup> April 2021
85. Invited Speaker, Sharing on Fundamental Research Grant Scheme (FRGS) University College of Technology Sarawak, 30<sup>th</sup> June 2021
86. Invited Speaker, How to manage & monitor your FRGS effectively? Xiamen University Malaysia, 6<sup>th</sup> May 2021
87. Plenary Speaker, Introduction to Scientific Paper, World Class Professor 2021, Universitas Pendidikan Indonesia, Bandung-Indonesia
88. Plenary Speaker, Indo-South Korea International e-Conference on Nanoscience and Nanotechnology for Energy 2021, Environment and Biomedical Applications, Vinayaka Mission's Kirupananda Variyar Arts and Science College, India
89. Invited Speaker, Latest Developments of Biorefinery Technology in The Biotechnology Industry International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), India, 4-8 April 2021.
90. Distinguished Guest Speaker, How to effectively write an excellent thesis? Xiamen University Malaysia, 15<sup>th</sup> April 2021
91. Invited Speaker, Latest downstream bioprocess in Malaysia, Young Scientists Network-Academy of Sciences Malaysia (YSN-ASM) International Scientific Virtual Conference (ISVC), 30<sup>th</sup> March – 1<sup>st</sup> April 2021.
92. Invited Speaker, The Importance and Future of Biochemical Engineering, Diversifying Curriculum Forum, IChemE Heads of Chemical Engineering UK, 16<sup>th</sup> February 2021
93. Keynote Talk, 4<sup>th</sup> International STEAM (Science, Technology, Engineering, Agri-Fisheries, and Mathematics) Research Congress, Philippine, February 3-4, 2021
94. Keynote Talk, The Importance of Biochemical Engineering, 11<sup>th</sup> Green Sustainable Biotechnology Symposium, Taiwan, Jan 2021

95. Keynote Talk, Latest developments of biorefinery technology in the bioenergy industry, 2020 APEC-ACAB, Green Synergy Solutions Event, Green Synergy Solutions in APEC, Taiwan, 19<sup>th</sup> Dec 2021
96. Invited Speaker, 11<sup>th</sup> Green Sustainable Biotechnology Symposium 2021, Taiwan
97. Invited Speaker, International Conference "Europe: a Bridge of Knowledge & Science for a Global Circular Economy", held on the 20<sup>th</sup> and 21<sup>st</sup> of April, organized by CECOLAB (Collaborative Laboratory Towards Circular Economy)
98. Invited Speaker, Tips for Malaysia Grant 2021, University of Technology Sarawak
99. Invited Talk, Latest developments of bioseparation technology in the food industry, 2019 Food Innovation and Engineering (FOODIE) Asia, Korea, 21<sup>st</sup> November 2021
100. Invited Speaker, Diversifying Curriculum Forum 2021, IChmeE, UK
101. Invited Talk, Latest developments of biorefinery in the biomanufacturing industry, IChemE Webniar, UK, 26<sup>th</sup> June 2020
102. Plenary Speech, Latest developments of biorefinery in the biomanufacturing industry, Sri Sivasubramaniya Nadar (SSN) College of Engineering University, India, 28<sup>th</sup> July 2020.
103. Invited Speaker, Latest developments of biorefinery in the biotech industry, IChemE Summit, Australia, 13<sup>th</sup> July 2020.
104. Invited Talk, Latest Developments of Biorefinery in the Microalgae Research, Universiti Petronas Malaysia, 30<sup>th</sup> July 2020
105. Invited Talk, Latest developments of biorefinery technology in the bioenergy industry, Universiti of Malaya 22<sup>nd</sup> Oct 2020
106. Plenary Talk, Application of Ionic Liquid in Bioprocessing Engineering, Biochemical Frontier ZJU-UNM Virtual Doctoral Forum 2020, China, Aug 2020
107. Panel Forum, Potensi Mikroalga dalam Aplikasi Akuakultur: Rawatan Air Sisa dan Suplemen Tambahan untuk Ternakan Udang, Institut Akuakultur Tropika dan Perikanan, Universiti Malaysia Terengganu, 28<sup>th</sup> April 2020.
108. Plenary Talk, Latest development Algae biorefinery from waste to bioenergy, School of Municipal and Environmental Engineering, Harbin Institute of Technology, Jan 2020
109. Plenary Talk, Sustainable Bioseparation Method\_Green Liquid Biphasic System, Department of Environmental Science and Technology, Harbin Institute of Technology, Jan 2020
110. Plenary Talk, Bioprocess from upstream to downstream for environmental engineering, State Key Lab of Urban Water Resource and Environment, Harbin Institute of Technology, Jan 2020
111. Invited Speaker, Biochemical Frontier, Zhejiang – University of Nottingham Malaysia Doctoral Forum 2020.
112. Invited Speaker, Managing Malaysia Grants 2020, Xiamen University, Malaysia.
113. Invited Speaker, Upstream Bioprocessing Engineering, Universiti of Malaya, 31<sup>st</sup> Oct 2019
114. Invited Speaker, Downstream Bioprocessing Engineering, Universiti of Malaya, 31<sup>st</sup> Sept 2019
115. Invited Speaker, Maintaining Momentum to Ensure Success Session, University of Nottingham, 4<sup>th</sup> Sep 2019
116. Invited Speaker, Liquid Biphasic System, Kobe University, Japan, 11<sup>th</sup> Oct 2019
117. Invited Speaker, Recent Development in Bioprocessing Engineering, Ocean University of China, 7<sup>th</sup> May 2019
118. Invited Speaker, Liquid-Liquid Separation, Wuhan University, China, 14<sup>th</sup> May 2019
119. Invited Speaker, Two-Phase System, Zhejiang University, China, 16<sup>th</sup> May 2019

120. Invited Speaker, Bioseparation Engineering, Nanjing University, China, 17th May 2019
121. Invited Speaker, Application of Liquid Biphasic System in Pharmaceutical Industry, China Pharmaceutical University, 21st May 2019
122. Invited Speaker, "Can Liquid Biphasic Apply in Food Industry?", Nanjing Science and Technology University, 24th May 2019
123. Invited Speaker, New Extraction Method, Vietnam Academy of Science and Technology (VAST), Vietnam, 25th Oct 2019
124. Invited Speaker, Liquid-Liquid Partitioning System, Ming Chi University of Technology, Taiwan, 1st Jul 2019
125. Invited Speaker, Downstream Bioprocess Engineering, College of Food Science and Technology, Nanjing Agricultural University, Nanjing, China, 20th Dec 2018
126. Invited Speaker, Bioseparation Engineering, Vietnam Academy of Science and Technology (VAST), Vietnam, 25th Oct 2018
127. Invited Speaker, Liquid Biphasic Partitioning System, University of Tokyo, Japan, 7th Sep 2018
128. Invited Speaker, Aqueous Two-Phase System, Osaka University, Japan, 21st Aug 2018
129. Invited Speaker, Aqueous Two-Phase Flotation System, Kyoto University, Japan, 8th Aug 2018
130. Invited Speaker, Liquid Biphasic Flotation System, Japan Advanced Institute of Science and Technology, Japan, 17th Jul 2018
131. Invited Speaker, Upstream Bioprocess Engineering, Kobe University, Japan, 18th – 29th Jun 2018
132. Invited Speaker, Advances in Bioprocess Engineering, Ming Chi University of Technology, Taiwan, 11th Jun 2018
133. Invited Speaker, "Why Bioprocess Engineering?", The University of Waikato, New Zealand, 14th May 2018
134. Invited Speaker, Advances in Bioseparation Methods, Chongqing University, China, 19th Apr 2018
135. Invited Speaker, Advances in Bioprocess Engineering, Tianjin Chengjian University, China, 17th Apr 2018
136. Invited Speaker, Application of Nanotechnology in Bioseparation, National Taipei University of Technology, Taiwan, 25th Mar 2018
137. Invited Speaker, Application of Ionic Liquid in Bioprocess Engineering, National Chung Hsing University, Taiwan, 23rd Mar 2018
138. Invited Speaker, "How Important Bioseparation in Our Life?", National Yunlin University of Science and Technology, Yunlin County, Taiwan, 21st Jun 2018
139. Invited Speaker, Lipase Recovery based on a Liquid Biphasic Partitioning System, BEST Conference and International Symposium on Biotechnology 2017
140. Keynote Speaker, 5<sup>th</sup> National Science Conference, Vietnam
141. Invited Speaker, 14<sup>th</sup> Asian Congress on Biotechnology (ACB 2019), Taiwan
142. Keynote Speaker, 2019 BEST Conference and International Symposium on Biotechnology, Taiwan
143. Invited Speaker, The Asian Federation of Biotechnology Malaysia Chapter International Symposium 2019 (AFOBMCIS 2019), Malaysia
144. 4<sup>th</sup> International Conference on Alternative Fuels, Energy and Environment (ICAFEE): Future and Challenges, Taiwan

145. Invited Speaker, The International Conference on Sustainable Energy and Green Technology 2019 (SEGT 2019), Thailand
146. Invited Speaker, Society for Biotechnology Annual Meeting 2018, Japan
147. Keynote Speaker, Green Bioprocess Engineering Forum 2018, Ming Chi University of Technology, Taiwan
148. Invited Speaker and session chair, International Bioprocessing Association - International Symposium on Advanced Membrane Bioreactors for Environment Sustainability (IBA-AMBRES 2018)
149. Plenary Speaker, International Conference on Biotechnology 2018, Hanoi, Vietnam
150. Invited Speaker, 2017 BEST Conference and International Symposium on Biotechnology, Taiwan
151. Session Chair, 23<sup>rd</sup> International Congress of Chemical and Process Engineering (CHISA) 2018 Prague & 21<sup>st</sup> Conference on Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction (PRES) 2016, Prague
152. Session Chair, Postgraduate Colloquium For Environmental Research (POCER 2015), Kuching, Sarawak, 2015
153. Invited Speaker, 5<sup>th</sup> International Conference on Algal Biomass, Biofuels & Bioproducts, 7<sup>th</sup> – 10<sup>th</sup> Jun 2015, San Diego, CA, USA
154. Invited Speaker, BioTech International Conference, 2014, Prague, Czech Republic, 6<sup>th</sup> – 8<sup>th</sup> Jun 2014
155. Invited Speaker, International Conference of Bioprocess Engineering, Universiti Perlis Malaysia (UniMAP), Perlis, Malaysia, 6<sup>th</sup> - 8<sup>th</sup> May 2012
156. Invited Speaker, World Biotechnology Congress 2013, Boston, US., 6<sup>th</sup> – 8<sup>th</sup> Jun 2013
157. Invited Speaker, International Conference of Agricultural and Food Engineering, UPM Serdang, Malaysia, 20<sup>th</sup> -22<sup>nd</sup> Nov 2012
158. 14<sup>th</sup> Asian Congress on Biotechnology, 2019, Title of presentation: Recent advances in bioprocessing engineering
159. 2019 Asian Federation of Biotechnology, 2019, Title of presentation: Latest development of bioseparation technology
160. 8<sup>th</sup> Asia-Pacific Drying Conference 2015, Title of presentation: Drying technology in bioprocessing engineering
161. 2018 BEST Conference, Title of presentation: Green Technology in Bioprocessing Engineering
162. BioTech 2018, Title of presentation: The new bio-separation strategy: Liquid Biphasic Partitioning System
163. 6<sup>th</sup> Annual World Congress of Info-Tech 2019, Title of presentation: Launch a new era of 5G in bioprocessing
164. 3<sup>rd</sup> International Symposium on the processing of food, vegetables, and fruit, Title of presentation: How processing in food application
165. Green Bioprocess Engineering Forum 2018, Title of presentation: Sustainable Food Bioprocessing Technology
166. Green Bioprocess Engineering Forum 2019, Title of presentation: Sustainable Food Bioprocessing Technology
167. POCER 2017, Title of presentation: Microalga is important to us.
168. 4<sup>th</sup> Postgraduate Colloquium for Environmental Research, Title of presentation: New liquid Biphasic system
169. Research Funding and Powering the Innovation Engine Conference 2017, Title of presentation:

Latest technology required from researchers.

170. International Workshop in catalysis, Title of presentation: Application and current outlooks.

171. Vietnam IBS 2018, Title of presentation: Oil production from rock.

### **Institution Collaborators**

Initiated MOUs to promote internationalization with well-known universities:

1. Yuan Ze University, Taiwan
2. National Cheng Kung University, Taiwan
3. National Chung Hsing University, Taiwan
4. Chongqi University, China
5. Ming Chi University of Technology, Taiwan
6. Kobe University, Japan
7. Institute of Biotechnology Vietnam
8. Chongqing University, China
9. Tunghai University, Taiwan
10. University College of Technology Sarawak
11. Malaysian Rubber Council
12. Zhejiang University, China
13. Xiamen University Malaysia
14. University of Waikato
15. Biolina Sdn Bhd

### **Industrial Collaborators, Consultations, Technical advisor**

1. Biotajmeel Cosmeceutical Sdn. Bhd.  
Lot 3174, Batu 23, Jalan Kota Bharu - Machang, Malaysia  
Jun 2019 – April 2021
2. Ripcol Industries Sdn. Bhd. (586996k)  
No.9, Jalan Chepor 11/7, Kawasan Perusahaan Seramik Chepor, 31200, Chemor, Perak.  
Sep 2017 – Dec 2019
3. The Malaysian Agricultural Research and Development Institute (MARDI)  
Ibu Pejabat MARDI, Persiaran MARDI-UPM, 43400 Serdang, Selangor.  
Jan 2016 – Present
4. Twolink Sdn. Bhd. (Malaysia)  
No.9, Hicom Town Center, Jalan Kota Raja L 27/L, Seksyen 27, 40400 Shah Alam, Selangor.  
Apr 2016 – Dec 2020
5. Ventura Agro Entreprise (Malaysia)  
Jalan Robinson Falls, 39200 Cameron Highlands, Pahang, Malaysia  
Feb 2020 – Present
6. AlgaeCytes Limited  
Discovery Park House, Ramsgate Road, Sandwich, Kent CT13 9ND

Jan 2019 – Present

7. Mentari Alam Eko (M) Sdn. Bhd.  
No. 192, Jalan LP 7/4, Kinrara Uptown, Taman Lestari Perdana, 43300 Seri Kembangan,  
Selangor Darul Ehsan  
Jan 2019 - Present
8. Biolina Corporation Sdn Bhd  
No. 30-32, Jalan Perindustrian Silibin 1, Kawasan Perindustrian Silibin, 30100 Ipoh, Perak  
Jan 2019 - Present

### **Outreach activities**

#### School talks:

1. Education Talk and Sharing Experience, organised by SRJK (C) Kampung Tawas, Ipoh, Perak, 4<sup>th</sup> Jan 2013
2. Education Talk – Plan Your Future, organised by SMK St Michael, Ipoh, Perak, 30<sup>th</sup> Dec 2013
3. Giving free tuition class to Charity Nalanda Buddies Society, Mathematics, Science, Chemistry and Biology subjects, 2013 to present
4. Collecting donation for UPM Zhong Hua Society, 2014 to date
5. Collecting recycling items from residents in Taman Bukit Kajang Baru, Kajang
6. Raise fund for Orphan Home "Rumah Keluarga Kami", 2014 to date
7. Education Talk, "Life as Researcher", Kobe University, Japan, 27<sup>th</sup> Jun 2018
8. School Talk at Alma Mater, SMI St Michael, 29<sup>th</sup> Aug 2019

#### Marketing events:

1. UNM Open Day, 23<sup>rd</sup> Mar 2019
2. Students from Loas visit UNM, 29<sup>th</sup> Jan 2019
3. UEC high school visit, 28<sup>th</sup> Nov 2018
4. Young Engineers Day, 28<sup>th</sup> Nov 2018
5. Instructor, secondary students from Hin Hua School (Klang), 14<sup>th</sup> Nov 2018
6. Info Day, UNMC, 18<sup>th</sup> Aug 2018
7. Open Day, UNMC, 17<sup>th</sup> Mar 2018
8. Sureworks Education & Further Studies Fair, Mid Valley, KL, 20<sup>th</sup> Aug 2017
9. Info Day, UNMC, 12<sup>th</sup> Aug 2017
10. Open Day, UNMC, 11<sup>th</sup> Mar 2017
11. KLSEF, Mines International Exhibition and Convention Centre (MIECC), 3<sup>rd</sup> – 5<sup>th</sup> Nov 2017
12. International High School Summer Programme (Khanzada student summer school), 3<sup>rd</sup> Aug 2016
13. KLSEF, Mines International Exhibition and Convention Centre (MIECC), 4<sup>th</sup> – 6<sup>th</sup> Nov 2016

#### Trainer and advisor for student's activities

1. UNM Business Ethic Society Advisor, 2019 to date
2. Karex Industry study trip advisor, 2019
3. Trainer and advisor for student's activities in the 11<sup>th</sup> National Chem-E-Car Competition, 2016

4. Trainer and advisor for student's activities in National Chemical Engineering Symposium (NACES), 2015
5. Trainer and advisor for student's activities in the 10th National Chem-E-Car Competition, 2015 (Winning Team: Seah Wei Hon, Woo Khae Shen, Chay Jing Wen, Low Elaine)
6. Advisor for student's activities in visiting to GAB Malaysia (2<sup>nd</sup> Dec 2014).
7. Advisor for student's activities in visiting Ajinomoto Malaysia (6<sup>th</sup> Nov 2014)
8. Advisor for student's activities in visiting Cerebos (M) Sdn. Bhd. (13<sup>th</sup> Dec 2012)
9. Advisor for student's activities in visiting Am Steel Mill (22<sup>nd</sup> Nov 2012)
10. Advisor for student activities in visiting Malaysia Palm Oil Board (MPOB) (4<sup>th</sup> Dec 2012)
11. Advisor for student's activities in visiting Geology Museum in Ipoh & Tin Dredging Museum in Batu Gajah (16<sup>th</sup> Apr 2013)

Organised more than 15 industrial and field trips, for example:

1. Industry Field Trip to IWK, Putrajaya, 23<sup>rd</sup> Oct 2019
2. Industry Field Trip to The Italian Baker Sdn. Bhd., 31<sup>st</sup> Oct 2018
3. Industry Field Trip to Inno Bio Sdn. Bhd., 20<sup>th</sup> Mar 2019
4. Industry Field Trip to Malaysia Genome Institute, 27<sup>th</sup> Mar 2018
5. Industry Field Trip to National Pharmaceutical Regulatory Agency (NPRA), 6<sup>th</sup> Apr 2017
6. Industry Field Trip to Monash Sunway University, Chemical Engineering Laboratory, 11<sup>th</sup> Mar 2016

Organised and arranged public lectures/talks to staff and students:

1. Topic: Advances of research and study in Taiwan, Speaker: Professor Dr John Chi-Wei Lan, Yuan Ze University, Taiwan, Date: 28<sup>th</sup> Nov 2013
2. Topic: Ionic Liquid in Bioseparation, Speaker: Dr Lee Sze Ying, UTAR, Malaysia, Date: 20<sup>th</sup> Feb 2019
3. Topic: Targeted therapy for cancer, Speaker: Dr Foo Jhi Biau, School of Pharmacy, Faculty of Health & Medical Sciences, Taylor's University, Malaysia, Date: 13<sup>th</sup> Mar 2019
4. Topic: "Business Ethics", Speaker: Mr Ong Ewe Hock (Chairman of BEIM), Mr So Kee Kok (Director of BEIM) and Mr K. Haridas (Executive Director of APHEM), Date: 14<sup>th</sup> Oct 2019
5. Topic: Development of liquid Biphasic Flotation system for lipase extraction, Speaker: Dr Revathy, University of Malaya, Date: 6<sup>th</sup> Mar 2019
6. Topic: Wastewater Treatment, Speaker: Dr Lim Jun Wei, University Technology Petronas, Date: 29<sup>th</sup> Mar 2019
7. Topic: Environmental Engineering, Speaker: Dr Ho Y. C., University Technology Petronas, Date: 29<sup>th</sup> Mar 2019
8. Topic: Recent Advances of Hydrogen Production from Algal Biomass, Speaker: Dr Ao Xia, School of Energy and Power Engineering at Chongqing University (CQU), Date: 9<sup>th</sup> Aug 2019
9. Topic: Experimental and Modeling Tools to Study the Ultrasound-enhanced Mass Transfer in Food Processes, Speaker: Dr Yang Tao, College of Food Science and Technology, Nanjing Agricultural University, Nanjing, China, Date: 30<sup>th</sup> Jan 2019
10. Topic: Ultrasound, Speaker: Dr T. Joyce Tiong, Date: 18<sup>th</sup> Apr 2019
11. Topic: "Food and Process Engineer", Speaker: Associate Professor Grace Ng, UCSI University, Date: 13<sup>th</sup> Mar 2018
12. Topic: "Safety consideration in plant design", Speaker: Mr Alvin from Synergy Specialist Engineering, Date: 10<sup>th</sup> Oct 2018

13. Topic: How to write a good FRGS proposal, Speaker: Head of Panellist, MOHE grant, Prof Dr Norhamidi Muhamad, Date: 23<sup>rd</sup> Jul 2019

Involved in EAC & ETAC accreditation visit:

1. Xiamen University Malaysia
2. Universiti Malaysia Perlis (Universiti Malaysia Perlis UniMAP)
3. Universiti Kuala Lumpur Kampus Cawangan Malaysian Institute of Chemical and Bioengineering Technology (UniKL MICET)).

## SUPERVISION

### (A) Doctor of Philosophy (Ph.D)

#### Primary supervisor:

1. Yoong Kit Leong, Production of biopolymer based on extractive bioconversion aqueous two-phase system (September 2013 – July 2017) - **Graduated**
2. Chioma Eberechukwu Ewurum, Techno-economic analysis of algae bio-jet fuel production processes (November 2013 – November 2017) - **Graduated**
3. Chung Hong Tan, Production of bio energies from microalgae - **Graduated**
4. Sze Ying Lee, Recovery of biomolecule and Ionic liquid synthesis in aqueous two-phase flotation (April 2014 – July 2017) - **Graduated**
5. Isabelle Hui Yi Leong, Extraction of bio ingredients from indigenous fruits (September 2015 – November 2018) - **Graduated**
6. Revathy A/P Sankaran, Large operation of aqueous two-phase flotation (November 2015 – May 2018) - **Graduated**
7. Chew Kit Wayne, Food waste compost for plants and algae growth (Dec 2016 – Nov 2018) - **Graduated**
8. Chia Shir Reen, Extraction of bioactive compound from seaweed (Jan 2018 – July 2020) - **Graduated**
9. Apurav Koyande, Recovery of bioproducts from microalgae (July 2018 – July 2021) - **Graduated**
10. Yew Guo Yong, Protein removal from glove manufacturing processing (October 2018-June 2021) - **Graduated**
11. Jerry Khoo, Production of fishmeal from microalgae (January 2019 - June 2021) - **Graduated**
12. Angela Paul Peter, Recent pathways in optimizing the cultivation of microalgae biomass using novel photobioreactor design (September 2019 – July 2022) - **Graduated**
13. Doris Tang Ying Ying, Incorporation of PUFA from oil-producing microalgae in the enrichment of palm oil (September 2019 – July 2023) - **Graduated**
14. Chia Wen Yi (Kathlyne), Optimisation of sugar extraction in palm oil milling using liquid biphasic flotation (September 2019 – July 2023) - **Graduated**
15. Nurul Syahirah Mat Aron, Extraction of biomolecules from microalgae using membrane-based separation processes (September 2019 – July 2023) - **Graduated**
16. Vishno Vardhan Devadas, The Role of Algae in Agriculture (Oct 2020 – Present)
17. Lim Hooi Ren, Designing of Simultaneous Cultivation of Spirulina and Extraction of Pigment (phycocyanin) System (Oct 2020 – Feb 2024) - **Graduated**
18. Yongqiu Cai, Encapsulation of bioactive compound from microalgae (Feb 2021 – Present)
19. Tham Pei En, Industry 4.0 in microalgae aquaculture farming (Sept 2021 – Present)

20. Ng Yan Jer, Extraction of glycolipid from microalgae for application in Industry 4.0 (Sept 2021 – Jan 2026) **Graduated**
21. Chong Jun Wei Roy, Development of systematic algal database using mobile application with the integration of artificial intelligence (Feb 2022 – 2025) **Graduated**
22. Azalea Dyah Maysarah Satya, S. Si, Microalgae and Replicating Circular Water Management in Combating Water Scarcity in Malaysia (Feb 2022 – 2025) **Graduated**
23. Wu Guowei, Development of innovative resource microalgae-based food (June 2023 – Present)
24. Lee Chan Kok, Sustainable Low Carbon Footprint Spirulina Cultivation for Animal Feed Supplement Application (June 2023 – Present)
25. Fathima Zahra Nashath, Microalgae Derivatives for Nutrient Supplementation in Humans (Sept 2023 – Present)
26. Mohammad Reziq Keewan, Atmospheric Pressure Cold Plasma technique for date palm sap preservation and shelf-life extension, (Summer 2023 – Present)
27. Yazan Hani Abuhaseesh, Net-Zero Wastewater Discharge: A Circular Bioeconomy Concept Of Recovery High-Value Compound From Microalgae Cultivated From Wastewater (Spring 2024 – Present)

**Co-supervisor:**

1. Yu Kiat Lin, Direct recovery of cyclodextrin glycosyltransferase from *Bacillus cereus* using aqueous two-phase flotation (2012 – 2016) - **Graduated**
2. Kuok Yong Ling, Glycerol Carbonate production in aqueous two-phase system (2012 – 2015) - **Graduated**
3. Yin Hui Chow, Dynamic simulation of protein separation (2010 – 2014) - **Graduated**
4. Wai Yan Cheah, Extractive bioconversion of bioenergy from wastewater using microalgae (2014 – 2018) - **Graduated**
5. Win Nee Phong, Protein recovery from algal (2016 - 2017) - **Graduated**
6. Yu Kai Ling, Biochar production from algal (2017 – 2020) - **Graduated**
7. Kee Chong Yee (2017 – 2018) - **Graduated**
8. Guinevere Szeyin, Heavy metal removal using microalgae (2018-2024) **Graduated**
9. Zhuang Dingling, Valuable biomolecules extraction and automation of biomolecules processing, (Sept 2020 – 2025) **Graduated**
10. Chan Sook Sin, Microalgae, bioremediation, wastewater treatment, microorganisms, degradation (Sept 2020 – Present)

**(B) Master in Science (MSc)**

**Primary supervisor:**

- 1) Ope Kehinde, Isolation, cultivation, and production of citric acid from fungal (September 2012-September 2013) - **Graduated**
- 2) Fazalli Edward Koroh, Simulation and optimization of biopolymer from bacteria (September 2013 – September 2014) – **Graduated**
- 3) Abdul Azim Bin Azmi, Protein recovery using membrane multiphase system (January 2019 – September 2020) – **Graduated**
- 4) Han Wen, New Approach of Extraction Bio-oil from Microalgae for Food Application (Sept 2023 – 2025) **Graduated**

**Co-supervisor:**

- 1) Nooshin, Recovery of Lipase from Burkholderia Sp. ST8 Using Aqueous Two-Phase System Based On Ionic-Liquid (2011-2012) **Graduated**
- 2) Zeinab Sadat, Extractive Fermentation Using Recyclable Aqueous Two-Phase System For Purification Of Extracellular Laccase From Pycnoporus sanguineus (2011-2012) **Graduated**
- 3) Pey Ling Chew, Direct recovery of lipase, 2011 – 2014 **Graduated**
- 4) Malcolm S.Y. Tang, The Effect of Molecular Weight of Polyethylene Glycol on the Separation of Single-Walled Carbon Nanotubes (2011-2013) **Graduated**
- 5) Devamalani Rajagopal, Effect Of Preservation Methods On Laccase Activities And Recovery Of Laccase From Processed Hericium Erinaceus (Bull:Fr) Pers. Fruiting Bodies **Graduated**

<b>RESEARCH PROJECTS / FUNDING</b>
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**Principal Investigator & Project Leader**

<b>Project title and funding source</b>	<b>Period and funds</b>
Microalgae as Animal Feed Supplement Financial source: MCI Bio-Tech Sdn Bhd	1st May 2023 – 30th April 2025 MYR 250,800
Sustainable Low Carbon Footprint Spirulina Cultivation Financial source: Prospect Bio-Tech Company Limited	1st May 2023 – 30th April 2025 MYR 214,800
Development and efficacy of a smart Integrated Microalgae-Aquaculture Recirculating System (IMARS) for sustainable aquaculture farming in Malaysia Financial source: CURTIN MALAYSIA, UMT, UNM, UTS and UTP	1st Jan 2023 – 31st Dec 2026 MYR 200,000 (Matching Research Grants)
Smart Microalgae Technology via Artificial Intelligence Vbr Creative PIt	1st March 2022 - 28th February 2024 MYR204,200.00
Bioremediation of wastewater from industrial waste via microalgae-bacteria Financial source: Kurita Water and Environment Foundation - Kurita Overseas Research Grant 2021	Duration: 1st Oct 2021 - 30th Sept 2022 Amount: JPY400,000 ~RM 15,445.20
Extraction of Lipids from Microalgae Using Liquid Biphasic Flotation (LBF) Method Ventura Agro Entreprise	01 September 2020 – 31 August 2023 MYR 231,600.00
Designing of Simultaneous Cultivation of Spirulina and Extraction of Pigment (phycocyanin) System Biolina Sdn. Bhd.	01 Nov 2020 – 31 Oct 2023 MYR 319,786.00
Organic Rapid Energy Composter (OREC) for conversion of food- and bio-waste into renewable energy source MENTARI ALAM EKO (M) SDN. BHD	1st October 2020 – 31st March 2023 MYR 240,440.00
An investigation on algal proteins partitioning mechanism in ionic liquid biphasic flotation system MyPAIR-PHC-Hibiscus, Ministry of Education, Malaysia	Duration: May 2020 – April 2022 Amount: MYR 45,000.00
Study of the separation efficiency of three phase flotation system in protein recovery from Chlorella vulgaris microalgae Fundamental Research Grant Scheme (FRGS), Ministry of Education, Malaysia	September 2019 – September 2022 MYR181,300.00

Removal of microalgae protein from rubber golve TwoLink Sdn Bhd	July 2019 – July 2020 MYR73,000.00
Coconut virgin oil production based on two-phase system Public-Private Research Network (PPRN)	July 2019 – September 2020 MYR24,000.00
Converting wastewater to bioenergy and bio-products using microalgae technology The Society for Biotechnology, Japan	January 2019 – December 2020 JPY 300,000
Efficient recovery and downstream process of valuable bioproducts using aqueous two-phase flotation at industrial scale Prototype Research Grant Scheme (PRGS), Ministry of Education, Malaysia	January 2016 – December 2018 RM 110,000
Study of Partitioning Behavior of Ionic Liquids Based Aqueous Two-Phase Systems to Improve Bio-Separation Process of Microbial Lipase from Fermentation Broth Fundamental Research Grant Scheme (FRGS), Ministry of Education, Malaysia	November 2015 – October 2018 RM 100,800
Extraction of bio ingredients from indigenous fruits Research Programme (FoodPLUS), Crops for the Future Research Centre (CFFRC)	September 2015 – December 2018 RM 142,415
Study of Lipase Partitioning Behavior in Ionic Liquids based Aqueous Two-phase Systems to Improve Bio-separation Process of Microbial Lipase from Fermentation Broth MTSF, Malaysia Toray Science Foundation, Science & Technology Research Grant	June 2015 – May 2017 RM 15,000
Development of an efficient and cost-effective enzyme recovery system using recyclable aqueous two-phase flotation Ministry of Science, Technology and Innovation (MOSTI-02-02-12-SF0256)	January 2014 – December 2016 RM 193,500
Improved downstream processing through phase formation and biomolecular partitioning in aqueous two-phase flotation Fundamental Research Grant Scheme (FRGS), Ministry of Education, Malaysia	June 2013 – November 2015 RM106, 000
Up-scale microalgae culture system integrated with solar power Capital Equipment below 50K (Dean's Budget)	June 2013 – November 2015 RM 33,500
Extraction and Purification of Green Polymers Using Aqueous Two-Phase System (ATPS) Dean's Scholarship Faculty of Engineering, UNMC	1st September 2013 - September 2016 RM 114,000
Bio-plastic production from microbial lipase using an aqueous two-phase green system Collaboration with Public Universities and Government Agencies	September 2013 – March 2014 RM10,000
Product of critic acid from microbial using extractive fermentation aqueous two - phase system Collaboration with Public Universities and Government Agencies	September 2013 - September 2014 RM4,000
Production of citric acid Dean's Undergraduate Research Scheme 2013 (DURS 2013)	September 2013 - June 2014 RM 6,000
Studies of aqueous two- phase system Dean's Undergraduate Research Scheme 2014 (DURS 2014)	June 2013 - September 2014 RM4,000

## Co-Investigator

- I. Project Title: Carbon Dioxide Conversion to Organic Acid for Upgrading of Biogas to Bio-Natural Gas (BioCng)  
Financial source: Universiti Tenaga Nasional  
Project period: 16th May 2019 – 15th May 2020  
Amount: RM30,000
- II. Industrial project with Davis Sdn Bhd (MYR15K): 1 man-day for 12 months project.
- III. Industrial project Boustead Plantation: 1 man-day for 4 months project

## Patent

1. United States Patent and Trademark Office (USPTO) Serial No. 19/306,017: DIELECTRIC BARRIER DISCHARGE SYSTEM FOR COLD PLASMA TREATMENT OF LIQUID FOOD PRODUCTS
2. IP: PI 0103 BIPHASIC SUBLATION BIOSEPARATION SYSTEM

## List of Recent Publications, including Books/Book Chapters/Technical Reports

### 2026

1. A. Zubir, E. Normaya, W. Hazman Danial, P. Sean Goh, M. Bijarimi Mat Piah, **Pau Loke Show**, A. Fauzi Ismail & M. Norazmi Ahmad\*. "State-of-the-art modification, mechanistic insight and breakthrough curve analysis of chitosan scaffolds for sustainable heavy metal adsorbent." International Journal of Environmental Science and Technology (2026): 23 [Published: 03 January 2026].
2. Mohammad Keewan, Jahirul Ahmed Mazumder, Rambabu Krishnamoorthy, **Pau Loke Show**, Fawzi Banat\*. "Microbial inactivation and quality retention of raw camel milk using dielectric barrier discharge cold plasma." LWT (2026): 240, 119008 [Accepted 5 January 2026].
3. KSD Premarathna, Tung Chiong\*, Sie Yon Lau, Meththika Vithanage, **Pau-Loke Show**. "Microalgae-based CuO nanoflowers and CuO/ZnO nanoflower composites for photocatalytic degradation of Ciprofloxacin antibiotic residue in water". Journal of Environmental Chemical Engineering (2026): 14, 121400. [Accepted 22 January 2026]
4. Abdul Hai\*, Wan Mohd Ashri Wan Daud\*, Muhamad Fazly Abdul Patah, G Bharath, Fawzi Banat\*, Muhammad Mubashir, Salam Titinchi, **Pau Loke Show**. "Towards Intelligent Desalination: A Systematic Review of CDI Cell Designs and Machine Learning-Driven Performance Modelling of Activated Carbon Electrodes". Results in Engineering (2026): 29, 109405. [Accepted 1 February 2026]

5. Adila Fazliyana Aili Hamzah, Muhammad Hazwan Hamzah, Hasfalina Che Man, Khairudin Nurulhuda, Muhammad Heikal Ismail, **Pau Loke Show**, Abd Halim Md Ali. "Subcritical water pre-treatment of palm oil waste co-digestion: physicochemical insights, energy recovery, and economic feasibility". *Sustainable Energy Technologies and Assessments* (2026): 87, 104914. [Accepted 2 March 2026]
6. Yazan Abuhasheesh, Mahendra Kumar, Farah Abuhatab, **Pau Loke Show**, Fawzi Banat, Shadi W Hasan\* "Amine-functionalized biochar/cellulose acetate hybrid membranes for sustainable municipal wastewater treatment". *Biochar* (2026): 8 [Published: 03 March 2026]
7. Jun Wei Roy Chong, Kuan Shiong Khoo, Huong-Yong Ting, Iwamoto Koji, Zengling Ma\*, **Pau Loke Show\***. "Translating pixels into identification: Cutting-edge microalgae detection and instance segmentation by leveraging YOLO models", *Ecological Informatics* (2026): 95, 103752. [Accepted 30 March 2026]
8. Mohammad Keewan, Jahirul Mazumder, Rambabu Krishnamoorthy, **Pau Loke Show**, Fawzi Banat\*. "Dielectric barrier discharge cold plasma processing of camel milk: A non-thermal route for nutrient and bioactive retention". *LWT* (2026): 248, 119363 [Accepted 8 April 2026]

### Book Chapter

1. Islam Alkahder, Doris Ying Ying Tang, Kit Wayne Chew, **Pau Loke Show**. "Microalgae for future food", in *Algae Classification and Species*, pp 1-17, Elsevier, 2026
2. Hittini, Saba, Doris Ying Ying Tang, Kit Wayne Chew, and **Pau Loke Show**. "Red algae: food and feed processing", in *Algae Classification and Species*, pp 35-50, Elsevier, 2026
3. Fathima Zahra Nashath, Doris Ying Ying Tang, **Pau Loke Show**. "Brown algae: food and feed processing", in *Algae Classification and Species*, pp 75-88, Elsevier, 2026
4. Sadiya Mushtaq, Doris Ying Ying Tang, Kit Wayne Chew, **Pau Loke Show**. "Blue-green algae: food and feed processing", in *Algae Classification and Species*, pp 101-122, Elsevier, 2026
5. Sarath Haridas Kaniyampambal, Doris Ying Ying Tang, Kit Wayne Chew, **Pau Loke Show**. "Benthic and planktonic algae: food and feed processing", in *Algae Classification and Species*, pp 157-168, Elsevier, 2026
6. Mohsina Sherief, Doris Ying Ying Tang, Kit Wayne Chew, **Pau Loke Show**. "Eukaryotic diatoms: food and feed processing", in *Algae Classification and Species*, pp 179-194, Elsevier, 2026
7. Doris Ying Ying Tang, Kit Wayne Chew, **Pau Loke Show**. "Cyanobacteria: food and feed

- processing”, in *Algae Classification and Species*, pp 195-210, Elsevier, 2026
8. Awalina Satya, Ika Atman Satya, Tjandra Chrismadha, Azalea Dyah Maysarah Satya, Ratih Pangestuti, Ardiyan Harimawan, Tjandra Setiadi, Sara Kazemi Yazdi, **Pau Loke Show**. “Stress response in cyanobacteria cultivation”, in *Algae Classification and Species*, pp 211-219, Elsevier, 2026
  9. Manideep Pabba, Doris Ying Ying Tang, Kit Wayne Chew, **Pau Loke Show**. “Microalgae: indoor cultivation methods and challenges”, in *Algae Classification and Species*, pp 221-239, Elsevier, 2026
  10. Mohammad Keewan, Doris Ying Ying Tang, Kit Wayne Chew, **Pau Loke Show**. “Microalgae: outdoor cultivation methods and challenges”, in *Algae Classification and Species*, pp 241-263, Elsevier, 2026

## 2025

1. Peng Yangyang, Cheng Chen, Ao Xia, Yun Huang, Xianqing Zhu, **Pau-Loke Show**, Xun Zhu, and Qiang Liao. "Process simulation and exergy analysis of fermentative hydrogen and methane production." *International Journal of Hydrogen Energy* (2025) [Accepted 30 December 2024].
2. Kober AKM Humayun, Mohamed Abdin, Athira Subhash, Shao-Quan Liu, Enes Dertli, Basim Abu-Jdayil, **Pau-Loke Show**, and Mutamed Ayyash. "Exopolysaccharides from camel milk-derived *Limosilactobacillus reuteri* C66: Structural characterization, bioactive and rheological properties for food applications." *Food Chemistry: X* 25 (2025): 102164 [Accepted 5 January 2025].
3. Abuhasheesh Yazan, Aya Ghazal, Doris Ying Ying Tang, Fawzi Banat, Shadi W. Hasan, and **Pau Loke Show\***. "Advances in Chlorella Microalgae for Sustainable Wastewater Treatment and Bioproduction." *Chemical Engineering Journal Advances* (2025): 100715 [Available online 10 February 2025].
4. Abuhasheesh Yazan, Aya Ghazal, Doris Ying Ying Tang, Fawzi Banat, Shadi W. Hasan, and **Pau Loke Show\***. "Green strategies for enhanced microalgae processes: leveraging bio-derived adsorbents, green solvents, and synthetic biology." *Journal of Environmental Chemical Engineering* (2025): 115986 [Accepted 25 February 2025].
5. Chai Albe Bing Zhe, Bee Theng Lau, Irine Runnie Henry Ginjom, Mark Kit Tsun Tee, **Pau Loke Show**, and Enzo Palombo. "Development of a smart incubator for microalgae cultivation in food production: A case study of *Spirulina*." *Computers and Electronics in Agriculture* 233 (2025): 110163 [Accepted 19 February 2025].
6. Chia Wen Yi, Kit Wayne Chew, Cheng Foh Le, Chelsea Siew Chyi Chee, Mae See Luan Ooi, and **Pau Loke Show\***. "Correction: Chia et al. Utilization of Aerobic Compression Composting Technology on Raw Mushroom Waste for Bioenergy Pellets Production. *Processes* 2022, 10, 463." *Processes* 13, no. 3 (2025): 854 [Accepted: 4 March 2025].

7. Zhang Xiu-xiu, Hong-yan Nan, Gong-gang Liu, **Pau-Loke Show**, and Chong-qing Wang. "A review on dissolved organic matter derived from biochar in soil: Characterizations, interaction with pollutants, and transformation." *Journal of Central South University* 32, no. 1 (2025): 122-148 [Published: 10 March 2025].
8. Sofian Abu Danish Aiman Bin Abu, S. R. Majid, Kisuk Kang, Jang-Kyo Kim, and **P. L. Show\***. "Upcycling and recycling of spent battery waste for a sustainable future: Progress and perspectives." *Progress in Materials Science* (2025): 101478 [Accepted 24 March 2025]. CiteScore: 59.6; IF: 33.6]
9. Lim Hooi Ren, Kuan Shiong Khoo, and **Pau Loke Show\***. "Impact of nutrient deficiency and harvesting strategy on biomass and phycocyanin production in *Spirulina* cultures." *Frontiers in Bioengineering and Biotechnology* 13 (2025): 1546801 [Accepted 24 March 2025].
10. Supramani Sugendran, Nur Ardiyana Rejab, Zul Ilham, Rahayu Ahmad, **Pau-Loke Show**, Mohamad Faizal Ibrahim, and Wan Abd Al Qadr Imad Wan-Mohtar. "Correction: Supramani et al. Performance of Biomass and Exopolysaccharide Production from the Medicinal Mushroom *Ganoderma lucidum* in a New Fabricated Air-L-Shaped Bioreactor (ALSB). *Processes* 2023, 11, 670." *Processes* 13, no. 5 (2025): 1280 [Accepted: 9 April 2025].
11. Ningrum Andriati, Hanifa Bagus, Umar Santoso, Heli Siti Helimatul Munawaroh, Eko Susanto, Birsan Yilmaz, and **Pau-Loke Show**. "Effect of edible coating from gelatin-k-carrageenan composites with the addition of orange peel extract (*Citrus sinensis* (L) osbeck) on the quality attributes of tomato (*Solanum lycopersicum*)." *Journal of Food Measurement and Characterization* (2025): 1-23 [Published: 17 April 2025].
12. Han Wen, Fawzi Banat, Hanifa Taher, Wen Yi Chia, and **Pau Loke Show\***. "Biomimetic Approaches for Renewable Energy and Carbon Neutrality: Advancing Nature-Inspired Approaches for Sustainable Development." *Sustainable Development* (2025) [First published: 21 April 2025].
13. Adila Fazliyana AiliHamzah, Muhammad Hazwan Hamzah, Khairudin Nurulhuda, Hasfalina Che Man, Muhammad Heikal Ismail, and **Pau Loke Show**. "Formation of soluble organics and sugar degradation byproduct during hot compressed water pre-treatment of empty fruit bunch for biogas production." *Biomass and Bioenergy* 199 (2025): 107960 [Accepted 3 May 2025].
14. Doris Ying Ying Tang, Cendy Ooi, and **Pau Loke Show\***. "Blue bioeconomy and biotechnology: towards a sustainably growing microalgae industry." *Blue Biotechnology* 2, no. 1 (2025): 13 [Published: 02 June 2025].
15. Husain A. Sumeru, Fajriana S. Nurrusyda, Nova Rachmadona, Kuan Shiong Khoo, and **Pau Loke Show\***. "Intensified cavitation process for the pretreatment of microalgae: a mini review." *Current Opinion in Chemical Engineering* 48 (2025): 101142 [Available online 6 May 2025].
16. Justus Kavita Mutuku, Hsin-Chieh Kung, Wei-Hsin Chen, Chien-Er Huang, Kuan Shiong Khoo, and **Pau Loke Show**. "Influence of Bifurcation Morphology on Exercise-Induced PAH Deposition in the Lungs: A Computational Modeling Approach for Air Quality Research." *Biomechanics and Modeling in Mechanobiology* (2025): 1-18 [Published: 21 May 2025].
17. Jun Wei Roy Chong, Kuan Shiong Khoo, Huong-Yong Ting, Iwamoto Koji, Zengling Ma, and **Pau Loke Show\***. "Artificial Intelligence (AI) approach for the quantification of C-phycocyanin in

- Spirulina platensis: Hybrid stacking-ensemble model based on machine learning and deep learning." Ecological Informatics (2025): 103186 [Accepted 3 May 2025].
18. San Juan, J. L. G., A. P. Mayol, E. Sybingco, J. S. Chang, and **P. L. Show**. "Target-oriented robust optimization for scheduling microalgal cultivation and harvesting for biofuel production." In IOP Conference Series: Earth and Environmental Science, vol. 1500, no. 1, p. 012022. IOP Publishing, 2025 [Published 1 May 2025].
  19. Fathima Zahra Nashath, Yan Jer Ng, Kuan Shiong Khoo, and **Pau Loke Show\***. "Current contributions of microalgae in global biofuel production; cultivation techniques, biofuel varieties and promising industrial ventures." Biomass and Bioenergy 201 (2025): 108092 [Accepted 14 June 2025].
  20. Suksun Amornraksa, Malinee Sriariyanun, Atthasit Tawai, Prapakorn Tantayotai, Sunphong Thanok, Theerawut Phusantsumpan, **Pau Loke Show**, and Keerthi Katam. "Impact of Yeast Strain Selection on Ethanol Yield from Low Concentration KMnO<sub>4</sub> Pretreated Rice Straw: Process Design and Utility Cost Analysis." Applied Science and Engineering Progress 18, no. 3 (2025): 7776-7776 [Published: 16 Jul 2025].
  21. Guowei Wu, Jun Wei Roy Chong, Kuan Shiong Khoo, Doris Ying Ying Tang, and **Pau Loke Show\***. "Upcycling food waste for microalgae cultivation toward lipid production in a closed-loop and system-integrated circular bioeconomy." Biotechnology for Biofuels and Bioproducts 18, no. 1 (2025): 74 [Published: 11 July 2025].
  22. Kiishhen Kobbin, Angela Paul Peter, Mohd Zuhair Mohd Nor, and **Pau Loke Show**. "Liquid Biphase Flotation System (LBFS) for Separation of Protein from Azolla pinnata." Pertanika Journal of Science & Technology 33 (2025) [Accepted: 28 May 2025].
  23. Abu Danish Aiman Bin Abu Sofian, Nurul Atilia Binti Azman, Mohd Arif Dar, S. R. Majid, Mashallah Rezakazemi, Shujahadeen Aziz, Ranjdar M. Abdullah, and **P. L. Show\***. "On the Derivation and Electrochemical Properties of Calcium Molybdate from Zeolitic Imidazole Frameworks for Supercapacitors." iScience (2025) [Accepted Date: 15 August 2025].
  24. Abdul Hai, Wan Mohd Ashri Wan Daud, Muhamad Fazly Abdul Patah, G. Bharath, Hamad AlMohamadi, Doris Ying Ying Tang, **Pau Loke Show**, and Fawzi Banat. "A comprehensive insight on activated carbon production from agricultural biomass: Parametric analysis, challenges, future recommendations & machine learning modelling." Resources, Conservation & Recycling Advances (2025): 200284 [Available online 16 August 2025].
  25. Doris Ying Ying Tang, Yongcai Feng, Lin Chen, Natasa Nastic, Fawzi Banat, and **Pau Loke Show\***. "Advancing Sustainable Utilization of Date Palm, Phoenix dactylifera, a Multifunctional Resource for Agro-Industrial Applications." Agricultural & Rural Studies 3, no. 3 (2025): 23-23 [Published: 19 Sept 2025].
  26. Yazan Abuhaseesh, Fawzi Banat, **Pau Loke Show**, and Shadi W. Hasan. "Electro-assisted microalgae cultivation, harvesting, and recovery of high-value products: A review." Bioresource Technology (2025): 133269 [Accepted 3 September 2025].

27. Ruoyan Wu, Xiaolin Wang, Siyu He, Minyi Wu, Panyu Li, **Pau-Loke Show**, Ping Han, Muhammad Hazwan Hamzah, Yongkui Zhang, Jing Chen\*. "Robust immobilization of uranium using biogenic FeS with lignocellulose from green plant waste." *Chemical Engineering Journal* (2025): 528, 172352 [Accepted 26 December 2025].
28. Zeyad M. Abdulhamid\*, Yazan Abuhaseesh\*, Mohamed E. Daoud, Mahendra Kumar, Dalaver H. Anjum, **Pau Loke Show**, Shadi W. Hasan. "Waste microalgal biomass-derived biochar electrode for sustainable high-performance supercapacitors: Experimental and computational insights." *Environmental Technology & Innovation* (2025): 41, 104681 [Accepted 3 December 2025].
29. Anette Gisela Botello-Ojeda, Eva Águila-Almanza, Heriberto Hernández-Cocoletzi, Edith Chavez-Bravo, María Beatriz Bernabé-Loranca, Chaofan Zhang, **Pau Loke Show** & Lilia Alejandra Conde-Hernández\*. "Essential oils extracted from Mexican giant hyssop (*Agastache mexicana* subsp. *xolocotziana*) by a central composite face-centered (CCF) design." *Biomass Conversion and Biorefinery* (2025): 15, 31133–31148 [Published: 09 October 2025].
30. Ammar Alowaisy, Mintallah Mousa A. Allouzi, Wen Yi Chia\*, Andres Philip Mayol, Malinee Sriariyanun, **Pau Loke Show**\*. "Interactions between phytoplankton species and micro/nano-plastics and heavy metal contamination." *Biological Reviews* (2025): 101, 60-73 [Published: 07 October 2025].
31. Yan Jer Ng, Kuan Shiong Khoo\*, Kit Wayne Chew, Doris Ying Ying Tang, Sarah Alharthi, Andres Philip Mayol & **Pau Loke Show**\*. "Solution towards low yield biosurfactant production from bacteria, a novel approach using microalgae–bacteria consortium." *Microbial Cell Factories* (2025): 24 [Published: 13 October 2025].
32. Kiishhen Kobbin, Kamil Kayode Katibi, Norafiqah Norazhar, Mohd Zuhair Mohd Nor\*, **Pau Loke Show**, Mohd Salahuddin Mohd Basri, Mohd Noriznan Mokhtar. "Integration of ultrasonication with liquid triphasic flotation system for the extraction of phycocyanin and protein from *Spirulina platensis*." *Journal of Chemical Technology & Biotechnology* (2025) [Published: 22 October 2025].
33. Mohammad Keewan, Rambabu Krishnamoorthy\*, **Pau Loke Show**, Doris Ying Ying Tang, Fawzi Banat. "Atmospheric-Pressure Cold Plasma: A Next-Generation Nonthermal Technology for Enhancing Food Safety, Quality, and Shelf Life." *Food Frontiers* (2025): 6, 2766-2788 [Published: 23 September 2025].
34. Xiaolin Wang, Fangxu Li, Ruoyan Wu, Siyu He, Panyu Li, **Pau-Loke Show**, Yongkui Zhang, Jing Chen\*. "Mechanism of direct treatment of high concentration uranium using sulfate reducing bacteria." *Chemical Engineering Journal* (2025): 520, 166265 [Accepted 20 July 2025].
35. Mengjie Wu, Yuke Qin, Ahmed A. Radwan, **Pau Loke Show**, Baoling Liao, Zhanwei Li\*, Zhonghua Cai, Jin Zhou\*. "Heat and cold stress have heterogeneous effects on the carbon metabolism characteristics of coral-associated microorganisms." *Ocean* (2025) [Accepted: 04 November 2025].

## Book Chapter

36. Vennila, S., Wai Siong Chai, Kuan Shiong Khoo, K. Loganathan, and **Pau Loke Show**. "Spectroscopic Nonlinear Optical Characteristics of Porphyrin-Functionalized Nanocomposite Materials." *Porphyrim-Based Composites: Materials and Applications* (2025): 87-112.
37. Satya, Azalea DM, Awalina Satya, Ika A. Satya, Sara K. Yazdi, **Pau-Loke Show**, Tjandra Christmadha, and Tjandra Setiadi. "Life-cycle assessment framework applied to sustainable integrated aquaculture systems for urban living." In *Nature-Based Solutions for Urban Sustainability*, pp. 289-307. IWA Publishing, 2025.
38. Malinee Sriariyanun, Yu-Shen Cheng, **Pau-Loke Show**, and Hassan El Bari. "Suitable feedstocks and advanced combining pretreatment for optimized biomethane and biohydrogen production." In *Biogas in the Circular Economy*, pp. 1-46. Woodhead Publishing, 2025.

## 2024

1. Catarina Meliana, Jingjing Liu, **Pau Loke Show**, Sze Shin Low\*. (2024) "Biosensor in smart food traceability system for food safety and security" *Bioengineered*, 15, 2310908. [Accepted 23 January, 2024, IF: 4.9(2022)]
2. Xiuxiu Zhang, Rong Huang, **Pau Loke Show**, Jürgen Mahlke, Chongqing Wang\*. (2024) "Degradation of tetracycline by nitrogen-doped biochar as a peroxydisulfate activator: Nitrogen doping pattern and non-radical mechanism" *Sustainable Horizons*, 10, 100091. [Accepted 4 January 2024]
3. Jun Wei Roy Chong, Kuan Shiong Khoo\*, Kit Wayne Chew\*, Huong-Yong Ting, Iwamoto Koji, Roger Ruan, Zengling Ma\*, **Pau Loke Show\***. (2024) "Artificial intelligence-driven microalgae autotrophic batch cultivation: A comparative study of machine and deep learning-based image classification models" *Algal Research*, 103400. [Accepted 19 January 2024, IF: 5.1 (2022)]
4. Tran Thi Huyen Nga, Cung Thi Ngoc Mai, Pham Kien Cuong, Nguyen Viet Linh, Nguyen Xuan Canh, Jun Wei Roy Chong, Kuan Shiong Khoo, **Pau Loke Show\***. (2024) "Enhancement of textile wastewater biodegradation by biofilm formed on carriers by two halo thermophilic photosynthetic purple bacteria" *Journal of Water Process Engineering*, 58, 104769. [Accepted 31 December 2023, IF: 7.0(2022)]
5. Afnan Ahmadi Zahuri, Wan Hanna Melini Wan Mohtar\*, Zarimah Mohd Hanafiah, Muhamad Fazly Abdul Patah, **Pau-Loke Show**, Yusufjon Gafforov, Wan Abd Al Qadr Imad Wan-Mohtar. (2024) "Mycoremediation of Industrial Textile Wastewater Using *Ganoderma lucidum* Pellets and Activated Dolomite in Batch Bioreactor" *Molecular Biotechnology*, 1-16. [Accepted 12 December 2023, IF: 2.6(2022)]
6. Abu Danish Aiman Bin Abu Sofian, Xun Sun, Vijai Kumar Gupta, Aydin Berenjian, Ao Xia, Zengling Ma, **Pau Loke Show\***. (2024) "Advances, Synergy, and Perspectives of Machine Learning and Biobased Polymers for Energy, Fuels, and Biochemicals for a Sustainable Future" *Energy & Fuels*. [IF: 5.3(2022)]

7. Yew Lun Tan, Inn Shi Tan\*, Henry Chee Yew Foo, Jibrail Kandedo, Man Kee Lam, Steven Lim, **Pau Loke Show**, Mee Kee Wong. (2024) "Biorefinery-based sustainability assessment of macroalgae waste valorization to polylactic acid: Exergy and exergoeconomic perspectives, *Biochemical Engineering Journal*, 109219. [Accepted 5 January 2024, IF: 3.9(2022)]
8. Abu Danish Aiman Bin Abu Sofian, Hooi Ren Lim, Heli Siti Halimatul Munawaroh, Zengling Ma\*, Kit Wayne Chew\*, **Pau Loke Show\***. (2024) "Machine learning and the renewable energy revolution: Exploring solar and wind energy solutions for a sustainable future including innovations in energy storage" *Sustainable Development*, 1–26. [Accepted 25 December 2023, IF: 12.5(2022)]
9. Ming Guo, Yilin Lu, Hao Xue, **Pau Loke Show**, Joon Yong Yoon\*, Xun Sun\*. (2024) "Numerical simulation on the enhancement mechanism of the distinctive division baffle on the performance of a Venturi for process intensification" *Journal of Water Process Engineering*, 57, 104719. [Accepted 19 December 2023, IF: 7.0(2022)]
10. Anh-Tam Nguyen, Kim Hoong Ng\*, Ponnusamy Senthil Kumar, Thuy-Phuong T Pham, HD Setiabudi, Mohammad Yusuf, **Pau Loke Show\***, Ijaz Hussain, Dai-Viet N Vo\*. (2024) "Sustainable hydrogen production and CO<sub>2</sub> mitigation from acetic acid dry reforming over Ni/Al<sub>2</sub>O<sub>3</sub> catalyst" *International Journal of Hydrogen Energy*. [Accepted 13 February 2024, IF: 7.2(2022)]
11. Tien-Hsin Cheng, Ruei-Hong Lin, Yu-Shen Cheng\*, Pin-Keng Shih, **Pau Loke Show**, Hsiao-Yi Chen, Pattarawadee Sumthong Nakmee, Jui-Jen Chang\*, Dong-Ming Huang\*, Hui-Min David Wang\*. (2024) "A biomimetic micropillar wound dressing with flavone and polyphenol control release in vitro and in vivo" *Journal of the Taiwan Institute of Chemical Engineers*, 105385. [Accepted 25 January 2024, IF: 5.7(2022)]
12. Sudhir K Upadhyay\*, Garima Singh, Nitu Rani, Vishnu D Rajput, Chandra Shekhar Seth, Padmanabh Dwivedi, Tatiana Minkina, Ming Hung Wong, **Pau Loke Show\***, Kuan Shiong Khoo\*. (2024) "Transforming bio-waste into value-added products mediated microbes for enhancing soil health and crop production: perspective views on circular economy" *Environmental Technology & Innovation*, 103573. [Accepted 12 February 2024, IF: 7.1(2022)]
13. Abu Danish Aiman Bin Abu Sofian, Hooi Ren Lim, Sivakumar Manickam, Wei Lun Ang, **Pau Loke Show\***. (2024) "Towards a Sustainable Circular Economy: Algae-Based Bioplastics and the Role of Internet-of-Things and Machine Learning" *ChemBioEng Reviews*, 11, 39-59. [Accepted 26 September 2023, IF: 4.8(2022)]
14. Ika Atman Satya, Awalina Satya\*, Tjandra Chrismadha, Rosadi Rosadi, Azalea Dyah Maysarah, Ardiyan Harimawan, Tjandra Setiadi, Doris Ying Ying Tang, **Pau Loke Show\***. (2024) "Cultivation Of *Spirulina Platensis* for carbon dioxide bio sequestration in hybrid photobioreactor with real-time monitoring system" *Journal of Environmental Chemical Engineering*, 12, 112396. [Accepted 3 March 2024, IF: 7.7(2022)]
15. Yu Dong Yat, Henry Chee Yew Foo\*, Inn Shi Tan\*, Man Kee Lam, **Pau Loke Show**, Bryant Wei Liang Ng.(2024) "Synthesis of carbon quantum dots via electrochemically-induced carbon dioxide nanobubbles exfoliation of graphite for heavy metal detection in wastewater" *Journal of Environmental Chemical Engineering*, 12, 112715. [Accepted 4 April 2024, IF: 7.7(2022)]
16. Kimaya A Shukla, Abu Danish Aiman Bin Abu Sofian, Ajit Singh\*, Wei Hsin Chen, **Pau Loke**

- Show\***, Yi Jing Chan\*.(2024) "Food waste management and sustainable waste to energy: Current efforts, anaerobic digestion, incinerator and hydrothermal carbonization with a focus in Malaysia" *Journal of Cleaner Production*, 448, 141457. [Accepted 24 February 2024]
17. Heli Siti Halimatul Munawaroh\*, Gun Gun Gumilar, Riska Nur Pratiwi, Selmi Fiqhi Khoiriah, Andriati Ningrum, Larasati Martha, Kit Wayne Chew\*, **Pau-Loke Show**.(2024) "In silico antiviral properties of *Spirulina platensis* phycobiliprotein and phycobilin as natural inhibitor for SARS-CoV-2" *Algal Research*, 79, 103468. [Accepted 7 March 2024, IF: 5.1(2022)]
  18. Chongqing Wang, Xiao Lin, Xiuxiu Zhang, **Pau Loke Show\***.(2024) "Research advances on production and application of algal biochar in environmental remediation" *Environmental Pollution*, 348, 123860. [Accepted 23 March 2024, IF: 8.9(2022)]
  19. Kraipat Cheenkachorn, Elizabeth Jayex Panakkal, Chaichana Chatkaew, Santi Chuetor, **Pau-Loke Show**, Hassan El Bari, Ponnusami Venkatachalam, Malinee Sriariyanun\*.(2024) "Effect of coupling dewaxing and chemical pretreatment on valorization of waxy fruit wastes" *Biomass Conversion and Biorefinery*, 1-11. [Accepted 7 March 2024, IF: 4.0(2022)]
  20. Chiew Foan Chin\*, Ee Von Goh, Andrew C Clarke, Michelle Li Ern Ang, **Pau Loke Show**, Christina V Supramaniam, Asgar Ali, Susan Azam-Ali, Richard Beyer, Alvin Culaba, Heli Siti Halimatul Munawaroh, Kinaai Kairo, Kuan Shiong Khoo, Gaik Cheng Khoo, Patricia Matanjun, Festo Massawe, Miang H Lim, Revathy Sankaran, Malinee Sriariyanun, Bernard Nino Q Membrebe, Peter Noy, Alex M Lechner\*.(2024) "Transforming food systems in Maritime Southeast Asia and Pacific Small Island Developing States to support food security and sustainable healthy diets" *Frontiers in Sustainable Food Systems*, 8. [Accepted 5 February 2024, IF: 4.7(2022)]
  21. Mohammad Azari\*, **Pau Loke Show**, Rui Du, Xiaowu Huang\*. (2024) "Editorial: Advanced biotechnologies towards energy-efficient wastewater treatment plants" *Frontiers in Microbiology*, 15. [Accepted 12 April 2024, IF: 5.2 (2022)]
  22. Chung Hong Tan, Sze Shin Low, Wai Yan Cheah, Jeevandeep Singh, Wai Siong Chai\*, Sieh Kiong Tiong, **Pau Loke Show\***. (2024) "Futuristic opportunities for pretreatment processes in biofuel production from microalgae" *GCB Bioenergy: Bioproducts for a Sustainable Bioeconomy*, 16. [Accepted 29 February 2024, 5.6 (2022)]
  23. K. S. D. Premarathna, Sie Yon Lau\*, Tung Chiong, **Pau-Loke Show**, Meththika Vithanage, Man Kee Lam. (2024) "Greening up the fight against emerging contaminants: algae-based nanoparticles for water remediation" *Clean Technologies and Environmental Policy*. [Accepted 01 May 2024, 4.3 (2022)]
  24. Ajit Singh\*, Abu Danish Aiman Bin Abu Sofian, Yi Jing Chan\*, Anita Chakrabarty, Anurita Selvarajoo, Yousif Abdalla Abakr, **Pau Loke Show\*** (2024) "Hydrothermal carbonization: Sustainable pathways for waste-to-energy conversion and biocoal production" *GCB Bioenergy: Bioproducts for a Sustainable Bioeconomy*. [Accepted 3 April 2024, 5.6 (2022)]
  25. Wei-Hsin Chen\*, Yuan-Sheng Wang, Min-Hsing Chang\*, **Pau Loke Show**, Anh Tuan Hoang (2024) "Operation parameter interaction and optimization of vertical axis wind turbine analyzed by Taguchi method with modified additive model and ANOVA" *Energy Reports*, 11, 5189-5200. [Accepted 30 April 2024, 5.2 (2022)]
  26. Jie Yang\*, Pengpeng Zhao, Qiqi Wang, Feng Xu, Yaxuan Bai, Saikun Pan, Wenbin Wang, Doris Ying Ying Tang, **Pau Loke Show\*** (2024) "Peptidomics-inspired discovery and activity evaluation of antioxidant peptides in multiple strains mixed fermentation of *Porphyra yezoensis*" *Food Chemistry*. [Accepted 19 May 2024, 8.8 (2022)]
  27. Suparmaniam Uganeeswary, Man Kee Lam\*, Rawindran Hemamalini, Jun Wei Lim, Khairul Faizal Pa'ee, Kelly Yong Tau Len, Inn Shi Tan, **Pau Loke Show**, Keat Teong Lee (2024) "Preliminary screening of agri-food waste for potential recovery of microalgae biostimulant" *AIP Conference*

Proceedings: 4TH INTERNATIONAL CONFERENCE ON SEPARATION TECHNOLOGY: SEPARATION TECHNOLOGY: RISING TOWARDS GREENER FUTURE.

28. Richard Q. Mensah, Prapakorn Tantayotai, Kittipong Rattanaporn, Santi Chuetor, Suchata Kirdponpattara, Mohamed Kchaou, **Pau-Loke Show**, Solange I. Mussatto, Malinee Sriariyanun\* (2024) "Properties and applications of green-derived products from spent coffee grounds–Steps towards sustainability" *Bioresource Technology Reports*. [Accepted 8 May 2024]
29. Feng, Yuan, Jingke Ge, **Pau Loke Show**, Chi Song, Liumiao Wu, Zengling Ma, and Guang Gao. "Using high CO<sub>2</sub> concentrations to culture microalgae for lipid and fatty acid production: Synthesis based on a meta-analysis." *Aquaculture* (2024): 741386. [Accepted 22 July 2024]
30. Hamzah, Adila Fazliyana Aili, Muhammad Hazwan Hamzah, Khairudin Nurulhuda, Hasfalina Che Man, Muhammad Heikal Ismail, and **Pau Loke Show**. "Utilization of subcritical water for improving methane production from oil palm empty fruit bunch by anaerobic co-digestion: Process optimization, compositional, chemical, and morphological analysis." *Renewable Energy* (2024): 121013. [Accepted 15 July 2024]
31. **Show, Pau-Loke**, Dai-Viet N. Vo, Senthil Kumar Ponnusamy, Saravanan Rajendran Alta, and Gopalakrishnan Kumar. "Advanced Thermochemical and Biochemical Processes for Biomass Transformation To Biofuels and Biochemicals." *Biomass Conversion and Biorefinery* (2024): 1-1. [Accepted 11 June 2024]
32. Rahman, SK H., C. L. Yap, L. V. Yap, Y. J. Chan, and **P. L. Show**. "Potential application of landfill leachate as the substrate for electricity generation." In *IOP Conference Series: Earth and Environmental Science*, vol. 1347, no. 1, p. 012019. IOP Publishing, 2024. [Accepted 1 June 2024]
33. Zubir, Aisyah, Erna Normaya, Nurul Huda Zuhaidi, Pei Sean Goh, Mohd Bijarimi Mat Piah, Mohamad Wafiuddin Ismail, **Pau-Loke Show**, Ahmad Fauzi Ismail, and Mohammad Norazmi Ahmad. "Optimization and Mechanistic Insight of Phenol Removal using an Effective Green Kaolin Adsorbent through Experimental and Computational Approaches." *Journal of Molecular Structure* (2024): 139219. [Accepted 4 July 2024]
34. Chong, Jun Wei Roy, Kuan Shiong Khoo\*, Kit Wayne Chew\*, Huong-Yong Ting, Iwamoto Koji, and **Pau Loke Show\***. "Digitalised prediction of blue pigment content from *Spirulina platensis*: Next-generation microalgae bio-molecule detection." *Algal Research* (2024): 103642. [Accepted 30 July 2024]
35. Albe Bing Zhe Chai, Bee Theng Lau, Mark Kit Tsun Tee, Irine Runnie Henry Ginjom, Sheena Punai Philimon, **Pau Loke Show**, Enzo Palombo, Caslon Chua, Paul Cornelius Bong, and Chan Kok Lee "Smart incubator for small-scale algae cultivation with Internet of Things", *Proc. SPIE* 13224, 4th International Conference on Internet of Things and Smart City (IoTSC 2024), 132242K (7 August 2024); <https://doi.org/10.1117/12.3034987>. [Accepted 07 August 2024]
36. Lau, Sie Yon, Philip Ting Kin Tien, Sook Yan Choy, Jaison Jeevanandam, **Pau-Loke Show**, Man Kee Lam, Yie Hua Tan, and Steven Lim. "Unleashing the power of plant-based modified starch as a game-changing natural coagulant." *Process Biochemistry* (2024). [Accepted 9 August 2024]
37. Irfa'i, Mochamad A., Stefanus Muryanto, Antonius Prihanto, Yustina M. Pusparizkita, Rifky Ismail, J. Jamari, Athanasius P. Bayuseno, and **Pau Loke Show**. "Microwave-assisted hydrothermal synthesis of carbonated apatite with calcium and phosphate resources derived

- from green mussel shell and bovine bone wastes." *Environmental Advances* (2024): 100582. [Accepted 26 August 2024]
38. Go, Eun Sol, Jester Lih Jie Ling, Bhanupratap S. Solanki, Hyungwoong Ahn, **Pau Loke Show**, and See Hoon Lee. "Current advances and future prospects of in-situ desulfurization processes in oxy-fuel combustion reactors." *Environmental Research* (2024): 119982. [Accepted 10 September 2024]
  39. Hanafiah, Zarimah Mohd, Ammar Radzi Azmi, Zul Ilham, Wan Hanna Melini Wan Mohtar, Sarina Abdul Halim-Lim, Ayu Lana Nafisyah, **Pau Loke Show**, and Wan Abd Al Qadr Imad Wan. "Treatment of the Textile Wastewater using Malaysian *Ganoderma lucidum* Mycelial Pellets." *Sains Malaysiana* 53, no. 7 (2024): 1645-1660. [Accepted 10 June 2024]
  40. Tan, Vigggy Wee Gee, Yazan Abuhashesh, Doris Ying Ying Tang, Yongyu Zhang, Zengling Ma, Lin Chen, Rambabu Krishnamoorthy, and Pau Loke Show. "A Critical Assessment of Ionic Liquid-based Aqueous Biphasic Systems for Biomolecules Extraction and CO<sub>2</sub> Absorption." *Chemical Engineering Journal Advances* (2024): 100670. [Accepted 24 October 2024]
  41. Ren, Hongyan, Mingwei Shen, Duan Zhou, Wei Wu, Yahui Sun, Kuan Shiong Khoo, and Pau Loke Show\*. "Dynamic behavior and transfer characteristics of CO<sub>2</sub>-enriched bubbles within *Spirulina* sp. suspension under various aeration conditions using the high-speed imaging technique." *Algal Research* (2024): 103758. [Accepted 15 October 2024]
  42. Yang, Jie, Pengpeng Zhao, Qiqi Wang, Feng Xu, Yaxuan Bai, Saikun Pan, Wenbin Wang, Doris Ying Ying Tang, and Pau Loke Show\*. "Peptidomics-inspired discovery and activity evaluation of antioxidant peptides in multiple strains mixed fermentation of *Porphyra yezoensis*." *Food Chemistry* 455 (2024): 139779. [Accepted 19 May 2024]

## Book

43. Vennila Selvaraj, Kuan Shiong Khoo, **Pau Loke Show**, Gurunathan Karuppasamy, Jun Wei Roy Chong. (2024) "Chapter 15 - Quaternary and more complex metal oxide compounds for gas sensor design" *Complex and Composite Metal Oxides for Gas, VOC and Humidity Sensors, Volume 2: Technology and New Trends*, Elsevier.
44. Awalina Satya, Azalea Dyah Maysarah Satya, Tjandra Chrismadha, Nofdianto Nofdianto, Gunawan Gunawan, Ika Atman Satya, Souvia Rahimah, Efri Mardawati, Sara Kazemi Yazdi, **Pau-Loke Show**. (2024) "The Production of Microalgae and Cyanobacteria Biomass and Their Valuable Bioproducts" *Biomass Conversion and Sustainable Biorefinery: Towards Circular Bioeconomy*, Springer Nature Singapore.
45. Lee, Tommy Hoong-Wy, **Pau-Loke Show**, Hwai Chyuan Ong, Tau Chuan Ling, John Chi-Wei Lan, and Jo-Shu Chang. "Microalgae isolation and cultivation technology for mass production." In *Handbook of Biorefinery Research and Technology: Production of Biofuels and Biochemicals*, pp. 651-678. Singapore: Springer Nature Singapore, 2024.
46. Koyande, Apurav Krishna, and **Pau-Loke Show**. "Microalgae Harvest Technology 25." *Handbook of Biorefinery Research and Technology: Production of Biofuels and Biochemicals* (2024): 705.

## 2023

47. Zahidul Islam Rony, M Mofijur\*, MM Hasan, SF Ahmed, Fares Almomani\*, MG Rasul, MI Jahirul, **Pau Loke Show**, MA Kalam, TMI Mahlia. (2023) "Unanswered issues on decarbonizing the aviation industry through the development of sustainable aviation fuel from microalgae" *Fuel*,

- 334, 126553. [Accepted 27 October 2022, IF: 8.035(2021)]
48. Angela Paul Peter, Kit Wayne Chew\*, Ashok Pandey, Sie Yon Lau, Saravanan Rajendran, Huong Yong Ting, Heli Siti Halimatul Munawaroh, Nguyen Van Phuong, **Pau Loke Show\***. (2023) "Artificial intelligence model for monitoring biomass growth in semi-batch *Chlorella vulgaris* cultivation" *Fuel*, 333, 126438. [Accepted 18 October 2022, IF: 8.035(2021)]
49. Sumera Arshad, Mushtaq Ahmad, Mamoona Munir, Shazia Sultana, Muhammad Zafar, Sumreen Dawood, Ahmad M Alghamdi, Saira Asif\*, Awais Bokhari, Muhammad Mubashir, Lai Fatt Chuah\*, **Pau Loke Show\***. (2023) "Assessing the potential of green CdO<sub>2</sub> nano-catalyst for the synthesis of biodiesel using non-edible seed oil of Malabar Ebony" *Fuel*, 333, 126492. [Accepted 21 October 2022, IF: 8.035(2021)]
50. Yue Cao, Yegeng Sun, Ning Han\*, Xue Li, Qing Wang, Kuizhao Sun, Weimeng Si, Fagang Wang\*, Xiaolin Zhao\*, Awais Bokhari, Muhammad Mubashir, Lai Fatt Chuah\*, **Pau Loke Show\***. (2023) "Novel highly active and selective CoNSC efficient ORR catalyst derived from in-situ egg gel pyrolysis" *Fuel*, 333, 126432. [Accepted 18 October 2022, IF: 8.035(2021)]
51. Mamoona Munir, Muhammad Saeed, Mushtaq Ahmad\*, Amir Waseem, Mustafa Alsaady, Saira Asif\*, Anas Ahmed, Mohd Shariq Khan, Awais Bokhari, Muhammad Mubashir, Lai Fatt Chuah\*, **Pau Loke Show\***. (2023) "Cleaner production of biodiesel from novel non-edible seed oil (*Carthamus lanatus* L.) via highly reactive and recyclable green nano CoWO<sub>3</sub>@rGO composite in context of green energy adaptation" *Fuel*, 332, 126265. [Accepted 7 October 2022, IF: 8.035(2021)]
52. Yustina M Pusparizkita\*, Christian Aslan, Wolfgang W Schmahl, Hary Devianto, Ardiyan Harimawan, Tjandra Setiadi, Yan Jer Ng, Athanasius P Bayuseno, **Pau Loke Show**. (2023) "Microbiologically influenced corrosion of the ST-37 carbon steel tank by *Bacillus licheniformis* present in biodiesel blends" *Biomass and Bioenergy*, 168, 106653. [Accepted 13 November 2022, IF: 5.774(2021)]
53. Partha Pratim Mondal, Abhinav Galodha, Vishal Kumar Verma, Vijai Singh, **Pau Loke Show**, Mukesh Kumar Awasthi, Brejesh Lall, Sanya Anees, Katrin Pollmann, Rohan Jain\*. (2023) "Review on machine learning-based bioprocess optimization, monitoring, and control systems" *Bioresource Technology*, 370, 128523. [Accepted 20 December 2022, IF: 11.889(2021)]
54. Rewati Dixit, Khushal Khambhati, Kolli Venkata Supraja, Vijai Singh, Franziska Lederer, **Pau-Loke Show**, Mukesh Kumar Awasthi, Abhinav Sharma, Rohan Jain\*. (2023) "Application of machine learning on understanding biomolecule interactions in cellular machinery" *Bioresource Technology*, 370, 128522. [Accepted 20 December 2022, IF: 11.889(2021)]
55. Soheil Valizadeh, Yasin Khani, Hoesuk Yim, Suhyeong Chai, Dongwon Chang, Abid Farooq, **Pau-Loke Show**, Byong-Hun Jeon, Moonis Ali Khan, Sang-Chul Jung, Young-Kwon Park\*. (2023) "H<sub>2</sub> generation from steam gasification of swine manure over nickel-loaded perovskite oxides catalysts" *Environmental Research*, 219, 115070. [Accepted 13 December 2022, IF: 8.431(2021)]
56. Guojie Song, Chihe Sun\*, Yun Hu, Chen Wang, Changlei Xia, Maobing Tu, Ezheng Zhang, **Pau-Loke Show**, Fubao Sun\*. (2023) "Construction of anhydrous two-step organosolv pretreatment of lignocellulosic biomass for efficient lignin membrane-extraction and solvents recovery" *Journal of Physics: Energy*, 5, 014015. [Accepted 19 December 2022]

57. Doris Ying Ying Tang, Kit Wayne Chew, Shir Reen Chia, Huong-Yong Ting, Yuk-Heng Sia, Francesco G Gentili, Zengling Ma, Mukesh Kumar Awasthi\*, **Pau Loke Show\***. (2023) "Triphasic partitioning of mixed Scenedesmus and Desmodesmus for nutrients' extraction and chlorophyll composition prediction for algae bloom" Environmental Technology, 1-12. [Accepted 28 October 2022, IF: 3.475(2021), Q2(155/325)]
58. Doris Ying Ying Tang, Kit Wayne Chew, Huong-Yong Ting, Yuk-Heng Sia, Francesco G Gentili, Young-Kwon Park, Fawzi Banat, Alvin B Culaba, Zengling Ma, **Pau Loke Show\***. (2023) "Application of Regression and Artificial Neural Network Analysis of Red-Green-Blue Image Components in Prediction of Chlorophyll Content in Microalgae" Bioresource Technology, 370, 128503. [Accepted 14 December 2022, IF: 11.889(2021)]
59. Vivekananda Budamagunta, Nowsheen Shameem, Sivaraj Irusappan, Javid A Parray, Merin Thomas, Santhosh Marimuthu, Rangasamy Kirubakaran, KN Arul Jothi\*, RZ Sayyed\*, **Pau Loke Show\***. (2023) "Nanovesicle and extracellular polymeric substance synthesis from the remediation of heavy metal ions from soil" Environmental Research, 219, 114997. [Accepted 3 December 2022, IF: 8.431(2021)]
60. Nitin Kumar Singh\*, Manish Yadav, Vijai Singh, Hirendrasinh Padhiyar, Vinod Kumar, Shashi Kant Bhatia, **Pau-Loke Show**. (2023) "Artificial intelligence and machine learning-based monitoring and design of biological wastewater treatment systems" Bioresource Technology, 369, 128486. [Accepted 11 December 2022, IF: 11.889(2021)]
61. Yujin Hwang, Young-Min Kim, Jung Eun Lee, Gwang Hoon Rhee, **Pau-Loke Show**, Kun-Yi Andrew Lin, Young-Kwon Park\*. (2023) "Catalytic removal of 2-butanone with ozone over porous spent fluid catalytic cracking catalyst" Environmental Research, 219, 115071. [Accepted 13 December 2022, IF: 8.431(2021)]
62. Mahendra Kadiri, Nakkeeran Sevugapperumal, Saranya Nallusamy, Janani Ragunathan, Malathi Varagur Ganesan, Saleh Alfarraj, Mohammad Javed Ansarif, RZ Sayyed\*, Hooi Ren Lim, **Pau Loke Show\***. (2023) "Pan-genome analysis and molecular docking unveil the biocontrol potential of Bacillus velezensis VB7 against Phytophthora infestans" Microbiological Research, 268, 127277. [Accepted 6 December 2022, IF: 5.070(2021), Q2(43/158)]
63. Jun Wei Roy Chong, Kuan Shiong Khoo, Kit Wayne Chew, Dai-Viet N Vo, Deepanraj Balakrishnan, Fawzi Banat, Heli Siti Halimatul Munawaroh, Iwamoto Koji, **Pau Loke Show\***. (2023) "Use of image processing and digital algorithm for microalgae identification" Bioresource Technology, 369, 128418. [Accepted 11 November 2022, IF: 11.889(2021)]
64. Amit Kumar, Saurabh Mishra, Rajiv Pandey, Zhi Guo Yu, Munesh Kumar, Kuan Shiong Khoo\*, Tarun Kumar Thakur\*, **Pau Loke Show\***. (2023) "Microplastics in terrestrial ecosystems: Unignorable impacts on soil characterises, nutrient storage and its cycling. TrAC Trends in Analytical Chemistry, 158, 116869. [Accepted 30 November 2022]
65. Tjandra Chrismadha, Awalina Satya, Ika Atman Satya, Rosidah Rosidah, Azalea Dyah Maysarah Satya, Ratih Pangestuti, Ardiyan Harimawan, Tjandra Setiadi\*, Kit Wayne Chew, **Pau Loke Show\***. (2023) "Outdoor Inclined Plastic Column Photobioreactor: Growth, and Biochemicals Response of Arthrospira platensis Culture on Daily Solar Irradiance in a Tropical Place" Metabolites, 12, 1199. [Accepted 25 November 2022, IF: 5.581(2021)]
66. Zahidul Islam Rony, M Mofijur\*, MM Hasan, MG Rasul, MI Jahirul, Shams Forruque Ahmed, MA Kalam, Irfan Anjum Badruddin, TM Yunus Khan, **Pau-Loke Show\***. (2023) "Alternative fuels to reduce greenhouse gas emissions from marine transport and promote UN sustainable development goals" Fuel, 338, 127220. [Accepted 18 December 2022, IF: 8.035(2021)]
67. Yujeong Jeong, Shreyanka Shankar Naik, Yiseul Yu, Jayaraman Theerthagiri, Seung Jun Lee,

- Pau Loke Show**, Hyun Chul Choi\*, Myong Yong Choi\*. (2023) "Ligand-free monophasic CuPd alloys endow boosted reaction kinetics toward energy-efficient hydrogen fuel production paired with hydrazine oxidation" *Journal of Materials Science & Technology*, 143, 20-29. [Accepted 27 September 2022, IF: 10.320(2021)]
68. Nguyen Thi Trung\*, Nguyen Thi Thao, Nguyen Sy Le Thanh, Nguyen Phuong Dai Nguyen, Nguyen Thi Anh Tuyet, Nguyen Tien Cuong, Sook Sin Chan, Kuan Shiong Khoo\*, **Pau Loke Show\***. (2023) "Antifungal activity of secondary metabolites purified from *Bacillus subtilis* isolated in Vietnam and evaluated on in vitro and in vivo models" *International Biodeterioration & Biodegradation*, 179, 105558. [Accepted 18 December 2022, IF: 4.907(2021)]
69. Shurooq T Al-Humairi, Jonathan GM Lee, Adam P Harvey, Ali Dawood Salman, Tatjana Juzsakova, B Van\*, Phuoc-Cuong Le\*, D Duong La, Arvind Kumar Mungray, **Pau Loke Show\***, D Duc Nguyen\*. (2023) "A foam column system harvesting freshwater algae for biodiesel production: An experiment and process model evaluations" *Science of The Total Environment*, 862, 160702. [Accepted 1 December 2022, IF: 10.754(2021)]
70. Iqra Mahboob, Sumeer Shafique, Iqrash Shafiq, Parveen Akhter, Artem S Belousov, **Pau-Loke Show**, Young-Kwon Park\*, Murid Hussain\*. (2023) "Mesoporous LaVO<sub>4</sub>/MCM-48 nanocomposite with visible-light-driven photocatalytic degradation of phenol in wastewater" *Environmental Research*, 218, 114983. [Accepted 29 November 2022, IF: 8.431(2021)]
71. Jiu Li Chong, Kit Wayne Chew\*, Angela Paul Peter, Huong Yong Ting, **Pau Loke Show\***. (2023) "Internet of Things (IoT)-Based Environmental Monitoring and Control System for Home-Based Mushroom Cultivation" *Biosensors*, 13, 98. Accepted 4 January 2023, IF: 5.743(2021)]
72. Jun Wei Roy Chong, Kuan Shiong Khoo\*, Kit Wayne Chew, Huong-Yong Ting, **Pau Loke Show\***. (2023) "Trends in digital image processing of isolated microalgae by incorporating classification algorithm" *Biotechnology Advances*, 63, 108095. [Accepted 1 January 2023, IF: 17.681(2021)]
73. Shrasti Vasistha, Anwasha Khanra, Monika Prakash Rai, Shakeel Ahmad Khan, Zengling Ma\*, Heli Siti Halimatul Munawaroh, Doris Ying Ying Tang, **Pau Loke Show\***. (2023) "Exploring the Pivotal Significance of Microalgae-Derived Sustainable Lipid Production: A Critical Review of Green Bioenergy Development" *Energies*, 16, 531. [Accepted 29 December 2022, IF: 3.252(2021)]
74. Abdullah Bin Mahfouz, Abulhassan Ali\*, Mark Crocker, Anas Ahmed, Rizwan Nasir, **Pau Loke Show\***. (2023) "Neural-Network-Inspired Correlation (N2IC) Model for Estimating Biodiesel Conversion in Algal Biodiesel Units, Fermentation, 9, 47. [Accepted 3 January 2023, IF: 5.123(2021)]
75. Windy Heristika, Andriati Ningrum\*, Helimatul Munawaroh, Heli Siti, **Pau Loke Show\***. (2023) "Development of Composite Edible Coating from Gelatin-Pectin Incorporated Garlic Essential Oil on Physicochemical Characteristics of Red Chili (*Capsicum annum* L.)" *Gels*, 9, 49. [Accepted 4 January 2023, IF:4.432(2021)]
76. Doris Ying Ying Tang, Dinh-Toi Chu, Sakhon Ratchahat, Fawzi Banat, Kit Wayne Chew\*, Francesco G Gentili, **Pau Loke Show\***. (2023) "Investigation and Screening of Mixed Microalgae Species for Lipase Production and Recovery using Liquid Biphasic Flotation Approach" *Journal of the Taiwan Institute of Chemical Engineers*, 142, 104646. [Accepted 12 December 2022, IF: 5.477(2021)]
77. Yustina M Pusparizkita\*, Christian Aslan, Wolfgang W Schmahl, Hary Devianto, Ardiyan Harimawan, Tjandra Setiadi, Yan Jer Ng, Athanasius P Bayuseno, **Pau Loke Show**. (2023) "Microbiologically influenced corrosion of the ST-37 carbon steel tank by *Bacillus licheniformis* present in biodiesel blend" *Biomass and Bioenergy*, 168, 106653. [Accepted 13 November 2022,

IF: 5.774(2021)]

78. Tariq Aziz, Fazal Haq\*, Arshad Farid, Mehwish Kiran, Shah Faisal, Asmat Ullah, Naveed Ullah, Awais Bokhari, Muhammad Mubashir\*, Lai Fatt Chuah\*, **Pau Loke Show\***. (2023) "Challenges associated with cellulose composite material: Facet engineering and prospective" Environmental Research, 115429. [Accepted 3 February 2023, IF:8.431(2021)]
79. Tausif Ahmad, Jibrán Iqbal, Mohamad Azmi Bustam, Muhammad Babar, Muhammad Bilal Tahir, Muhammad Sagir, Muhammad Irfan, Hafiz Muhammad Anwaar Asghar, Afaq Hassan, Asim Riaz, Lai Fatt Chuah\*, Awais Bokhari\*, Muhammad Mubashir\*, **Pau Loke Show\***. (2023) "Performance evaluation of phosphonium based deep eutectic solvents coated cerium oxide nanoparticles for CO<sub>2</sub> capture" Environmental Research, 22, 115314. [Accepted 14 January 2023, IF:8.431(2021)]
80. Nisit Watthanasakphuban, Luan Van Nguyen, Yu-Shen Cheng, **Pau-Loke Show**, Malinee Sririyanun, Mattheos Koffas, Kittipong Rattanaporn\*. (2023) "Development of a Molasses-Based Medium for Agrobacterium tumefaciens Fermentation for Application in Plant-Based Recombinant Protein Production" Fermentation, 9, 149. Accepted 31 January 2023, IF: 5.123(2021)]
81. Lai Fatt Chuah\*, Kasypi Mokhtar, Siti Marsila Mhd Ruslan, Anuar Abu Bakar, Mohd Azhafiz Abdullah, Nor Hasni Osman, Awais Bokhari, Muhammad Mubashir, **Pau Loke Show\***. (2023) "Implementation of the energy efficiency existing ship index and carbon intensity indicator on domestic ship for marine environmental protection" Environmental Research, 115348. [Accepted 21 January 2023, IF: 8.431(2021)]
82. Anas Ahmed\*, Abulhassan Ali, Muhammad Mubashir, Hooi Ren Lim, Kuan Shiong Khoo\*, **Pau Loke Show\***. (2023) "Process optimization and simulation of biodiesel synthesis from waste cooking oil through supercritical transesterification reaction without catalyst" Journal of Physics: Energy. [Accepted 27 January 2023, IF: 7.528(2021)]
83. Swati Sharma, Surajbhan Sevda, **Pau Loke Show**, Tejraj M Aminabhavi, Vijay Kumar Garlapati\*. (2023) "Biofabricated growth kinetics and macromolecule production potential of food and agri-wastes as a D. armatus nutrient media" Environmental Research, 115320. [Accepted 16 January 2023, IF:8.431(2021)]
84. Tariq Aziz, Arshad Farid\*, Fazal Haq, Mehwish Kiran, Naveed Ullah, Shah Faisal, Amjad Ali, Farman Ullah Khan, Siming You, Awais Bokhari, Muhammad Mubashir, Lai Fatt Chuah\*, **Pau Loke Show\***. (2023) "Role of silica-based porous cellulose nanocrystals in improving water absorption and mechanical properties" Environmental Research, 222, 115253. [Accepted 7 January 2023, IF: 8.431(2021)]
85. Tengku Nilam Baizura Tengku Ibrahim, Nur Azalina Suzianti Feisal, Noor Haziqah Kamaludin, Wai Yan Cheah, Vivien How, Amit Bhatnagar, Zengling Ma, **Pau Loke Show\***. (2023) "Biological Active Metabolites from Microalgae for Healthcare and Pharmaceutical Industries: A Comprehensive Review" Bioresource Technology, 372, 128661. Accepted 18 January 2023, IF: 11.889(2021)]
86. Marttin Paulraj Gundupalli, Kraipat Cheenkachorn, Santi Chuetor, Suchata Kirdponpattara, Sathish Paulraj Gundupalli, **Pau-Loke Show**, Malinee Sririyanun\*. (2023) "Assessment of pure, mixed and diluted deep eutectic solvents on Napier grass (Cenchrus purpureus): Compositional and characterization studies of cellulose, hemicellulose and lignin CarbohydratePolymers, 306, 120599. [Accepted 15 January 2023, IF: 10.723(2021)]
87. Mabkhoot Alsaieri, Awais Bokhari, Lai Fatt Chuah, Muhammad Mubashir, Farid A Harraz, Abdulaziz Ibrahim Almohana, **Pau Loke Show\***, Mukesh Kumar Awasthi\*, Moustafa A Rizk.

- (2023) "Synthesis of methyl esters from Hippophae rhamnoides via pilot scale hydrodynamic cavitation intensification reactor" *Renewable Energy*, 205, 238-247. [Accepted 19 January 2023, IF: 8.634(2021)]
88. AS Sekarina, HSH Munawaroh, E Susanto, **PL Show**, A Ningrum\*. (2023). "Effects of edible coatings of chitosan-fish skin gelatine containing black tea extract on quality of minimally processed papaya during refrigerated storage" *Carbohydrate Polymer Technologies and Applications*, 5, 100287.
  89. Soheil Valizadeh, Yasin Khani, Abid Farooq, Gopalakrishnan Kumar, **Pau Loke Show**, Wei-Hsin Chen, See Hoon Lee, Young-Kwon Park\*. (2023) "Microalgae gasification over Ni loaded perovskites for enhanced biohydrogen generation" *Bioresource Technology*, 372, 128638. [Accepted 15 January 2023, IF: 11.889(2021)]
  90. S Thanigaivel, Saravanan Rajendran\*, Lalitha Gnanasekaran, Kit Wayne Chew, Dang Thuan Tran, Hoang-Dung Tran, Nguyen Khoi Nghia, **Pau Loke Show\***. (2023) "Nanotechnology for improved production of algal biofuels: a review" *Environmental Chemistry Letters*, 1-17. [IF: 0.92(2021)]
  91. Heli Siti Halimatul Munawaroh\*, Riska Nur Pratiwi, Gun Gun Gumilar, Siti Aisyah, Siti Rohilah, Anisa Nurjanah, Andriati Ningrum, Eko Susanto, Amelinda Pratiwi, Ni Putu Yunika Arindita, Larasati Martha, Kit Wayne Chew, **Pau-Loke Show\***. (2023) "Synthesis, modification and application of fish skin gelatin-based hydrogel as sustainable and versatile bioresource of antidiabetic peptide" *International Journal of Biological Macromolecules*, 231, 123248. [Accepted 9 January 2023, IF: 8.025(2021)]
  92. Kuan Shiong Khoo, Imran Ahmad, Kit Wayne Chew, Koji Iwamoto, Amit Bhatnagar\*, **Pau Loke Show\***. (2023) "Enhanced microalgal lipid production for biofuel using different strategies including genetic modification of microalgae: A review" *Progress in Energy and Combustion Science*, 96, 101071. [Accepted 1 January 2023, IF: 35.339(2021)]
  93. Aifang Li, Qianfang Wang, Yu Huang, Lina Hu, Shuxuan Li, Qianqian Wang, Yangfan Yu, Haizhou Zhang, Doris Ying Ying Tang, **Pau Loke Show\***, Shuying Feng\*. (2023) "Can egg yolk antibodies terminate the CSBV infection in apiculture?" *Virus Research*, 328, 199080. [Accepted 20 February 2023, IF: 6.286(2021)]
  94. Doris Ying Ying Tang, Kit Wayne Chew\*, Francesco G Gentili, Tonni Agustiono Kurniawan, Young-Kwon Park, Heli Siti Halimatul Munawaroh, Saravanan Rajendran, Zengling Ma, Sarah Alharthi, Walaa F Alsanie, **Pau Loke Show\***. (2023) "Performance of Bleaching Clays in Dechlorophyllisation of Microalgal Oil: A Comparative Study" *Process Biochemistry*. [Accepted 5 March 2023, IF: 4.885(2021)]
  95. Maimona Saeed, Noshin Ilyas\*, Fatima Bibi, Sumera Shabir, Krish Jayachandran, RZ Sayyed, Ali A Shati, Mohammad Y Alfaifi, **Pau Loke Show**, Zarrin Fatima Rizvi. (2023) "Development of novel kinetic model based on microbiome and biochar for in-situ remediation of total petroleum hydrocarbons (TPHs) contaminated soil" *Chemosphere*, 138311. [Accepted 3 March , 2023, IF: 8.943(2021)]
  96. Ibrahim Muntaqa Tijjani Usman, Yeek-Chia Ho\*, Lavania Baloo, Man-Kee Lam, **Pau-Loke Show**, Wawan Sujarwo. (2023) "Comprehensive Review of Modification, Optimisation, and Characterisation Methods Applied to Plant-Based Natural Coagulants (PBNs) for Water and Wastewater Treatment" *Sustainability*, 15, 4484. [Accepted 6 February 2023, IF: 3.889(2021)]
  97. Imran Ahmad, Norhayati Abdullah\*, Iwamoto Koji, Ali Yuzir, Mohd Danish Ahmad, Nova Rachmadona, Anas Al-Dailami, **Pau Loke Show\***, Kuan Shiong Khoo\*. (2023) "Micro and macro analysis of restaurant wastewater containing fat, oil, grease (FOG): An approach based on

- prevention, control, and sustainable management" *Chemosphere*, 138236. [Accepted 22 February 2023, IF: 8.943(2021)]
98. Sugenendran Supramani, Nur Ardiyana Rejab, Zul Ilham, Rahayu Ahmad\*, **Pau-Loke Show**, Mohamad Faizal Ibrahim, Wan Abd Al Qadr Imad Wan-Mohtar\*. (2023) "Performance of Biomass and Exopolysaccharide Production from the Medicinal Mushroom *Ganoderma lucidum* in a New Fabricated Air-L-Shaped Bioreactor (ALSB), *Processes*, 11, 670. [Accepted 20 January 2023, IF: 3.352(2021)]
  99. Nurul Syahirah Mat Aron, Kit Wayne Chew\*, Zengling Ma, Yang Tao, Malinee Sriariyanun, Inn Shi Tan, Cường Nguyễn Mạnh, Ao Xia, Tonni Agustiono Kurniawan, **Pau Loke Show\***. (2023) "Lipid Recovery from Microalgae Biomass Using Sugaring-Out Extraction in Liquid Biphasic Flotation System" *Fermentation*, 9, 198. [Accepted 15 February 2023, IF: 5.123(2021)]
  100. Dian Wahyu Wardani, Andriati Ningrum\*, Nurul Vanidia, Heli Siti Helimatul Munawaroh, Eko Susanto, **Pau-Loke Show**. (2023) "In silico and in vitro assessment of yellowfin tuna skin (*Thunnus albacares*) hydrolysate antioxidation effect" *Food Hydrocolloids for Health*, 3, 100126. [Accepted 17 February 2023]
  101. Abdul Hai, G Bharath, Muhamad Fazly Abdul Patah, Wan Mohd Ashri Wan Daud, K Rambabu, **PauLoke Show**, Fawzi Banat\*. (2023) "Machine learning models for the prediction of total yield and specific surface area of biochar derived from agricultural biomass by pyrolysis" *Environmental Technology & Innovation*, 30, 103071. [Accepted 13 February 2023, IF: 7.758(2021)]
  102. [Retracted] R Suresh\*, Saravanan Rajendran, Lalitha Gnanasekaran\*, **Pau Loke Show**, Wei-Hsin Chen, Matias Soto-Moscoso. (2023) "Modified poly (vinylidene fluoride) nanomembranes for dye removal from water–A review" *Chemosphere*, 322, 138152. [Accepted 12 February 2023, IF: 8.943(2021)]
  103. Wai Yan Cheah\*, Siti Dina Razman Pahri, See Too Kay Leng, AC Er, **Pau Loke Show\***. (2023) "Circular bioeconomy in palm oil industry: Current practices and future perspectives" *Environmental Technology & Innovation*, 103050. [Accepted 2 February 2023, IF: 7.758(2021)]
  104. Huma Naz\*, RZ Sayyed\*, Riyaj Uddin Khan, Asma Naz, Owais Ali Wani, Ayesha Maqsood, Samiya Maqsood, Ali Fahad, Shabbir Ashraf, **Pau Loke Show\***. (2023) "Mesorhizobium improves chickpea growth under chromium stress and alleviates chromium contamination of soil" *Journal of Environmental Management*, 338,117779.[Accepted 19 March 2023, IF: 8.910 (2021)]
  105. Ibrahim Muntaqa Tijjani Usman, Foo-Wei Lee\*, Yeek-Chia Ho\*, Han-Ping Khaw, Qi-Wen Chong, Yong-Ming Kee, Jun-Wei Lim, **Pau-Loke Show**. (2023) "Evaluation of *Annona diversifolia* Seed Extract as A Natural Coagulant for Water Treatment" *Sustainability*, 15, 6324. [Accepted 28 March 2023, IF: 3.889(2021)]
  106. Prabhakar Sharma, Akshay Jain, Bhaskor Jyoti Bora, Deepanraj Balakrishnan\*, **Pau Loke Show**, Rameshprabu Ramaraj, Ümit Ağbulut, Kuan Shiong Khoo. (2023) "Application of modern approaches to the synthesis of biohydrogen from organic waste" *International Journal of Hydrogen Energy*. [Accepted 4 March 2023, IF: 7.139(2021)]
  107. Wai Yan Cheah\*, Ah Choy Er, Kadaruddin Aiyub, Nazlina Haiza Mohd Yasin, SL Ngan, Kit Wayne Chew, Kuan Shiong Khoo, Tau Chuan Ling, Joon Ching Juan, Zengling Ma, **Pau Loke Show\***. (2023) "Current status and perspectives of algae-based bioplastics: A reviewed potential for sustainability" *Algal Research*, 103078. [Accepted 30 March 2023, IF: 5.276(2021)]
  108. Ali Maged\*, Ahmed M Elgarahy, Nils H Haneklaus, Ashok Kumar Gupta, **Pau-Loke Show**, Amit Bhatnagar. (2023) "Sustainable functionalized smectitic clay-based nano hydrated zirconium oxides for enhanced levofloxacin sorption from aqueous medium" *Journal of Hazardous Materials*, 131325. [Accepted 29 March 2023, IF: 14.224(2021)]

109. Jawaher AlYammahi, K Rambabu, A Thanigaivelan, Shadi W Hasan, Hanifa Taher, **Pau Loke Show\***, Fawzi Banat. (2023) "Production and characterization of camel milk powder enriched with date extract" *LWT*, 179, 114636. [Accepted 4 March 2023, IF: 6.056(2021)]
110. **Pau-Loke Show\***, Kit Wayne Chew, Wee-Jun Ong, Sunita Varjani, Joon Ching Juan. (2023) "New trends in nanobiotechnology" *Beilstein Journal of Nanotechnology*, 14, 377-379. [Accepted 02 March 2023, IF: 3.272(2021)]
111. Embalil Mathachan Aneesh, AN Anoopkumar, Aravind Madhavan, Raveendran Sindhu\*, Parameswaran Binod, Mohammed Kuddus, Hector A Ruiz, Ashok Pandey, Mukesh Kumar Awasthi\*, **Pau Loke Show\***. (2023) "Inferences on bioengineering perspectives and circular economy to tackle the emerging pollutants" *Environmental Technology & Innovation*, 103116. [Accepted 16 March 2023, IF: 7.758(2021)]
112. Babu Dharmalingam, Santhoshkumar Annamalai, Sukunya Areeya, Kittipong Rattanaporn, Keerthi Katam, **Pau-Loke Show**, Malinee Sriariyanun\*. (2023) "Bayesian Regularization Neural Network-Based Machine Learning Approach on Optimization of CRDI-Split Injection with Waste Cooking Oil Biodiesel to Improve Diesel Engine Performance" *Energies*, 16, 2805. [Accepted 14 March 2023, IF: 3.252(2021)]
113. Jihan Nabillah Hanun, Fahir Hassan, Ledy Theresia, How-Ran Chao, Ha Manh Bu, Saravanan Rajendran, Navish Kataria, Chi-Fu Yeh, **Pau Loke Show**, Kuan Shiong Khoo\*, Jheng-Jie Jiang\*. (2023) "Weathering effect triggers the sorption enhancement of microplastics against oxybenzone" *Environmental Technology & Innovation*, 30, 103112. [Accepted 13 March 2023, IF: 7.758(2021)]
114. Faisal Ali, Saira Mehmood, Adnan Ashraf, Aimon Saleem, Umer Younas\*, Awais Ahmad\*, Muhammad Pervaiz Bhatti\*, Gaber E Eldesoky, Ahmed Muteb Aljuwayid, Mohamed A Habila, Awais Bokhari, Muhammad Mubashir, Lai Fatt Chuah, Jun Wei Roy Chong, **Pau Loke Show\***. (2023) "Ag-Cu Embedded SDS Nanoparticles for Efficient Removal of Toxic Organic Dyes from Water Medium" *Industrial & Engineering Chemistry Research*, 62, 4765-4777. [Accepted 1 March 2023, IF: 4.326(2021)]
115. Trinh Thi Phuong Thao, My-Le Nguyen-Thi, Nguyen Duc Chung\*, Ooi Chien Wei, Seung-Moon Park, Tran Thuy Lan, Hoang Tan Quang, Kuan Shiong Khoo, **Pau Loke Show\***, Nguyen Duc Huy. (2023) "Microbial biodegradation of recalcitrant synthetic dyes from textile-enriched wastewater by *Fusarium oxysporum*" *Chemosphere*, 138392. [Accepted 11 March 2023, IF: 8.943(2021)]
116. Sandeep Kumar, Sangita Yadav, Navish Kataria\*, Amit Kumar Chauhan, Seema Joshi, Renuka Gupta, Parmod Kumar, Jun Wei Roy Chong, Kuan Shiong Khoo\*, **Pau Loke Show\***. (2023) "Recent Advancement in Nanotechnology for the Treatment of Pharmaceutical Wastewater: Sources, Toxicity, and Remediation Technology" *Current Pollution Reports*, 1-33. [Accepted 6 February 2023, IF: 8.097(2021)]
117. Maria Ameen, Muhammad Zafar, Mohamed Fawzy Ramadan, Mushtaq Ahmad\*, Trobjon Makhkamov, Awais Bokhari\*, Muhammad Mubashir, Lai Fatt Chuah\*, **Pau Loke Show\***. (2023) "Conversion of novel non-edible *Bischofia javanica* seed oil into methyl ester via recyclable zirconia-based phyto-nanocatalyst: A circular bioeconomy approach for eco-sustenance" *Environmental Technology & Innovation*, 30, 103101. [Accepted 9 March 2023, IF: 7.758(2021)]
118. Raj Kumar Oruganti, Alka Pulimoottil Biji, Tiemenla Lanuyanger, **Pau Loke Show**, Malinee Sriariyanun, Venkata KK Upadhyayula, Venkataramana Gadhamshetty, Debraj Bhattacharyya\*. (2023) "Artificial intelligence and machine learning tools for high-performance microalgal wastewater treatment and algal biorefinery: A critical review" *Science of The Total Environment*, 876, 162797. [Accepted 7 March 2023, IF: 10.754(2021)]
119. Ümit Ağbulut, Ranjna Sirohi, Eric Lichtfouse, Wei-Hsin Chen, Christophe Len, **Pau Loke Show**, Anh Tuan Le, Xuan Phuong Nguyen, Anh Tuan Hoang\*. (2023) "Microalgae bio-oil

- production through pyrolysis and hydrothermal liquefaction: Mechanism and characteristics" *Bioresource Technology*, 376, 128860. [Accepted 7 March 2023, IF: 11.889(2021)]
120. Adila Fazliyana Aili Hamzah, Muhammad Hazwan Hamzah\*, Hasfalina Che Man, Nur Syakina Jamali, Shamsul Izhar Siajam, **Pau Loke Show**. (2023) "Subcritical Water Pretreatment for Anaerobic Digestion Enhancement: A Review." *Pertanika Journal of Science & Technology*, 31. [Accepted: 12 July 2022]
  121. Abdullah Bin Mahfouz, Abulhassan Ali\*, Mohammad Mubashir, Abdulkader S Hanbazazah, Mustafa Alsaady, **Pau Loke Show\***. (2023) "Viscosity of Nanofluids Comprises of Titania Nanotubes and Ethylene Glycol" *Water: Process Modeling and Optimization Using Response Surface Methodology*, 63.
  122. Ibrahim Muntaqa Tijjani Usman, Foo-Wei Lee\*, Yeek-Chia Ho\*, Han-Ping Khaw, Qi-Wen Chong, Yong-Ming Kee, Jun-Wei Lim, **Pau-Loke Show**. (2023) "Evaluation of Annona diversifolia Seed Extract as A Natural Coagulant for Water Treatment" *Sustainability*, 15, 1-13. [Accepted: 28 March 2023, IF: 3.889(2021)]
  123. Rupesh Maurya, Gargi Bhattacharjee, Khushal Khambhati, Nisarg Gohil, Priyanka Singh, Indra Mani, Dinh-Toi Chu, Suresh Ramakrishna, **Pau-Loke Show**, Vijai Singh\*. (2023) "Amyloid precursor protein in Alzheimer's disease" *Progress in Molecular Biology and Translational Science*, 196, 261-270. [IF: 4.025(2021)]
  124. Abdullah Bin Mahfouz, Abulhassan Ali\*, Muhammad Mubashir, Abdulkader S Hanbazazah, Mustafa Alsaady, **Pau Loke Show\***. (2023) "Optimization of viscosity of titania nanotubes ethylene glycol/water-based nanofluids using response surface methodology" *Fuel*, 347, 128334. [Accepted 4 April 2023, IF: 8.035(2021)]
  125. Wangliang Li, Rohit Gupta, Zhikai Zhang, Lixia Cao, Yanqing Li, **Pau Loke Show**, Vijai Kumar Gupta, Sunil Kumar, Kun-Yi Andrew Lin, Sunita Varjani, Stephanie Connelly, Siming You\*. (2023) "A review of high-solid anaerobic digestion (HSAD): From transport phenomena to process design" *Renewable and Sustainable Energy Reviews*, 180, 113305. [Accepted 18 April 2023, IF: 16.799(2021)]
  126. Swati Sharma, **Pau Loke Show**, Tejraj M Aminabhavi, Surajbhan Sevda, Vijay Kumar Garlapati\*. (2023) "Valorization of environmental-burden waste towards microalgal metabolites production" *Environmental Research*, 227, 115320. [Accepted 16 January 2023, IF: 8.431(2021)]
  127. Uganeeswary Suparmaniam, Man Kee Lam\*, Hemamalini Rawindran, Jun Wei Lim, Khairul Faizal Pa'ee, Kelly Tau Len Yong, Inn Shi Tan, Bridgid Lai Fui Chin, **Pau Loke Show**, Keat Teong Lee. (2023) "Optimizing extraction of antioxidative biostimulant from waste onion peels for microalgae cultivation via response surface model" *Energy Conversion and Management*, 286, 117023. [Accepted 6 April 2023, IF: 11.533(2021)]
  128. Yaleeni Kanna Dasan, Man Kee Lam\*, Yee Ho Chai, Jun Wei Lim, Yeek Chia Ho, Inn Shi Tan, Sie Yon Lau, **Pau Loke Show**, Keat Teong Lee. (2023) "Unlocking the Potential of Microalgae Bio-Factories for Carbon Dioxide Mitigation: A Comprehensive Exploration of Recent Advances, Key Challenges, and Energy-Economic Insights" *Bioresource Technology*, 380, 129094. [Accepted 23 April 2023, IF: 11.889(2021)]
  129. Kai Yao Tan, Sze Shin Low\*, Sivakumar Manickam, Zengling Ma\*, Fawzi Banat, Heli Siti Halimatul Munawaroh, **Pau Loke Show\***. (2023) "Prospects of Microalgae in Nutraceuticals Production with Nanotechnology Applications" *Food Research International*, 112870. [Accepted 18 April 2023, IF: 7.425(2021)]
  130. R Suresh, Lalitha Gnanasekaran, Saravanan Rajendran\*, Matias Soto-Moscoso, Wei-Hsin Chen, **Pau Loke Show**, Kuan Shiong Khoo\*. (2023) "Application of nanocomposites in integrated photocatalytic techniques for water pollution remediation" *Environmental Technology & Innovation*, 31, 103149. [Accepted 10 April 2023, IF: 7.758(2021)]

131. Dehua Zhao, Wai Yan Cheah\*, Sai Hin Lai\*, Eng-poh Ng, Kuan Shiong Khoo, Pau Loke Show, Tau Chuan Ling. (2023) "Symbiosis of microalgae and bacteria consortium for heavy metal remediation in wastewater" *Journal of Environmental Chemical Engineering*, 11, 109943. [Accepted 15 April 202, IF: 7.968(2021)]
132. Aifang Li, Qianfang Wang, Yu Huang, Lina Hu, Shuxuan Li, Qianqian Wang, Yangfan Yu, Haizhou Zhang, Doris Ying Ying Tang, Pau Loke Show\*, Shuying Feng\*. (2023) "Can egg yolk antibodies terminate the CSBV infection in apiculture?" *Virus research*, 328, 199080. [Accepted 20 February 2023, IF: 6.286(2021)]
133. Prabhakar Sharma, Avdhesh Kr Sharma, Deepanraj Balakrishnan, Arthi Manivannan, Wen Yi Chia, Mukesh Kumar Awasthi, Pau Loke Show\*. (2023) "Model-prediction and optimization of the performance of a biodiesel-Producer gas powered dual-fuel engine" *Fuel*, 348, 128405. [Accepted 10 April 2023, IF: 8.035(2021)]
134. Chongqing Wang, **Pau Loke Show**, Xiuxiu Zhang, Yijun Cao\*, Yasser Vasseghian\*. (2023) "Green catalyst derived from zero-valent iron onto porous biochar for removal of Rhodamine B from aqueous solution in a Fenton-like process" *Carbon Letters*, 1-11. [IF: 3.117(2021)]
135. Arpita, Parmod Kumar, Navish Kataria, Nishita Narwal, Sandeep Kumar\*, Ravi Kumar\*, Kuan Shiong Khoo\*, **Pau Loke Show\***. (2023) "Plastic Waste-Derived Carbon Dots: Insights of Recycling Valuable Materials Towards Environmental Sustainability" *Current Pollution Reports*, 1-21. [Accepted 26 April 2023, IF: 8.097(2021)]
136. Che Mohd Hafizuddieen Che Mahadi, Kasypi Mokhtar\*, Lai Fatt Chuah\*, Suzanna Razali Chan, Mohammed Ismail Russtam Suhrab, Muhammad Mubashir, Saira Asif\*, **Pau Loke Show**. (2023) "An organisational search and rescue performance assessment for a cleaner environment" *Cleaner Engineering and Technology*, 14, 100641. [Accepted 16 May 2023]
137. Thanh-Tri Do, Toan-Em Quach-Van, Thanh-Cong Nguyen, **Pau Loke Show**, Tran Minh-Ly Nguyen, Duc-Hoan Huynh, Dai-Long Tran, Michael Melkonian, Hoang-Dung Tran\*. (2023) "Effect of LED Illumination Cycle and Carbon Sources on Biofilms of *Haematococcus pluvialis* in Pilot-Scale Angled Twin-Layer Porous Substrate Photobioreactors" *Bioengineering*, 10, 596. [Accepted 12 May 2023, IF: 5.046(2021)]
138. Hongyan Ren, Jing Ni, Mingwei Shen, Duan Zhou, Fubao Sun, Pau Loke Show\*. (2023) "Enhanced carbon dioxide fixation of *Chlorella vulgaris* in microalgae reactor loaded with nanofiber membrane carried iron oxide nanoparticles" *Bioresource Technology*, 382, 129176. [Accepted 12 May 2023, IF: 11.889(2021)]
139. [Retracted] Olakunle Oloruntobi, Lai Fatt Chuah\*, Kasypi Mokhtar, Adel Gohari, Vincent Onigbara, Jing Xiang Chung, Muhammad Mubashir, Saira Asif\*, **Pau Loke Show**, Ning Han. (2023) "Assessing methanol potential as a cleaner marine fuel: An analysis of its implications on emissions and regulation compliance" *Cleaner Engineering and Technology*, 14, 100639. [Accepted 4 May 2023]
140. Heli Siti Halimatul Munawaroh\*, Gun Gun Gumilar, Selmi Fiqhi Khoiriah, Faradhina Salfa Nindya, Nur'aini Berliana, Siti Aisyah, Vidia Afina Nuraini, Andriati Ningrum, Eko Susanto, Larasati Martha, Isman Kurniawan, Nur Akmalia Hidayati, Kit Wayne Chew, Pau-Loke Show\*. (2023) "Valorization of *Salmo salar* Skin Waste for the Synthesis of Angiotensin Converting Enzyme-1 (ACE1) Inhibitory Peptides" *Waste and Biomass Valorization*, 1-15. [Accepted 9 April 2023, IF: 3.449]
141. Yaqian Gao, Yuhui Ge, Yunfeng Ma, Hailun Zhao, Guixing Xiao, **Pau Loke Show**, Jianqiu Chen, Ruixin Guo\*, Yanhua Liu\*. (2023) "Occurrence, Migration, and Transformation of Black Carbon in Environmental Matrix and Its Influence on the Environmental Fate of Coexisting Pollutants: A Review" *Reviews of Environmental Contamination and Toxicology*, 261, 1-19.

[Published 27 June 2023, IF: 6.0(2022)]

142. Gonggang Liu, Xiuxiu Zhang, Hongwen Liu, Zhangxing He, **Pau Loke Show**, Yasser Vasseghian\*, Chongqing Wang\*. (2023) "Biochar/layered double hydroxides composites as catalysts for treatment of organic wastewater by advanced oxidation processes: A review" *Environmental Research*, 116534. [Accepted 30 June 2023, IF: 8.3(2022)]
143. Pei En Tham, Hooi Ren Lim, Kuan Shiong Khoo\*, Kit Wayne Chew, Yee Jiun Yap, Heli Siti Halimatul Munawaroh, Zengling Ma, Saravanan Rajendran, Lalitha Gnanasekaran, **Pau Loke Show\***. (2023) "Insights of microalgae-based aquaculture feed: A review on circular bioeconomy and perspectives" *Algal Research*, 103186. [Accepted 26 June 2023, IF: 5.1(2022)]
144. Yan Jer Ng, Sook Sin Chan, Kuan Shiong Khoo\*, Heli Siti Halimatul Munawaroh, Hooi Ren Lim, Kit Wayne Chew, Tau Chuan Ling, Anbalagan Saravanan, Zengling Ma, **Pau Loke Show\***. (2023) "Recent advances and discoveries of microbial-based glycolipids: Prospective alternative for remediation activities" *Biotechnology Advances*, 108198. [Accepted 10 June 2023, IF:16.0(2022)]
145. Hongyan Ren\*, Duan Zhou, Jiawen Lu, **Pau Loke Show**, Fubao Fuelbiol Sun. (2023) "Mapping the field of microalgae CO<sub>2</sub> sequestration: a bibliometric analysis" *Environmental Science and Pollution Research*, 1-11. [Accepted 19 May 2023, IF: 5.8(2022)]
146. Busakorn Wilawan, Sook Sin Chan, Tau Chuan Ling, **Pau Loke Show**, Eng-Poh Ng, Woranart Jonglertjunya\*, Poomiwat Phadungbut, Kuan Shiong Khoo\*. (2023) "Advancement of Carotenogenesis of Astaxanthin from *Haematococcus pluvialis*: Recent Insight and Way Forward" *Molecular Biotechnology*, 1-22. [Accepted 7 May 2023, IF: 2.6(2022)]
147. Yadong Yang, Vijai Kumar Gupta, Yating Du, Mortaza Aghbashlo, **Pau Loke Show**, Junting Pan\*, Meisam Tabatabaei\*, Ahmad Rajaei\*. (2023) "Potential application of polysaccharide mucilages as a substitute for emulsifiers: A review" *International journal of biological macromolecules*, 242, 124800. [Accepted 6 May 2023, IF: 8.2(2022)]
148. Kevin Tian Xiang Tong, Inn Shi Tan\*, Henry Chee Yew Foo, **Pau Loke Show\***, Man Kee Lam, Mee Kee Wong. (2023) "Sustainable circular biorefinery approach for novel building blocks and bioenergy production from algae using microbial fuel cell" *Bioengineered*, 14, 246-289. [Accepted 11 July 2023, IF: 4.9 (2022)]
149. Wan Ting Tee, Nicholas Yung Li Loh, Billie Yan Zhang Hiew, **Pau Loke Show**, Svenja Hanson, Suyin Gan, Lai Yee Lee\*. (2023) "Evaluation of adsorption performance and mechanisms of a highly effective 3D boron-doped graphene composite for amitriptyline pharmaceutical removal" *Journal of Environmental Management*, 344, 118363. [Accepted 7 June 2023, IF: 8.7(2022)]
150. Hooi Ren Lim, Kuan Shiong Khoo\*, Kit Wayne Chew\*, Yang Tao, Ao Xia, Zengling Ma, Heli Siti Halimatul Munawaroh, Nguyen Duc Huy, **Pau Loke Show\***. (2023) "Upstream bioprocessing of *Spirulina platensis* microalgae using rainwater and recycle medium from post-cultivation for C-phycoyanin production" *Journal of the Taiwan Institute of Chemical Engineers*, 104986. [Accepted 10 June 2023, IF: 5.7(2022)]
151. Kamil Kayode Katibi\*, Mohd Zuhair Mohd Nor\*, Khairul Faezah Md Yunos, Juhana Jaafar, **Pau Loke Show**. (2023) "Strategies to Enhance the Membrane-Based Processing Performance for Fruit Juice Production: A Review" *Membranes*, 13, 679. [Accepted 4 July 2023, IF: 4.2(2022)]
152. Hooi Ren Lim, Kuan Shiong Khoo\*, Kit Wayne Chew, Michelle Yee Mun Teo, Tau Chuan Ling, Sarah Alharthi, Walaa F Alsanie, **Pau Loke Show\***. (2023) "Evaluation of Real-Time Monitoring on the Growth of *Spirulina* Microalgae: Internet-of-Things and Microalgae Technologies" *IEEE Internet of Things Journal*. [IF: 10.6(2022)]
153. Nihan Canan Ozdemir, Zeynep Bilici, Erdal Yabalak, Nadir Dizge\*, Deepanraj Balakrishnan, Kuan Shiong Khoo\*, **Pau Loke Show\***. (2023) "Physico-chemical adsorption of cationic dyes

using adsorbent synthesis via hydrochloric acid treatment and subcritical method from palm leaf biomass waste" *Chemosphere*, 139558. [Accepted 16 July 2023, IF: 8.8 (2022)]

154. K Rambabu\*, G Bharath, Muthusamy Govarthanam, P Senthil Kumar, **Pau Loke Show**, Fawzi Banat. (2023) "Bioprocessing of plastics for a sustainable environment: Progress, challenges, and prospects" *TrAC Trends in Analytical Chemistry*, 166, 117189. [Accepted 9 July 2023]
155. Ibrahim Muntaqa Tijjani Usman, Yeek-Chia Ho\*, Man-Kee Lam, **Pau-Loke Show**, Wawan Sujarwo. (2023) "Continuous-Flow Grafting of LENFLOC™ Coagulant for Water Treatment toward Circular Economy" *Water*, 15, 2484. [Accepted 30 June 2023, IF: 3.4(2022)]
156. Richard Q Mensah, Naiyasyit Yingkamheang, Ponnusami Venkatachalam, **Pau-Loke Show**, Solange I Mussatto, Malinee Sririyanun, Prakrit Sukyai, Pramuk Parakulsuksatid, Kittipong Rattanaporn\*. (2023) "Application of green produced xylooligosaccharides from sugarcane residues and their properties–Recent progress towards sustainability" *Bioresource Technology Reports*, 23, 101537. [Accepted 1 July 2023]
157. Ashfaq Ahmad\*, K Rambabu\*, Shadi W Hasan, **Pau Loke Show**, Fawzi Banat\*. (2023) "Biohydrogen production through dark fermentation: Recent trends and advances in transition to a circular bioeconomy" *International Journal of Hydrogen Energy*. [Accepted 15 May 2023, IF: 7.2(2022)]
158. Shashikala Premarathna, Jayanta Kumar Biswas, Manish Kumar, Sunita Varjani, Bede Mickan, Luis Novo, **Pau Loke Show**, Sie Yon Lau, Meththika Vithanage. (2023) "Biofilters and bioretention systems: The role of biochar in blue-green city concept for stormwater management" *Environmental Science- Water Research & Technology*. [Accepted 21 Jun 2023, IF: 5.0(2022)]
159. Jun Wei Roy Chong, Doris Ying Ying Tang, Hui Yi Leong, Kuan Shiong Khoo\*, **Pau Loke Show**, Kit Wayne Chew\*. (2023) "Bridging artificial intelligence and fucoxanthin for the recovery and quantification from microalgae" *Bioengineered*, 14, 2244232. [Accepted 31 July 2023, IF: 4.9(2022)]
160. RU Krishna Nayana, S Nakkeeran\*, N Saranya, R Saravanan, K Mahendra, Suhail Ashraf, Kahkashan Perveen, Najla A Alshaikh, RZ Sayyed\*, **Pau Loke Show\***. (2023) "Triamcinolone Acetonide Produced by *Bacillus velezensis* YEBBR6 Exerts Antagonistic Activity Against *Fusarium oxysporum* f. sp. *Cubense*: A Computational Analysis" *Molecular Biotechnology*, 1-19. [Accepted 13 June 2023, IF: 2.6(2022)]
161. Juin Yau Lim, Sin Yong Teng, Bing Shen How, Adrian Chun Minh Loy, SungKu Heo, Jeroen Jansen, **Pau Loke Show**, Chang Kyoo Yoo\*. (2023) "Smart solutions for clean air: An AI-guided approach to sustainable industrial pollution control in coal-fired power plant" *Environmental Pollution*, 335, 122335. [Accepted 6 August 2023, IF: 8.9(2022)]
162. Dang Diem Hong\*, Hoang Thi Minh Hien, Le Thi Thom, Nguyen Cam Ha, Le Anh Huy, Ngo Thi Hoai Thu, Nguyen Cuong, Doris Ying Ying Tang, **Pau Loke Show\***. (2023) "Transcriptome Analysis of *Spirulina platensis* sp. at Different Salinity and Nutrient Compositions for Sustainable Cultivation in Vietnam" *Sustainability*, 15, 11906. [Accepted 31 July 2023, IF: 3.9(2022)]
163. KSD Premarathna, Jayanta Kumar Biswas, Manish Kumar, Sunita Varjani, Bede Mickan, **Pau Loke Show**, Sie Yon Lau, Luís AB Novo, Meththika Vithanage\*. (2023) "Biofilters and bioretention systems: the role of biochar in the blue-green city concept for stormwater management. *Environmental Science: Water Research & Technology*. [Accepted 21 Jun 2023,

IF: 5.0(2022)]

164. Thanigaivel Sundaram, Saravanan Rajendran\*, Lalitha Gnanasekaran, Nova Rachmadona, Jheng-Jie Jiang, Kuan Shiong Khoo\*, **Pau Loke Show\***. (2023) "Bioengineering strategies of microalgae biomass for biofuel production: recent advancement and insight" *Bioengineered*, 14, 2252228. [Accepted 23 May 2023, IF: 4.9(2022)]
165. Heli Siti Halimatul Munawaroh\*, Budiman Anwar, Galuh Yuliani, Intan Cahaya Murni, Ni Putu Yunika Arindita, Gusnine Sari Maulidah, Larasati Martha, Nur Akmalia Hidayati, Kit Wayne Chew\*, **Pau-Loke Show\***. (2023) "Bacterial cellulose nanocrystal as drug delivery system for overcoming the biological barrier of cyano-phycoyanin: a biomedical application of microbial product" *Bioengineered*, 14, 2252226. [Accepted 9 August 2023, IF: 4.9(2022)]
166. Dingling Zhuang, Kit Wayne Chew, Wey Yang Teoh\*, Mohammed Abobakr Salem Al-Maari, Hanee Farzana Hizaddin, Sarah Alharthi, **Pau Loke Show\***, Tau Chuan Ling\*. (2023) "Extraction of phycocyanin from Spirulina using Deep Eutectic Solvent Liquid Biphasic System, *Journal of the Taiwan Institute of Chemical Engineers*, 151, 105125. [Accepted 7 September 2023, IF: 5.7(2022)]
167. Yen Vy Nguyen Thi, Thuy-Duong Vu, Anh Dao Ngo, **Pau Loke Show**, Dinh Toi Chu\*. (2023) "Residual toxins on aquatic animals in the Pacific areas: Current findings and potential health effects" *Science of The Total Environment*, 167390. [Accepted 24 September 2023, IF: 9.8(2022)]
168. Guowei Wu, Pei En Tham, Kit Wayne Chew, Heli Siti Halimatul Munawaroh, Inn Shi Tan, Wan Abd Al Qadr Imad Wan, Malinee Sriariyanun, **Pau Loke Show\***. (2023) "Net zero emission in circular bioeconomy from microalgae biochar production: A renewed possibility" *Bioresource Technology*, 388, 129748. [Accepted 6 September 2023, IF: 11.4(2022)]
169. R Suresh, Lalitha Gnanasekaran, Saravanan Rajendran\*, AA Jalil, Matias Soto-Moscoco, Kuan Shiong Khoo, Zengling Ma, Heli Siti Halimatul Munawaroh, **Pau Loke Show**. (2023) "Biomass waste as an alternative source of carbon and silicon-based absorbents for CO2 capturing application" *Chemosphere*, 140173. [Accepted 12 September 202, IF: 8.8 (2022)]
170. Ho Le Han, Dian Alfian Nurcahyanto, Neak Muhammad, Yong-Jae Lee, Tra TH Nguyen, Song-Gun Kim\*, Sook Sin Chan, Kuan Shiong Khoo, Kit Wayne Chew, **Pau Loke Show\***, Thi Ngoc Thu Tran, Thi Dong Phuong Nguyen\*, Chen Yaw Chiu\*. (2023) "Isolation of Spirosoma foliorum sp. nov. from the fallen leaf of Acer palmatum by a novel cultivation technique" *Scientific Reports*, 13, 14684. [Published 06 September 2023, IF: 4.6(2022)]
171. Tariq Aziz, Fazal Haq\*, Arshad Farid\*, Li Cheng, Lai Fatt Chuah, Awais Bokhari, Muhammad Mubashir, Doris Ying Ying Tang, **Pau Loke Show\***. (2023) "The epoxy resin system: function and role of curing agents" *Carbon Letters*, 1-18. [Published 01 September 2023, IF: 4.5(2022)]
172. Doris Ying Ying Tang, Kit Wayne Chew\*, Francesco G Gentili, Chongqing Wang, Heli Siti Halimatul Munawaroh, Zengling Ma\*, Fubao Sun, Muthusamy Govarthanam, Sarah Alharthi, **Pau Loke Show\***. (2023) "Dechlorophyllization of Microalgae Biomass for the Bioconversion into Lipid-Rich Bioproducts, *Industrial & Engineering Chemistry Research*. [Accepted 23 May 2023, IF: 4.2(2022)]
173. RU Krishna Nayana, S Nakkeeran\*, N Saranya, R Saravanan, K Mahendra, Suhail Ashraf, Kahkashan Perveen, Najla A Alshaikh, RZ Sayyed\*, **Pau Loke Show\***. (2023) "Triamcinolone

Acetonide Produced by Bacillus velezensis YEBBR6 Exerts Antagonistic Activity Against Fusarium oxysporum f. sp. Cubense: A Computational Analysis" Molecular Biotechnology, 1-19. [Accepted: 13 June 2023, IF: 2.6(2022)]

174. Yousif Alhammedi, Doris Ying Ying Tang, Kit Wayne Chew, Suksun Amornraksa, **Pau Loke Show\***. (2023) "Climate-Conscious Food Preserving Technologies for Food Waste Prevention" E3S Web of Conferences, 428, 02004.
175. Malak AbuZaid, Sook Sin Chan, Kit Wayne Chew, Atthasit Tawai, **Pau Loke Show\***. (2023) "From Kimchi to Kefir: An Exploration of Probiotics, Benefits, and Future, E4S Web of Conferences, 428, 02010.
176. Khadija Farousha, Pei En Tham, Kit Wayne Chew, Suksun Amornraksa, **Pau Loke Show\***. (2023) "The Future of Food Preservation: Active Packaging with Controlled Release Systems" E5S Web of Conferences, 428, 02009.
177. Mahra Alshehhi, Guowei Wu, Tawiwani Kangsadan, Kit Wayne Chew, **Pau Loke Show\***. (2023) "Ultrasound-Assisted Food Processing: A Mini Review of Mechanisms, Applications, and Challenges" E6S Web of Conferences, 428, 02011.
178. Danial 'Aizat Norhisham, Norsharina Md Saad, Siti Rokhiyah Ahmad Usuldin\*, Diwiya AG Vayabari, Zul Ilham, Mohamad Faizal Ibrahim, **Pau-Loke Show\***, Wan Abd Al Qadr Imad Wan-Mohtar\*. (2023) "Performance of Malaysian kenaf Hibiscus cannabinus callus biomass and exopolysaccharide production in a novel liquid culture" Bioengineered, 14, 2262203. [Accepted 15 September 2023, IF: 4.9(2022)]
179. Shuying Feng\*, Xin Xie, Junjie Liu, Aifang Li, Qianqian Wang, Dandan Guo, Shuxuan Li, Yalan Li, Zilong Wang, Tao Guo\*, Jin Zhou\*, Doris Ying Ying Tang, **Pau Loke Show\***. (2023) "A potential paradigm in CRISPR/Cas systems delivery: at the crossroad of microalgal gene editing and algal-mediated nanoparticles" Journal of Nanobiotechnology, 21, 1-26. [Published 10 October 2023, 2023, IF: 10.2(2022)]
180. Jialin Fu, Jia Xin Yap, CP Leo\*, Chun Kiat Chang, **Pau-Loke Show**. (2023) "Polysaccharide Hydrogels for Controlling the Nutrient Release" Separation & Purification Reviews, 1-13. [Accepted 03 Oct 2023, IF: 5.4(2022)]
181. Su Shiung Lam, **Pau Loke Show**, Angela Paul Peter, Kit Wayne Chew, Pei En Tham, Nyuk Ling Ma, Shing Ching Khoo, Shin Ying Foong, Dangquan Zhang, Yafeng Yang, Wanxi Peng, Christian Sonne\*. (2023) "Detection methods of Covid-19 to build resilience for environmental changes in the community" Urban Governance, 3, 330-336. [Accepted 3 October 2023]
182. Dang Thi Thanh Ha, Trinh Thi Phuong Thao, Tran Trung Dung, Tran Thi Minh Ha, Truong Thi Phuong Lan, Kuan Shiong Khoo\*, **Pau Loke Show\***, Nguyen Duc Huy\*. (2023) "Production of extracellular agarase from Priestia megaterium AT7 and evaluation on marine algae hydrolysis" Enzyme and Microbial Technology, 172, 110339. [Accepted 4 October 2023, 2023, IF: 3.4(2022)]
183. Zhonghao Chen, Lin Chen, Kuan Shiong Khoo\*, Vijai Kumar Gupta\*, Minaxi Sharma, **Pau Loke Show**, Pow-Seng Yap\*. (2023) "Exploitation of lignocellulosic-based biomass biorefinery: A critical review of renewable bioresource, sustainability and economic views, Biotechnology Advances, 69, 1082605. [Accepted 26 September 2023, IF: 16.0(2022)]
184. Ho Le Han, Phu Tran Vinh Pham, Song-Gun Kim, Sook Sin Chan, Kuan Shiong Khoo\*, Kit Wayne Chew, **Pau Loke Show**, Thi Ngoc Thu Tran, Hai Thi Viet Nguyen, Phuong Thi Dong

- Nguyen\*. (2023) "Isolation and Characterization of Antimicrobial Peptides Isolated from *Brevibacillus halotolerans* 7WMA2 for the Activity Against Multidrug-Resistant Pathogens" *Molecular Biotechnology*, 1-10. [Accepted 26 October 2023, IF: 2.6(2022)]
185. Richard Q Mensah, **Pau-Loke Show**, Solange I Mussatto, Malinee Sririyanun, Kittipong Rattanaporn\*. (2023) "Two-step physico-biological production of xylooligosaccharides from sugarcane leaves" *Biocatalysis and Agricultural Biotechnology*, 102962. [Accepted 22 November, ,IF: 4.0(2022)]
186. Kraipat Cheenkachorn, Richard Q Mensah, Babu Dharmalingam, Marttin Paulraj Gundupalli, Kittipong Rattanaporn, Prapakorn Tantayotai, **Pau Loke Show**, Malinee Sririyanun\*. (2023) "The Versatility of Mixed Lignocellulose Feedstocks for Bioethanol Production: an Experimental Study and Empirical Prediction" *BioEnergy Research*, 1-11. [Accepted 20 November 2023, IF: 3.6(2022)]
187. Abu Danish Aiman Bin Abu Sofian, Hooi Ren Lim, Kit Wayne Chew, Kuan Shiong Khoo, Inn Shi Tan, Zengling Ma, **Pau Loke Show\***. (2023) "Hydrogen production and pollution mitigation: Enhanced gasification of plastic waste and biomass with machine learning & storage for a sustainable future" *Environmental Pollution*, 123024. [Accepted 20 November 2023, IF: 8.9(2022)]
188. Wen Siong Poh, Wen Jie Yiang, Wee Jun Ong, **Pau Loke Show**, Chuan Yi Foo\*. (2023) "Enhancing MXene-based supercapacitors: Role of synthesis and 3D architectures" *Journal of Energy Chemistry*. [Accepted 11 November 2023, 13.1(2022)]
189. Sara Arif Alzaabi, Wen Yi Chia, **Pau Loke Show\***. (2023) "Exploring the potential of circular economy in the food sector" *Systems Microbiology and Biomanufacturing*, 1-11. [Accepted 21 October 2023]
190. Xiaoxuan Ma, Rui Zhu, Jue Li, Sivakumar Manickam, **Pau Loke Show**, Dandan Li, Yongbin Han, Erico Marlon Moraes Flores, Yang Tao\*. (2023) "Mass transfer study on noncovalent adsorption and desorption of soluble phenolics by plant cell wall materials for green purification" *Chemical Engineering Journal*, 147507. [Accepted 17 November 2023, IF: 15.1(2022)]
191. Nahal Hadi, Sedigheh Nakhaeitazreji, Farshad Kakian, Zahra Hashemizadeh, Alireza Ebrahiminezhad\*, Jun Wei Roy Chong, Aydin Berenjian\*, **Pau Loke Show**. (2023) "Superior Performance of Iron-Coated Silver Nanoparticles and Cefoxitin as an Antibiotic Composite Against Methicillin-Resistant *Staphylococcus aureus* (MRSA): A Population Study" *Molecular Biotechnology*, 1-10. [Accepted 20 October 2023, IF: 2.6(2022)]
192. K Rambabu\*, G Bharath, Abdul Hai, **Pau Loke Show**, Fawzi Banat, Sivakumar Manickam.

- (2023) "Enhancing biodiesel production from waste date seed oil through ultrasonic-assisted optimization: A sustainable approach using non-edible feedstocks" *Chemical Engineering and Processing-Process Intensification*, 194, 109601. [Accepted 3 November 2023, IF: 4.3(2022)]
193. Mei Yin Ong\*, Shir Reen Chia, Jassinnee Milano, Saifuddin Nomanbhay\*, Kit Wayne Chew, Talal Yusaf, **Pau Loke Show**. (2024) "Simulation of an argon-excited microwave plasma reactor for green energy and CO2 conversion application" *Applied Energy*, 353, 122160. [Accepted 23 October 2023, IF: 11.2(2022)]
194. Abu Danish Aiman Bin Abu Sofian, SR Majid\*, Tonni Agustiono Kurniawan, Kit Wayne Chew, Chyi-How Lay, **Pau Loke Show\***. (2023) "Nickel-rich nickel-cobalt-manganese and nickel-cobalt-aluminium cathodes in lithium-ion batteries: Pathways for performance optimization" *Journal of Cleaner Production*, 140324. [Accepted 19 December 2023, IF: 11.1(2022)]
195. Shashank Garg, Simranjeet Singh, Nabila Shehata, HariBhakta Sharma, Justin Samuel, Nadeem A Khan, Praveen C Ramamurthy\*, Joginder Singh\*, Muhammad Mubashir, Awais Bokhari, Der Jiun Ooi, **Pau Loke Show\***. (2023) "Aerogels in wastewater treatment: A review" *Journal of the Taiwan Institute of Chemical Engineers*, 105299. [Accepted 11 December 2023, IF: 5.7(2022)]
196. Revathy Sankaran, **Pau Loke Show**. (2023) "Preliminary Investigation on Mechanical Properties of Hollow Glass Spheres" *Materials Science Forum*, 1108, 17-22. [IF: 0.399(2005)]
197. Anh Ngoc T Cao, Kim Hoong Ng, Shams Forruque Ahmed\*, Ha Tran Nguyen, Ponnusamy Senthil Kumar\*, Huu-Tuan Tran\*, Natarajan Rajamohan, Mohammad Yusuf, **Pau Loke Show**, Akash Balakrishnan, Mahadi B Bahari, Tan Ji Siang, Dai-Viet N Vo\*. (2023) "Hydrogen generation by heterogeneous catalytic steam reforming of short-chain alcohols: a review" *Environmental Chemistry Letters*, 1-23. [Accepted 6 November 2023, IF: 15.7(2022)]
198. Whitney Wee Nee Tan, Man Kee Lam\*, Yaleeni Kanna Dasan, Jun Wei Lim, Yeek Chia Ho, Yoke Wang Cheng, Chi Cheng Chong, **Pau Loke Show**, Inn Shi Tan, Peck Loo Kiew. (2023) "The impact of introducing liquid-type carbon towards the growth performance and lipid accumulation of microalgae" *AIP Conference Proceedings*, 2669.

### Book Chapter

199. Zahid Majeed, Muhammad Mubashir, **Pau Loke Show**, Eefa Manzoor. (2023) "Biodegradation Study of Polyvinyl Alcohol-Based Biocomposites and Bionanocomposites Polyvinyl" *in Alcohol-Based Biocomposites and Bionanocomposites. John Wiley & Sons*.
200. Yik Lam Kam, Kar Mun Lee, Uganeeswary Suparmaniam, M Rashid Shamsuddin, Jun Wei Lim,

- Inn Shi Tan, Bridgid Lai Fui Chin, **Pau Loke Show**, Man Kee Lam. (2023) "Potential of Using Manure in Microalgae Cultivation for Third Generation of Biofuel Production" in *Manure Technology and Sustainable Development*. Springer, Singapore.
201. Rupesh Maurya, Harshal Chaudhari, Abrar Mansuri, Nisarg Gohil, Gargi Bhattacharjee, Khushal Khambhati, Vinod Kumar, Mukesh Kumar Awasthi, **Pau Loke Show**, Vijai Singh. (2023) "Cell-Free Systems for Sustainable Production of Biofuels" in *Bio manufacturing for Sustainable Production of Biomolecules*. Springer Nature Singapore.
  202. Manahil Bakhtiar, Farman Ali, Nisar Ali, Shaukat Saeed, Mohammad Mansoob Khan, Sami Rtimi, **Pau Loke Show**, Muhammad Bilal. (2023) "Silica-based polymer nanocomposites and their biomedical applications" in *Smart Polymer Nanocomposites*. Elsevier.
  203. Yik Lam Kam, Kar Mun Lee, Uganeeswary Suparmaniam, M Rashid Shamsuddin, Jun Wei Lim, Inn Shi Tan, Bridgid Lai Fui Chin, **Pau Loke Show**, Man Kee Lam. (2023) "Potential of Using Manure in Microalgae Cultivation for Third Generation of Biofuel Production" in *Manure Technology and Sustainable Development*. Springer Nature Singapore.
  204. Zhi Ting Ang, Shuet Fen Lai, Kuan Shiong Khoo, **Pau Loke Show**. "Life-cycle environmental and economical assessment of multiphase systems" in *Principles of Multiple-Liquid Separation Systems*. Elsevier.
  205. Heam Boon Quah, Xuwei Liu, Shir Reen Chia, Saifuddin Nomanbhay, Pau Loke Show. (2023) "Recyclability and reusability of the solvents" in *Principles of Multiple-Liquid Separation Systems*. Elsevier.
  206. Apurav Krishna Koyande, Teoh Rui Hong, Kit Wayne Chew, **Pau Loke Show**. (2023) "Conventional designs for multiphase liquid separation" in *Principles of Multiple-Liquid Separation Systems*. Elsevier.
  207. Hui Yi Leong, Chih-Kai Chang, Krisya Nicole Garcia Aung, Dong-Qiang Lin, **Pau Loke Show**. (2023) "Alcohol-salt interaction" in *Principles of Multiple-Liquid Separation Systems*. Elsevier.
  208. Sophie Jing Nee Chai, Xiao-Qian Fu, Dong-Qiang Lin, **Pau Loke Show**. (2023) "Sugar-based deep eutectic solvent-aqueous two-phase system" in *Principles of Multiple-Liquid Separation Systems*. Elsevier.
  209. Kien Xiang Bong, Wai Siong Chai, **Pau Loke Show**. (2023) "Economical sustainability of multiphase systems" in *Principles of Multiple-Liquid Separation Systems*. Elsevier.
  210. Mei Yuen Siau, Shuet Fen Lai, Kuan Shiong Khoo, Pau Loke Show. (2023) "Precursors for promoting liquid-liquid phase separation" in *Principles of Multiple-Liquid Separation Systems*. Elsevier.
  211. Yan Jer Ng, Yoong Kit Leong, Wen Yi Chia, Kit Wayne Chew, **Pau Loke Show**. (2023) "T-butanol-salt three-phase interaction" in *Principles of Multiple-Liquid Separation Systems*. Elsevier.
  212. Sridaran Raguraman, Wen Yi Chia, Kit Wayne Chew, **Pau Loke Show**. (2023) "Considerations in designing a multiphase separation system" in *Principles of Multiple-Liquid Separation Systems*. Elsevier.
  213. Kah Rong Chew, Revathy Sankaran, Kit Wayne Chew, **Pau Loke Show**. (2023) "Polymer-polymer interaction" in *Principles of Multiple-Liquid Separation Systems*. Elsevier.
  214. Jun Wei Roy Chong, Zatul Iffah Mohd Arshad, Kit Wayne Chew, Pau Loke Show. (2023) "Polymer-salt interaction" in *Principles of Multiple-Liquid Separation Systems*. Elsevier.
  215. Malinee Sriariyanun, Elizabeth Jayex Panakkal, Nichaphat Kitiborwornkul, Yu-Shen Cheng, **Pau-Loke Show**. (2023) "Ionic liquid-mediated processing of cellulose-based

nanomaterials and its application in renewable energy" in *Ionic Liquids and Their Application in Green Chemistry*. Elsevier.

216. Wen Yi Chia, Doris Ying Ying Tang, Kit Wayne Chew, **Pau-Loke Show**. (2023) "Diatom Taxonomy: New Insights" in *Diatoms*, CRC Press.
217. Archana Tiwari, Ashok Pandey, **Pau-Loke Show**, Parameswaran Binod. (2023) "Diatoms: Ecology and Biotechnological Applications" in *Diatoms*, CRC Press.
218. Win Nee Phong, Roshan Regmi, Kul Chandra Adhikari, Rewati Raman Bhattarai, **Pau Loke Show**. (2023) "Bioactive Compounds from Diatoms" in *Diatoms*, CRC Press.
219. Archana Tiwari, Ashok Pandey, **Pau Loke Show**, Binod Parameswaran. (2023) "Diatoms Biotechnology" in *Diatoms*, CRC Press.

## 2022

220. Shir Reen Chia, Saifuddin Bin HJ M Nomanbhay, Kit Wayne Chew, Heli Siti Halimatul Munawaroh, **Pau Loke Show**\*. (2022) "Algae as a potential feedstock for various bioenergy production" *Chemosphere*, 287, 131944. [Accepted 17 August 2021, IF: 7.086(2020)]
221. Xin Ni Law, Wai Yan Cheah\*, Kit Wayne Chew, Mohammad Faizal Ibrahim, Young-Kwon Park, Shih-Hsin Ho\*, **Pau Loke Show**\*. (2022) "Microalgal-based biochar in wastewater remediation: Its synthesis, characterization and applications" *Environmental Research*, 204, 111966. [Accepted 19 August 2021, IF: 6.498(2020)]
222. Minlin Yang, Elaine Low, Chung Lim Law, Jie-Chao Chen, **Pau Loke Show**, Si-Min Huang\*. (2022) "Heat and mass transfer in a counter flow parallel plate membrane-based absorption heat pump (PMAHP)" *International Journal of Thermal Sciences*, 171, 107227. [Accepted 9 August 2021, IF: 3.744(2020)]
223. Suraya Zulkepli, Hwei Voon Lee, Noorsaadah Abd Rahman, Ling Tau Chuan, **Pau Loke Show**, Wei-Hsin Chen, Joon Ching Juan\*. (2022) "Highly active iron-promoted hexagonal mesoporous silica (HMS) for deoxygenation of triglycerides to green hydrocarbon-like biofuel" *Fuel*, 308, 121860. [Accepted 27 August 2021, IF: 6.609(2020)]
224. Jung Eun Lee, Ki-Joon Jeon, **Pau Loke Show**, Sang-Chul Jung, Yong Jun Choi, Gwang Hoon Rhee, Kun-Yi Andrew Lin, Young-Kwon Park\*. (2022) "Mini review on H<sub>2</sub> production from electrochemical water splitting according to special nanostructured morphology of electrocatalysts" *Fuel*, 308, 122048. [Accepted 17 September 2021, IF: 6.609(2021)]
225. Sook Sin Chan, Kuan Shiong Khoo, Kit Wayne Chew, Tau Chuan Ling, **Pau Loke Show**\*. (2022) "Recent advances biodegradation and biosorption of organic compounds from wastewater: microalgae-bacteria consortium-A Review" *Bioresource Technology*, 344, 126159. [Accepted 14 October 2021, IF: 9.642(2020)]
226. Mushtaq Ahmad, Saira Asif, Jiří Jaromír Klemeš, Muhammad Mubashir, Awais Bokhari\*, Shazia Sultana, Ahmad Mukhtar, Muhammad Zafar, Aqeel Ahmed Bazmi, Sami Ullah, Mohd Shariq Khan, Apurav Krishna Koyande, Md Mofijur, **Pau-Loke Show**\*. (2022) "Conversion of the toxic and hazardous Zanthoxylum armatum seed oil into methyl ester using green and recyclable silver oxide nanoparticles" *Fuel*, 310, 122296. [Accepted 13 October 2021, IF: 6.609(2021)]
227. Angela Paul Peter, Apurav Krishna Koyande, Kit Wayne Chew, Shih-Hsin Ho, Wei-Hsin Chen, Jo-Shu Chang, Rambabu Krishnamoorthy, Fawzi Banat, **Pau Loke Show**\*. (2022) "Continuous

cultivation of microalgae in photobioreactors as a source of renewable energy: Current status and future challenges" *Renewable and Sustainable Energy Reviews*, 154, 111852. [Accepted 29 October 2021, IF: 14.982(2020)]

228. Syed Shujaat Karim, Zahid Murtaza, Sarah Farrukh\*, Malik Adeel Umer, Syed Sarim Ali, Mohammad Younas, Muhammad Mubashir, Sidra Saqib, Muhammad Ayoub, Awais Bokhari, Angela Paul Peter, Kuan Shiong Khoo, Sami Ullah, **Pau Loke Show\***. (2022) "Future advances and challenges of nanomaterial-based technologies for electromagnetic interference-based technologies: A review" *Environmental Research*, 112402. [Accepted 15 November 2021, IF: 6.498(2020)]
229. Hafiz Muhammad Uzair Ayub, Ashfaq Ahmed, Su Shiung Lam, Jechan Lee, **Pau Loke Show**, Young-Kwon Park\*. (2022) "Sustainable Valorization of Algae Biomass via Thermochemical Processing Route: An Overview" *Bioresource Technology*, 344, 126399. [Accepted 17 November 2021, IF: 9.642(2020)]
230. Chihe Sun, Hongyan Ren, Fubao Sun\*, Yun Hu, Qiangqiang Liu, Guojie Song, Ali Abdulkhani, **Pau Loke Show**. (2022) "Glycerol organosolv pretreatment can unlock lignocellulosic biomass for production of fermentable sugars: Present situation and challenges" *Bioresource Technology*, 344, 126264. [Accepted 28 October 2021, IF: 9.642(2020)]
231. Farhana Iylia Fatinee Mohd Yusree, Angela Paul Peter, Nurul Ainina binti Zulkifli, Mohd Zuhair Mohd Nor\*, Mohd Salahuddin Mohd Basri, Mohd Noriznan Mokhtar, Mukesh Kumar Awasthi\*, **Pau Loke Show\***. (2022) "Towards green recovery of  $\beta$ -amylase from slurry of sweet potato (*Ipomoea batatas*) of VitAto variety via liquid biphasic system" *Sustainable Chemistry and Pharmacy*, 25, 100579. [Accepted 29 November 2021, IF: 4.508(2020)]
232. Soheil Valizadeh, Daejun Oh, Junggho Jae, Sumin Pyo, Hoyeon Jang, Hyeonji Yim, Gwang Hoon Rhee, Moonis Ali Khan, Byong-Hun Jeon, Kun-Yi Andrew Lin, **Pau Loke Show**, Jung Min Sohn, Young-Kwon Park\*. (2022) "Effect of torrefaction and fractional condensation on the quality of bio-oil from biomass pyrolysis for fuel applications" *Fuel*, 312, 122959. [Accepted 11 December 2021, IF: 6.609(2021)]
233. Wai Hong Leong, Worapon Kiatkittipong\*, Man Kee Lam, Kuan Shiong Khoo, **Pau Loke Show**, Mardawani Mohamad, Siewhui Chong, Muslim Abdurrahman, Jun Wei Lim\*. (2022) "Dual nutrient heterogeneity modes in a continuous flow photobioreactor for optimum nitrogen assimilation to produce microalgal biodiesel" *Renewable Energy*, 184, 443-451. [Accepted 29 November 2021, IF: 8.001(2020)]
234. Sze Shin Low, Maxine Yew, Chang Nong Lim, Wai Siong Chai, Liang Ee Low, Sivakumar Manickam\*, Beng Ti Tey, **Pau Loke Show\***. (2022) "Sonoproduction of nanobiomaterials—A critical review" *Ultrasonics Sonochemistry*, 82, 105887. [Accepted 21 December 2021, IF: 7.491(2020)]
235. Jun Wei Roy Chong, Xuefei Tan\*, Kuan Shiong Khoo\*, Hui Suan Ng, Woranart Jonglertjanya, Guo Yong Yew, **Pau Loke Show\***. (2022) "Microalgae-based bioplastics: Future solution towards mitigation of plastic wastes" *Environmental Research*, 112620. [Accepted 21 December 2021, IF: 6.498(2020)]
236. Ceren Karaman, Onur Karaman, **Pau-Loke Show**, Hassan Karimi-Maleh\*, Najmeh Zare. (2022) "Congo red dye removal from aqueous environment by cationic surfactant modified-biomass derived carbon: Equilibrium, kinetic, and thermodynamic modeling, and forecasting via artificial neural network approach" *Chemosphere*, 290, 133346. [Accepted 15 December 2021,

IF: 7.086(2020)]

237. Pei En Tham, Yan Jer Ng, Navintran Vadivelu, Hooi Ren Lim, Kuan Shiong Khoo, Kit Wayne Chew, **Pau Loke Show\***. (2022) "Sustainable Smart Photobioreactor for Continuous Cultivation of Microalgae Embedded with Internet of Things" *Bioresource Technology*, 346, 126558. [Accepted 9 December 2021, IF: 9.642(2020)]
238. Ming Li, Ning Han\*, Xi Zhang, Shuo Wang, Man Jiang, Awais Bokhari, Wei Zhang, Marco Race, Zhangfeng Shen, Ruofei Chen, Muhammad Mubashir, Kuan Shiong Khoo, Swee Sen Teo, **Pau Loke Show\***. (2022) "Perovskite oxide for emerging Photo (electro) catalysis in energy and environment" *Environmental Research*, 205, 112544. [Accepted 6 December 2021, IF: 6.498(2020)]
239. Dong Bui-Xuan, Doris Ying Ying Tang, Kit Wayne Chew\*, Thi Dong Phuong Nguyen\*, Han Le Ho, Thi Ngoc Thu Tran, Toan Nguyen-Sy, Thi Ha Thuong Dinh, Phuc Son Nguyen, Thi My Huong Dinh, Thanh Thuy Nguyen, **Pau Loke Show**. (2022) "Green Biorefinery: Microalgae-Bacteria Microbiome on Tolerance Investigations in Plants" *Journal of Biotechnology*, 343, 120-127. [Accepted 5 December 2021, IF: 3.307(2020)]
240. Saleh Shadman, Christina MM Chin, Novita Sakundarini, Eng Hwa Yap, Shadreen Fairuz, Xin Yi Wong, Phahmee Ahanaf Khalid, Fatemeh Karimi, Ceren Karaman, M Mofijur, Apurav Krishna Koyande\*, **Pau Loke Show\***. (2022) "A system dynamics approach to pollution remediation and mitigation based on increasing the share of renewable resources, *Environmental Research*, 205, 112458. [Accepted 25 November 2021, IF: 6.498(2020)]
241. Nurul Syahirah Mat Aron, Kit Wayne Chew\*, Wei Lun Ang, Sakhon Ratchahat, Jörg Rinklebe, **Pau Loke Show\***. (2022) "Recovery of microalgae biodiesel using liquid biphasic flotation system" *Fuel*, 317, 123368. [Accepted 18 January 2022, IF: 6.609(2020)]
242. Shir Reen Chia, Saifuddin Nomanbhay\*, Mei Yin Ong, Kit Wayne Chew, **Pau Loke Show\***. (2022) "Renewable diesel as fossil fuel substitution in Malaysia: A review" *Fuel*, 314,123137. [Accepted 2 January 2022, IF: 6.609(2020)]
243. MY Ong\*, S Nomanbhay\*, F Kusumo, **PL Show**. (2022) "Application of microwave plasma technology to convert carbon dioxide (CO<sub>2</sub>) into high-value products: A review" *Journal of Cleaner Production*, 336, 130447. [Accepted 6 January 2022, IF: 9.297(2020)]
244. Heli Siti Halimatul Munawaroh\*, Farah Hazmatulhaq, Gun Gun Gumilar, Riska Nur Pratiwi, Isman Kurniawan, Andriati Ningrum, Nur Akmalia Hidayati, Apurav Krishna Koyande, P Senthil Kumar, **Pau-Loke Show\***. (2022) "Microalgae as a potential sustainable solution to environment health" *Chemosphere*,133740. [Accepted 22 January 2022, IF: 7.086(2020)]
245. Fariha Jabeen, Muhammad Adrees, Muhammad Ibrahim\*, Abid Mahmood, Sofia Khalid, Hassaan Fayyaz Khan Sipra, Awais Bokhari, Muhammad Mubashir, Kuan Shiong Khoo, **Pau Loke Show\***. (2022) "Trash to Energy: A Measure for the Energy Potential of Combustible content of Domestic solid waste generated from an industrialized city of Pakistan" *Journal of the Taiwan Institute of Chemical Engineers*, 104223. [Accepted 18 January 2022, IF: 5.876(2020)]
246. Jia Xin Yap, CP Leo, Nazlina Haiza Mohd Yasin, **Pau Loke Show**, Dinh-Toi Chu, Vijai Singh, CJC Derek\*. (2022) "Recent advances of natural biopolymeric culture scaffold: synthesis and modification" *Bioengineered*, 13, 2226-2247. [Accepted 24 Dec 2021, IF: 3.269(2020)]
247. Syed Iqleem H Taqvi, Amber R Solangi\*, Jamil A Buledi, Nadir H Khand, Bindia Junejo, Almas F Memon, Sidra Ameen, Atiya Bhatti, **Pau-Loke Show**, Yasser Vasseghian\*, Hassan Karimi-Maleh\*. (2022) "Plant extract-based green fabrication of nickel ferrite (NiFe<sub>2</sub>O<sub>4</sub>) nanoparticles: An operative platform for non-enzymatic determination of pentachlorophenol" *Chemosphere*, 294, 133760. [Accepted 24 January 2022, IF: 7.086(2020)]

248. Anurita Selvarajoo\*, Yu Ling Wong, Kuan Shiong Khoo, Wei-Hsin Chen, **Pau Loke Show\***. (2022) "Biochar production via pyrolysis of citrus peel fruit waste as a potential usage as solid biofuel" *Chemosphere*, 294, 133671. [Accepted 16 January 2022, IF: 7.086(2020)]
249. Shengnan Li, **Pau Loke Show**, Huu Hao Ngo, Shih-Hsin Ho\*. (2022) "Algae-mediated antibiotic wastewater treatment: A critical review" *Environmental Science and Ecotechnology*, 100145. [Accepted 18 January 2022]
250. Jie Yang, Tengqi Gao, Feng Ge, Hao Sun, Zihang Cui, Zhen Wei, Shujun Wang\*, **Pau Loke Show**, Wenbin Wang, Yang TAO. (2022) "Porphyra yezoensis sauce fermented with lactic acid bacteria: fermentation properties, flavor profile, and antioxidant capacity evaluation" *Frontiers in Nutrition*, 8, 1277. [Accepted 20 December 2021, IF: 6.576(2020)]
251. Ihtisham Ul Haq, Ali Qasim, Bhajan Lal, Dzulkarnain B Zaini\*, Khor Siak Foo, Muhammad Mubashir, Kuan Shiong Khoo, Dai-Viet N Vo, Eric Leroy, **Pau Loke Show\***. (2022) "Ionic liquids for the inhibition of gas hydrates. A review" *Environmental Chemistry Letters*, 1-24. [Accepted 8 November 2021, IF: 9.027(2020)]
252. [Retracted] Nguyen-Sy Toan\*, Nguyen Thi Dong Phuong, Phan Thi Thuy, Pham Duy Dong, Nguyen Thanh Gia, Tran Thi Ngoc Thu, Kuan Shiong Khoo\*, **Pau Loke Show\***. (2022) "Effects of burning rice straw residue on-field on soil organic carbon pools: Environment-friendly approach from a conventional rice paddy in central Viet Nam" *Chemosphere*, 294, 133596. [Accepted 9 January 2022, IF: 7.086(2020)]
253. Fatemeh Nemati, Maryam Rezaie, Hadi Tabesh, Kamel Abdelmoniem Mohamed Eid, Guobao Xu, Mohammad Reza Ganjali, Morteza Hosseini\*, Ceren Karaman\*, Nevin Erk, **Pau-Loke Show**, Najme Zare, Hassan Karimi-Maleh\*. (2022) "Cerium functionalized graphene nano-structures and their applications; A review" *Environmental Research*, 208, 112685. [Accepted 3 January 2022, IF: 6.498(2020)]
254. Wei Han Foo, Sherlyn Sze Ning Koay, Doris Ying Ying Tang, Wen Yi Chia, Kit Wayne Chew\*, **Pau Loke Show**. (2022) "Safety control of waste cooking oil: transforming hazard into multifarious products with available pre-treatment processes" *Food Materials Research*, 2, 1-11. [Accepted 23 December 2021]
255. Malinee Sriariyanun\*, Nichaphat Kitiborwornkul, Prapakorn Tantayotai, Kittipong Rattanaporn, **Pau-Loke Show**. (2022) "One-Pot Ionic Liquid-Mediated Bioprocess for Pretreatment and Enzymatic Hydrolysis of Rice Straw with Ionic Liquid-Tolerance Bacterial Cellulase" *Bioengineering* 9, 17. [Accepted 4 January 2022]
256. Yue-Sheng Chen, Chien Wei Ooi, **Pau Loke Show**, Boon Chin Hoe, Wai Siong Chai, Chen-Yaw Chiu, Steven S-S Wang\*, Yu-Kaung Chang\*. (2022) "Removal of Ionic Dyes by Nanofiber Membrane Functionalized with Chitosan and Egg White Proteins: Membrane Preparation and Adsorption Efficiency" *Membranes*, 12, 63. [Accepted 28 December 2021, IF: 4.106(2020)]
257. Saleh Shadman, Phahmee Ahanaf Khalid, Marlia Mohd Hanafiah, Apurav Krishna Koyande, Md Atiqul Islam, Shawkat Ali Bhuiyan, Sin Woon Kok, **Pau-Loke Show\***. (2022) "The carbon sequestration potential of urban public parks of densely populated cities to improve environmental sustainability" *Sustainable Energy Technologies and Assessments*, 52, 102064. [Accepted 26 January 2022, IF: 5.353(2020)]
258. Wen Yi Chia, Kit Wayne Chew\*, Cheng Foh Le, Chelsea Siew Chyi Chee, Mae See Luan Ooi, **Pau Loke Show\***. (2022) "Utilization of Aerobic Compression Composting Technology on Raw Mushroom Waste for Bioenergy Pellets Production" *Processes*, 10, 463. [Accepted 9 January 2022, IF: 2.847(2020)]

259. Muhammad Kashif Irshad, Muhammad Ibrahim, Ali Noman, Jianying Shang\*, Abid Mahmood, Muhammad Mubashir, Kuan Shiong Khoo, Hui Suan Ng, **Pau Loke Show\***.(2022) "Elucidating the impact of goethite-modified biochar on arsenic mobility, bioaccumulation in paddy rice (*Oryza sativa* L.) along with soil enzyme activities" *Process Safety and Environmental Protection* [Accepted 27 February 2022, IF: 6.158(2020)]
260. Hooi Ren Lim, Kuan Shiong Khoo\*, Wen Yi Chia, Kit Wayne Chew, Shih-Hsin Ho\*, **Pau Loke Show\***.(2022) "Smart microalgae farming with internet-of-things for sustainable agriculture" *Biotechnology Advances*, 107931. [Accepted 17 February 2022, IF: 14.227(2020)]
261. Kuan Shiong Khoo\*, Chien Wei Ooi, Kit Wayne Chew, Shir Reen Chia, Su Chern Foo, Hui Suan Ng, **Pau Loke Show\***.(2022) "Extraction of fucoxanthin from *Chaetoceros calcitrans* by electropermeabilization-assisted liquid biphasic flotation system" *Journal of Chromatography A*, 462915. [Accepted 19 February 2022, IF: 4.759(2020)]
262. Josiah Cheng Foong Van, Pei En Tham, Hooi Ren Lim, Kuan Shiong Khoo, Jo-Shu Chang\*, **Pau Loke Show\***.(2022) "Integration of Internet-of-Things as sustainable smart farming technology for the rearing of black soldier fly to mitigate food waste, *Journal of the Taiwan Institute of Chemical Engineers*, 104235. [Accepted 23 January 2022, IF: 5.876(2020)]
263. Yang Tao, Pengfei Wu, Yanxian Dai, Xintao Luo, Sivakumar Manickam, Dandan Li, Yongbin Han\*, **Pau Loke Show\***.(2022) "Bridge between mass transfer behaviour and properties of bubbles under two-stage ultrasound-assisted physisorption of polyphenols using macroporous resin" *Chemical Engineering Journal*, 135158. [Accepted 6 February 2022, IF: 13.273(2020)]
264. Gargi Bhattacharjee, Nisarg Gohil, Khushal Khambhati, Indra Mani, Rupesh Maurya, Janardhan Keshav Karapurkar, Jigresh Gohil, Dinh-Toi Chu, Hue Vu-Thi, Khalid J Alzahrani, **Pau-Loke Show**, Rakesh M Rawal, Suresh Ramakrishna\*, Vijai Singh\*. (2022) "Current approaches in CRISPR-Cas9 mediated gene editing for biomedical and therapeutic applications" *Journal of Controlled Release*, 343, 703-723. [Accepted 4 February 2022, IF: 9.776(2020)]
265. Aparna Sajeev, Aleena Mary Paul, Ravi Nivetha, Kannan Gothandapani, Tamil Selvi Gopal, George Jacob\*, Muthumareeswaran Muthuramamoorthy, Saravanan Pandiaraj, Abdullah Alodhayb, Soo Young Kim\*, Quyut Van Le\*, **Pau Loke Show**, Soon Kwan Jeong\*, Andrews Nirmala Grace\*. (2022) "Development of Cu<sub>3</sub>N electrocatalyst for hydrogen evolution reaction in the alkaline medium" *Scientific Reports*, 12, 1-13. [IF: 4.380(2020)]
266. Le Thi Kim Thoa, Trinh Thi Phuong Thao, Nguyen Bao Hung, Kuan Shiong Khoo, Hoang Tan Quang, Tran Thuy Lan, Vu Duc Hoang, Seung-Moon Park, Chien Wei Ooi, **Pau Loke Show\***, Nguyen Duc Huy\*. (2022) "Biodegradation and Detoxification of Malachite Green Dye by Extracellular Laccase Expressed from *Fusarium oxysporum*" *Waste and Biomass Valorization*, 1-8. [Accepted 17 January, IF: 3.703(2020)]
267. Chung Hong Tan, Saifuddin Nomanbhay\*, Abd Halim Shamsuddin, Young-Kwon Park, H Hernandez-Cocoletzi, **Pau Loke Show\***. (2022) "Current Developments in Catalytic Methanation of Carbon Dioxide-A Review" *Frontiers in Energy Research*, 9. [Accepted 28 December 2021, IF: 4.008(2020)]
268. Yaleeni Kanna Dasan, Man Kee Lam\*, Jun Wei Lim, Inn Shi Tan, Henry Chee Yew Foo, Peck Loo Kiew, **Pau Loke Show**, Keat Teong Lee. (2022) "The impact of using recycled culture

- medium to grow *Chlorella vulgaris* in a sequential flow system: Evaluation on growth, carbon removal, and biochemical compositions” *Biomass and Bioenergy*, 159, 106412. [Accepted 27 February 2022, IF:5.061(2020)]
269. Vidhi Kayastha, Jimit Patel, Niraj Kathrani, Sunita Varjani\*, Muhammad Bilal, **Pau Loke Show**, Sang-Hyoun Kim, Elza Bontempi, Shashi Kant Bhatia, Xuan-Thanh Bui. (2022) “New Insights in factors affecting groundwater quality with a focus on health risk assessment and remediation techniques” *Environmental Research*, 113171. [Accepted 22 March 2022, IF: 6.498(2020)]
270. Sarish Rehman\*, Faheem Ahmed\*, Muhammad Umar Aslam Khan, Abdullah Aljaafari, Sivakumar Manickam\*, **Pau Loke Show\***. (2022) “Morphological Evaluation of Hematite Nanostructures and their Shape Dependent Photocatalytic and Magnetic Properties” *Chemical Engineering and Processing-Process Intensification*, 175, 108909. [Accepted 24 March 2022, IF: 4.237(2020)]
271. Yan Jer Ng, Hooi Ren Lim, Kuan Shiong Khoo\*, Kit Wayne Chew\*, Derek Juinn Chieh Chan, Muhammad Bilal, Heli Siti Halimatul Munawaroh, **Pau Loke Show\***. (2022) “Recent advances of biosurfactant for waste and pollution bioremediation: Substitutions of petroleum-based surfactants” *Environmental Research*, 212, 113126. [Accepted 12 March 2022, IF: 6.498(2020)]
272. Zhi Lin Lau, Sze Shin Low, Ejikeme Raphael Ezeigwe, Kit Wayne Chew, Wai Siong Chai, Amit Bhatnagar, Yee Jiun Yap, **Pau Loke Show\***. (2022) “A review on the diverse interactions between microalgae and nanomaterials: growth variation, photosynthesis performance and toxicity” *Bioresource Technology*, 351, 127048. [Accepted 17 March 2022, IF: 9.642(2020)]
273. Thi-My Pham, Xuan Dong Bui, Trang Vu Khanh Le, Thi-Mai Le, Minh Ly Nguyen, Dang-Mau Trinh, Thi Dong Phuong Nguyen\*, Kuan Shiong Khoo, Kit Wayne Chew\*, **Pau Loke Show\***. (2022) “Isolation of indole-3-acetic acid-producing *Azospirillum brasilense* from Vietnamese wet rice: co-immobilization of isolate and microalgae as a sustainable biorefinery” *Journal of Biotechnology*, 349, 12-20. [Accepted 14 March 2022, IF: 3.307(2020)]
274. Hassan Karimi-Maleh\*, Ceren Karaman\*, Onur Karaman, Fatemeh Karimi, Yasser Vasseghian, Li Fu, Mehdi Baghayeri, Jalal Rouhi, P Senthil Kumar, **Pau-Loke Show**, Saravanan Rajendran, Afsaneh L Sanati, Ali Mirabi. (2022) “Nanochemistry approach for the fabrication of Fe and N co-decorated biomass-derived activated carbon frameworks: a promising oxygen reduction reaction electrocatalyst in neutral media” *Journal of Nanostructure in Chemistry*, 1-11. [Accepted 3 March 2022, IF: 6.391(2020)]
275. Heli Siti Halimatul Munawaroh\*, Yayan Sunarya, Budiman Anwar, Enjang Priatna, Handi Risa, Apurav Krishna Koyande, **Pau-Loke Show\***. (2022) “Protoporphyrin Extracted from Biomass Waste as Sustainable Corrosion Inhibitors of T22 Carbon Steel in Acidic Environments” *Sustainability*, 14, 3622. [Accepted 16 March 2022, IF: 3.251(2020)]
276. Sook Sin Chan, Sze Shin Low, Kit Wayne Chew, Tau Chuan Ling, Jörg Rinklebe, Joon Ching Juan, Eng Poh Ng, **Pau Loke Show\***. (2022) “Prospects and environmental sustainability of phyconanotechnology: A review on algae-mediated metal nanoparticles synthesis and mechanism” *Environmental Research*, 212, 113140. [Accepted 16 March 2022, IF: 6.498(2020)]
277. Heli Siti Halimatul Munawaroh, Gun Gun Gumilar, Jerlita Dea Berliana, Siti Aisyah, Vidia Afina Nuraini, Andriati Ningrum, Eko Susanto, Larasati Martha, Isman Kurniawan, Nur Akmalia Hidayati, Apurav Krishna Koyande, **Pau-Loke Show\***. (2022) “In silico proteolysis and

- molecular interaction of tilapia (*Oreochromis niloticus*) skin collagen-derived peptides for environmental remediation" *Environmental Research*, 212, 113002. [Accepted 20 February 2022, IF: 6.498(2020)]
278. Hui Yi Leong, Xiao Qian Fu, **Pau Loke Show**, Shan Jing Yao, Dong Qiang Lin\*. (2022) "Downstream processing of virus-like particles with aqueous two-phase systems: applications and challenges" *Journal of Separation Science*, 1-13.[Accepted: 20 February 2022, IF: 3.645(2020)]
279. Kit Wayne Chew\*, **Pau Loke Show\***. (2022) "Adapting microalgae-based strategies for sustainable green cities" *Biotechnology Journal*, 1-4. [Accepted 19 January 2022, IF: 4.677(2020)]
280. Jie Yang, Tengqi Gao, Feng Ge, Hao Sun, Zihang Cui, Zhen Wei, Shujun Wang, **Pau Loke Show**, Yang Tao, Wenbin Wang\*. (2022) "Porphyra yezoensis Sauces Fermented With Lactic Acid Bacteria: Fermentation Properties, Flavor Profile, and Evaluation of Antioxidant Capacity in Vitro" *Frontiers in Nutrition*, 8, 810460. [Accepted: 20 December 2021, IF: 6.576(2020)]
281. Shir Reen Chia, Mushtaq Ahmad\*, Shazia Sultana, Muhammad Zafar, Saira Asif, Awais Bokhari, Saifuddin Nomanbhay, Muhammad Mubashir, Kuan Shiong Khoo, **Pau Loke Show\***. (2022) "Green synthesis of biodiesel from Citrus medica seed oil using green nanoparticles of copper oxide" *Fuel*, 323, 124285. [Accepted 18 April 2022, IF: 6.609(2020)]
282. Uganeeswary Suparmaniam, Nagoor Basha Shaik, Man Kee Lam\*, Jun Wei Lim, Yoshimitsu Uemura, Siew Hoong Shuit, **Pau Loke Show**, Inn Shi Tan, Keat Teong Lee. (2022) "Valorization of fish bone waste as novel bioflocculant for rapid microalgae harvesting: Experimental evaluation and modelling using back propagation artificial neural network" *Journal of Water Process Engineering*, 47, 102808. [Accepted 17 April 2022, IF: 5.485(2020)]
283. Kit Wayne Chew, Aydin Berenjjan, **Pau Loke Show\***.(2022) "New Processes: Working towards a Sustainable Society" *Processes*, 10, 869. [Accepted 26 April 2022, IF:2.847(2020)]
284. Nahid Morad, Seyedeh-Masoumeh Taghizadeh, Nahal Hadi, Ali Ghanbariasad, Aydin Berenjjan, Kuan Shiong Khoo, Sunita Varjani, **Pau Loke Show\***, Alireza Ebrahiminezhad\*.(2022) "Synthesis of mesoporous antimicrobial herbal nanomaterial-carrier for silver nanoparticles and antimicrobial sensing" *Food and Chemical Toxicology*, 113077. [Accepted 23 April 2022, IF: 6.025(2020)]
285. Komal Rizwan, Muhammad Bilal\*, Yassine Slimani, **Pau Loke Show**, Sami Rtimi, Arpita Roy, Hafiz MN Iqbal\*.(2022) "Hydrogen-based sono-hybrid catalytic degradation and mitigation of industrially-originated dye-based pollutants" *International Journal of Hydrogen Energy*. [Accepted 20 March 2022, IF: 5.816(2020)]
286. Jialin Fu, Choe Peng Leo\*, **Pau Loke Show**.(2022) "Recent advances in the synthesis and applications of pH-responsive CaCO<sub>3</sub>" *Biochemical Engineering Journal*, 108446. [Accepted 21 April 2022, IF: 3.978(2020)]
287. Cham Q Pham, Tan Ji Siang, Ponnusamy Senthil Kumar, Zainal Ahmad, Leilei Xiao, Mahadi B Bahari, Anh Ngoc T Cao, Natarajan Rajamohan, Amjad Saleh Qazaq, Amit Kumar, **Pau Loke Show**, Dai-Viet N Vo\*. (2022) "Production of hydrogen and value-added carbon materials by catalytic methane decomposition: a review" *Environmental Chemistry Letters*, 1-21. [Accepted 1 April 2022, IF: 9.027(2020)]
288. Shir Reen Chia\*, Saifuddin Nomanbhay\*, Kit Wayne Chew, **Pau Loke Show**, Jassinnee Milano, Abd Halim Shamsuddin. (2022) "Indigenous Materials as Catalyst Supports for Renewable Diesel Production in Malaysia" *Energies*, 15, 2835. [Accepted 29 March 2022, IF: 3.004(2020)]

289. Muhammad Zain Siddiqui, Mahshab Sheraz, Umair Ali Toor, Ali Anus, Abid Mahmood, Muhammad Haseeb, Muhammad Ibrahim\*, Kuan Shiong Khoo\*, Vishno Vardhan Devadas, Muhammad Mubashir\*, Sami Ullah, **Pau Loke Show\***.(2022) "Recent approaches on the optimization of biomass gasification process parameters for product H<sub>2</sub> and syngas ratio: a review" *Environment, Development and Sustainability*, 1-29. [Accepted 7 March 2022]
290. JianSong Gan\*, Hafiz Iqbal, **Pau Loke Show**, Abbas Rahdar, Muhammad Bilal\*.(2022) "Upgrading recalcitrant lignocellulosic biomass hydrolysis by immobilized cellulolytic enzyme-based nanobiocatalytic systems: a review" *Biomass Conversion and Biorefinery*, 1-25. [Accepted 26 March 2022, IF: 4.987(2020)]
291. Hassan Karimi-Maleh\*, Hadi Beitollahi\*, P Senthil Kumar\*, Somayeh Tajik, Peyman Mohammadzadeh Jahani, Fatemeh Karimi\*, Ceren Karaman, Yasser Vasseghian, Mehdi Baghayeri, Jalal Rouhi, **Pau-Loke Show**, Saravanan Rajendran, Li Fu, Najmeh Zare.(2022) "Recent advances in carbon nanomaterials-based electrochemical sensors for food azo dyes detection" *Food and Chemical Toxicology*, 112961. [Accepted 22 March 2022, IF: 6.025(2020)]
292. Raj Kumar Oruganti, Keerthi Katam, **Pau Loke Show**, Venkataramana Gadhamshetty, Venkata Krishna Kumar Upadhyayula, Debraj Bhattacharyya\*.(2022) "A comprehensive review on the use of algal-bacterial systems for wastewater treatment with emphasis on nutrient and micropollutant removal" *Bioengineered*, 13, 10412-10453. [Accepted 17 March 2022, IF: 3.269(2020)]
293. Congyu Zhang, Fanghua Li, Shih-Hsin Ho\*, Wei-Hsin Chen\*, Duleeka Sandamali Gunarathne, **Pau Loke Show**. (2022) "Oxidative torrefaction of microalga *Nannochloropsis Oceanica* activated by potassium carbonate for solid biofuel production" *Environmental Research*, 212, 113389. [Accepted 27 April 2022, IF: 6.498(2020)]
294. Adila Fazliyana Aili Hamzah, Muhammad Hazwan Hamzah\*, Hasfalina Che Man, Nur Syakina Jamali, Shamsul Izhar Siajam, **Pau Loke Show**. (2022) "Biogas Production Through Mono-and Co-digestion of Pineapple Waste and Cow Dung at Different Substrate Ratios" *BioEnergy Research*, 1-12. [Accepted 24 May 2022, IF: 9.642(2020)]
295. Chaitanya Kumar Reddy Pocha, Wen Yi Chia, Kit Wayne Chew\*, Heli Siti Halimatul Munawaroh, **Pau Loke Show\***. (2022) "Current advances in recovery and biorefinery of fucoxanthin from *Phaeodactylum tricornutum*" *Algal Research*, 65, 102735. [Accepted 29 April 2022, IF: 4.401(2020)]
296. Hamed Jafarzadeh, Ceren Karaman\*, Afşin Güngör, Onur Karaman\*, **Pau-Loke Show**, Parisa Sami, Abbasali Abouei Mehrizi\*. (2022) "Hydrogen production via sodium borohydride hydrolysis catalyzed by cobalt ferrite anchored nitrogen-and sulfur co-doped graphene hybrid nanocatalyst: Artificial neural network modeling approach" *Chemical Engineering Research and Design*, 183, 557-566. [Accepted 26 May 2022, IF: 3.739(2020)]
297. Saravanan Rajendran\*, AK Priya, P Senthil Kumar, Tuan KA Hoang, Karthikeyan Sekar, Kar Yeen Chong, Kuan Shiong Khoo, Hui Suan Ng, **Pau Loke Show\***. (2022) "A critical and recent developments on adsorption technique for removal of heavy metals from wastewater-A review" *Chemosphere*, 303, 135146. [Accepted 25 May 2022, IF: 7.086(2020)]
298. Vivek Narisetty, Le Zhang, Jingxin Zhang, Carol Sze Ki Lin, Yen Wah Tong, **Pau Loke Show**, Shashi Kant Bhatia, Ashish Misra, Vinod Kumar\*.(2022) "Fermentative Production of 2, 3-Butanediol using Bread Waste–A Green Approach for Sustainable Management of Food Waste" *Bioresource Technology*, 358, 127381. [Accepted 24 May 2022, IF: 9.642(2020)]
299. Jamil A Buledi, Amber R Solangi\*, Ali Hyder, Nadir H Khand, Saba A Memon, Arfana Mallah, Nasrullah Mahar, Elena Niculina Dragoi, **Pau-Loke Show**, Marzyeh Behzadpour, Hassan Karimi-

- Maleh\*. (2022) "Selective oxidation of amaranth dye in soft drinks through tin oxide decorated reduced graphene oxide nanocomposite based electrochemical sensor" *Food and Chemical Toxicology*, 165, 113177. [Accepted, 21 May 2022, IF: 6.025(2020)]
300. **Pau Loke Show\***. (2022) "Global market and economic analysis of microalgae technology: Status and perspectives" *Bioresource Technology*, 357, 127329. [Accepted 13 May 2022, 9.642(2020)]
301. Raminda Rattanaamonkulchai, Thunyathon Kludpantanapan, Atthapon Srifra, Wanida Koo-Amornpattana, Weerawut Chaiwat, Chularat Sakdaronnarong, Tawatchai Charinpanitkul, Suttichai Assabumrungrat, Suwimol Wongsakulphasatch, **Pau-Loke Show**, Ryo Watanabe, Choji Fukuhara, Sakhon Ratchahat\*. (2022) "Simultaneous production of hydrogen and carbon nanotubes from biogas over mono-and bimetallic catalyst" *Journal of Environmental Chemical Engineering*, 107910. [Accepted 10 May 2022, IF: 5.909(2020)]
302. Vishal Hadiya, Kartik Popat, Shaili Vyas, Sunita Varjani\*, Meththika Vithanage, Vijai Kumar Gupta, Avelino Núñez Delgado, Yaoyu Zhou, **Pau Loke Show**, Muhammad Bilal, Zhien Zhang, Mika Sillanpää, Swayansu Sabyasachi Mohanty, Zeel Patel. (2022) "Biochar production with amelioration of Microwave-assisted pyrolysis: Current scenario, drawbacks and perspectives" *Bioresource Technology*, 355, 127303. [Accepted 8 May 2022, IF: 9.642(2020)]
303. Umair Azhar, Muhammad Sohail Bashir, Muhammad Babar\*, Muhammad Arif\*, Afaq Hassan, Asim Riaz, Rana Mujahid, Muhammad Sagir, Saadat Ullah Khan Suri, **Pau Loke Show**, Jo-Shu Chang, Kuan Shiong Khoo, Muhammad Mubashir\*.(2022) "Template-based textural modifications of polymeric graphitic carbon nitrides towards waste management" *Chemosphere*, 302, 134792. [Accepted 27 April 2022, IF: 7.086(2020)]
304. Jeffrey Dankwa Ampah, Abdulfatah Abdu Yusuf, Ephraim Bonah Agyekum, Sandylove Afrane, Chao Jin, Haifeng Liu\*, Islam Md Rizwanul Fattah, **Pau Loke Show**, Mokhtar Shouran, Monier Habil\*, Salah Kamel. (2022) "Progress and Recent Trends in the Application of Nanoparticles as Low Carbon Fuel Additives—A State of the Art Review" *Nanomaterials*, 12, 1515. [Accepted 26 April 2022, IF: 5.076(2020)]
305. Farhana Bibi, Muhammad Ishtiaq Ali, Mushtaq Ahmad, Awais Bokhari\*, Kuan Shiong Khoo, Muhammad Zafar, Saira Asif, Muhammad Mubashir\*, Ning Han, **Pau Loke Show\***. (2022) "Production of lipids biosynthesis from *Tetrademus nygaardii* microalgae as a feedstock for biodiesel production" *Fuel*, 326, 124985. [Accepted 20 June 2022, IF: 8.035(2021)]
306. Nazim Hussain, Zulqarnain Baqar, Mehvish Mumtaz, Ahmed H El-Sappah, **Pau Loke Show**, Hafiz MN Iqbal, Sunita Varjani, Muhammad Bilal\*. (2022) "Bioprospecting fungal-derived value-added bioproducts for sustainable pharmaceutical applications" *Sustainable Chemistry and Pharmacy*, 29, 100755. [Accepted 15 June 2022, IF: 5.464(2021)]
307. SK Kireeti, Gadepalli Ravikiran Sastry, SK Gugulothu\*, B Deepanraj\*, **Pau Loke Show**, Ao Xia, M Arthi. (2022) "Numerical investigations on the implication of hydrogen fuel jet injection pressure on the performance characteristics in a multi-strut in a double-dual cavity-based scramjet combustor" *Fuel*, 324, 124528. [Accepted 4 May 2022, IF: 8.035(2021)]
308. Umair Azhar, Muhammad Sohail Bashir, Muhammad Babar\*, Muhammad Arif\*, Afaq Hassan, Asim Riaz, Rana Mujahid, Muhammad Sagir, Saadat Ullah Khan Suri, **Pau Loke Show**, Jo-Shu Chang, Kuan Shiong Khoo, Muhammad Mubashir\*. (2022) "Template-based textural modifications of polymeric graphitic carbon nitrides towards wastewater treatment" *Chemosphere*, 302, 134792. [Accepted 27 April 2022, IF: 8.943(2021)]
309. Zengling Ma\*, Catarina Meliana, Heli Siti Halimatul Munawaroh, Ceren Karaman, Hassan

- Karimi-Maleh, Sze Shin Low\*, **Pau Loke Show\***. (2022) "Recent advances in the analytical strategies of microbial biosensor for detection of pollutants" *Chemosphere*, 306, 135515. [Accepted 25 June 2022, IF: 8.943(2021)]
310. Lai Fatt Chuah\*, Kit Wayne Chew, Awais Bokhari, Muhammad Mubashir, **Pau Loke Show\***. (2022) "Biodegradation of crude oil in seawater by using a consortium of symbiotic bacteria" *Environmental Research*, 213, 113721. [Accepted 15 June 2022, IF: 8.431(2021)]
311. Chor Gene Cheah, Wen Yi Chia, Shuet Fen Lai, Kit Wayne Chew\*, Shir Reen Chia, **Pau Loke Show**. (2022) "Innovation designs of industry 4.0 based solid waste management: Machinery and digital circular economy" *Environmental Research*, 213, 113619. [Accepted 3 June 2022, IF: 8.431(2021)]
312. Chung Hong Tan, Saifuddin Nomanbhay\*, Abd Halim Shamsuddin, Young-Kwon Park, Heriberto Hernández-Cocoletzi, **Pau Loke Show\***. (2022) "Current Developments in Catalytic Methanation of Carbon Dioxide—A Review" *Frontiers in Energy Research*, 9, 795423. [Accepted 28 December 2021, IF: 3.858(2021)]
313. Salwa Salsabiela, Ambar Sukma Sekarina, Hanifa Bagus, Aulia Audiensi, Farah Azizah, Windy Heristika, Eko Susanto, Heli Siti Halimatul Munawaroh, **Pau Loke Show**, Andriati Ningrum\*. (2022) "Development of Edible Coating from Gelatin Composites with the Addition of Black Tea Extract (*Camellia sinensis*) on Minimally Processed Watermelon (*Citrullus lanatus*)" *Polymers*, 13, 2628. [Accepted 22 June 2022, IF: 4.967(2021)]
314. Ghulam Murshid, Abulhassan Ali\*, Sahil Garg, Said Al-Jabri, Muhammad Mubashir, **Pau Loke Show\***(2022) "Model analysis for the development of piperazine activated sodium sarcosinate solutions for environmental sustainability" *Sustainable Energy Technologies and Assessments*, 53, 102509. [Accepted 27 June 2022, IF: 7.632(2021)]
315. Rachel Sonia Lourdes, Sze Yin Cheng, Kit Wayne Chew\*, Zengling Ma\*, **Pau Loke Show**.(2022) "Prospects of microbial enhanced oil recovery: Mechanisms and environmental sustainability" *Sustainable Energy Technologies and Assessments*, 53, 102527. [Accepted 14 July 2022, IF: 7.632(2021)]
316. Maleeha Manzoor, Ali Hussain, Asma Chaudhary, Peer M Schenk, Balakrishnan Deepanraj\*, **Pau Loke Show**. (2022) "Biodiesel quality assessment of microalgae cultivated mixotrophically on sugarcane bagasse" *Sustainable Energy Technologies and Assessments*, 53, 102359. [Accepted 30 May 2022, IF: 7.632(2021)]
317. SK Kireeti, Gadepalli Ravikiran Sastry, SK Gugulothu\*, B Deepanraj, **Pau Loke Show**, Ao Xia, M Arthi. (2022) "Numerical investigations on the implication of hydrogen fuel jet injection pressure on the performance characteristics in a multi-strut in a double-dual cavity-based scramjet combustor" *Fuel*, 324, 124528. [Accepted 4 May 2022, IF: 8.035(2021)]
318. AF Aili Hamzah, MH Hamzah\*, NI Mazlan, H Che Man, NS Jamali, SI Sijam, **PL Show**. (2022) "Optimization of subcritical water pre-treatment for biogas enhancement on co-digestion of pineapple waste and cow dung using the response surface methodology" *Waste Management*, 150, 98-109. [Accepted 30 June 2022, IF: 8.816(2021)]
319. [Retracted] Ming Li, Yang Wang, Zhangfeng Shen, Mingshu Chi, Chen Lv, Chenyang Li, Li Bai\*, Hamdy Khamees Thabet, Salah M El-Bahy, Mohamed M Ibrahim, Lai Fatt Chuah, **Pau Loke Show**, Xiaolin Zhao\*.(2022) "Investigation on the evolution of hydrothermal biochar" *Chemosphere*, 135774. [Accepted 15 July 2022, IF: 8.943(2021)]
320. Muhammad Arif, Muhammad Babar, Umair Azhar, Muhammad Sagir, Muhammad Bilal Tahir, Muhammad Asim Mushtaq, Ghulam Yasin, Muhammad Mubashir, Jun Wei Roy Chong, Kuan Shiong Khoo, **Pau Loke Show\***. (2022) "Rational design and modulation strategies of Mo-based

- electrocatalysts and photo/electrocatalysts towards nitrogen reduction to ammonia (NH<sub>3</sub>)” *Chemical Engineering Journal*, 138320. [Accepted 28 July 2022, IF: 16.744(2021)]
321. Thi Ngoc Thu Tran, Thi Minh Hanh Truong\*, Thi Dong Phuong Nguyen, Vung Xuan Bui, Do Thi Thao, Tran-van Luan, Kuan Shiong Khoo, Kit Wayne Chew, **Pau Loke Show\***. (2022) “Enrichment of soy isoflavone extracts through macroporous resin for characterization of toxicity and estrogenic activities” *Journal of Food Science and Technology*, 1-10. [Accepted 18 May 2022, IF: 3.117(2021)]
322. Zahid Ullah, Muzammil Khan, Imran Khan, Asif Jamil, Umair Sikandar\*, Muhammad Taqi Mehran, Muhammad Mubashir, Pei En Tham, Kuan Shiong Khoo\*, **Pau Loke Show\***. (2022) “Recent Progress in Oxidative Dehydrogenation of Alkane (C<sub>2</sub>-C<sub>4</sub>) to Alkenes in a Fluidized Bed Reactor Under Mixed Metallic Oxide Catalyst” *Journal of Inorganic and Organometallic Polymers and Materials*, 1-13. [Accepted 24 June 2022, IF: 3.518(2021)]
323. Shafiq Uz Zaman, Sikander Rafiq\*, Abulhassan Ali, Muhammad Shozab Mehdi, Amber Arshad, Saif-ur Rehman, Nawshad Muhammad, Muhammad Irfan, Muhammad Shahzad Khurram, Muhammad Khaliq U Zaman, Abdulkader S Hanbazazah\*, Hooi Ren Lim, **Pau Loke Show\***. (2022) “Recent advancement challenges with synthesis of biocompatible hemodialysis membranes” *Chemosphere*, 135626. [Accepted 3 July 2022, IF: 8.943(2021)]
324. Imran Ahmad, Norhayati Abdullah\*, Iwamoto Koji, Ali Yuzir, Shaza Eva Mohamad, **Pau Loke Show**, Wai Yan Cheah, Kuan Shiong Khoo\*. (2022) “The role of restaurant wastewater for producing bioenergy towards a circular bioeconomy: A review on compositions, environmental impacts, and sustainable integrated management” *Environmental Research*, 214, 113854. [Accepted 6 July 2022, IF: 8.431(2021)]
325. Abdulkader S Hanbazazah, Abulhassan Ali\*, Mustafa Alsaady, Yuying Yan, Ghulam Murshid, Kuan Shiong Khoo, Muhammad Mubashir, Aymn Abdulrahman, Anas Ahmed, Abdullah Bin Mahfouz, Ahmed Alsaadi, **Pau Loke Show\***. (2022) “Optimization and experimental analysis of sustainable solar collector efficiency under the influence of magnetic nanofluids” *Applied Nanoscience*, 1-12. [Accepted 3 June 2022, IF: 3.869(2021)]
326. [Retracted] Jia Xin Yap, CP Leo\*, CJC Derek, Nazlina Haiza Mohd Yasin, **Pau Loke Show**. (2022) “Air-liquid interface cultivation of *Navicula incerta* using hollow fiber membranes” *Chemosphere*, 307, 135625. [Accepted 3 July 2022, IF: 8.943(2021)]
327. Yong Yang\*, Hamayun Khan, Shixiong Gao, Abdul Kabir Khalil, Nisar Ali, Adnan Khan, **Pau Loke Show**, Muhammad Bilal\*, Hammad Khan. (2022) “Fabrication, characterization, and photocatalytic degradation potential of chitosan-conjugated manganese magnetic nano-biocomposite for emerging dye pollutants” *Chemosphere*, 135647. [Accepted 5 July 2022, IF: 8.943(2021)]
328. Lalitha Gnanasekaran\*, Madhappan Santhamoorthy, Mu Naushad, Zeid A AlOthman, Matias Soto-Moscoso, **Pau Loke Show**, Kuan Shiong Khoo. (2022) “Photocatalytic removal of food colourant using NiO/CuO heterojunction nanomaterials” *Food and Chemical Toxicology*, 167, 113277. [Accepted 3 July 2022, IF: 5.572(2021)]
329. Hongyan Ren\*, Guoqing Zhu, Jing Ni, Mingwei Shen, **Pau Loke Show**, Fubao Fuelbiol Sun. (2022) “Enhanced photoautotrophic growth of *Chlorella vulgaris* in starch wastewater through photo-regulation strategy” *Chemosphere*, 307, 135533. [Accepted 26 June 2022, IF: 8.943(2021)]
330. Roselin Ranjitha Mathiarasu, Kurinjinathan Panneerselvam, Bhuvanewari Selvaraj, Selvakumar Dharmaraj, Veeramuthu Ashokkumar\*, **Pau Loke Show**, Mary George\*. (2022) “Chemiresistive La-doped BaTiO<sub>3</sub> microspheres for ambient-temperature formaldehyde gas

sensing" Sustainable Energy Technologies and Assessments, 53, 102604. [Accepted 2 August 2022, IF: 7.632(2021)]

331. Bilal Hussain, Muhammad Sajad, Hassan Usman, Khalid Al-Ghanim, Mian Nadeem Riaz, Aydin Berenjian, Shahid Mahboob\*, **Pau Loke Show\***.(2022) "Assessment of hepatotoxicity and nephrotoxicity in Cirrhinus mrigala induced by trypan blue-An azo dye" Environmental Research, 215, 114120. [Accepted 13 August 2022, IF: 8.431(2021)]
332. Jian Ke, Yuhui Ge, Qiulian Yang, Yanhua Liu, **Pau-Loke Show**, Ruixin Guo\*, Jianqiu Chen\*.(2022) "Degradation of sulfamethazine using sludge-derived photocatalysts from dyeing industry and livestock farm: preparation and mechanism" Journal of Hazardous Materials, 440, 129837. [Accepted 22 August 2022, IF:14.224(2021)]
333. Youping Xie, Kuan Shiong Khoo, Kit Wayne Chew, Vishno Vardhan Devadas, Sue Jiun Phang, Hooi Ren Lim, Saravanan Rajendran, **Pau Loke Show\***. (2022) "Advancement of wastewater bioremediation technologies via artificial and microalgae photosynthesis Bioresource" Technology,363, 127830. [Accepted 21 August 2022, IF: 11.889(2021)]
334. Anwasha Khanra, Shrasti Vasistha, Monika Prakash Rai, Wai Yan Cheah, Kuan Shiong Khoo, Kit Wayne Chew, Lai Fatt Chuah, **Pau Loke Show\***.(2022) "Green bioprocessing and applications of microalgae-derived biopolymers as a renewable feedstock: Circular bioeconomy approach" Environmental Technology & Innovation, 28, 102872. [Accepted 8 August 2022, IF: 7.758(2021)]
335. Zhi Wei Tiong, Hemamalini Rawindran, Wai Hong Leong, Chin Seng Liew, Yi Ying Wong, Worapon Kiatkittipong\*, Eman Alaaeldin Abdelfattah, **Pau Loke Show**, Anisa Ur Rahmah, Woei Yenn Tong, Jun Wei Lim\*.(2022) "Impact of Various Visible Spectra on Attached Microalgal Growth on Palm Decanter Cake in Triggering Protein, Carbohydrate, and Lipid to Biodiesel Production" Processes, 10. [Accepted 9 August 2022, IF: 3.352(2021)]
336. Angela Paul Peter, Guo Yong Yew, Doris Ying Ying Tang, Apurav Krishna Koyande, Kit Wayne Chew\*, **Pau Loke Show\***.(2022) "Microalgae's prospects in attaining sustainable economic and environmental development" Journal of Biotechnology, 357, 18-27. [Accepted 10 August 2022, IF: 3.595(2021)]
337. Jawaher AlYammahi, K Rambabu\*, A Thanigaivelan, G Bharath, Shadi W Hasan, **Pau Loke Show**, Fawzi Banat. (2022) "Advances of non-conventional green technologies for phyto-saccharides extraction: current status and future perspectives" Phytochemistry Reviews, 1-22. [Accepted 14 July 2022, IF: 7.741(2021)]
338. Angela Paul Peter, Kit Wayne Chew, Apurav Krishna Koyande, Heli Siti Halimatul Munawaroh, Amit Bhatnagar, Yang Tao, Chihe Sun, Fubao Sun, Zengling Ma\*, **Pau Loke Show\***. (2022) "Integrated microalgae culture with food processing waste for wastewater remediation and enhanced biomass productivity" Chinese Chemical Letters. [Accepted 2 August 2022, IF: 8.455(2021)]
339. Dai-Lun Cai, Dinh Thi Hong Thanh, **Pau-Loke Show**, Su-Chun How, Chen-Yaw Chiu, Michael Hsu, Shir Reen Chia, Kuei-Hsiang Chen\*, Yu-Kaung Chang\*.(2022) "Studies of Protein Wastes Adsorption by Chitosan-Modified Nanofibers Decorated with Dye Wastes in Batch and Continuous Flow Processes: Potential Environmental Applications" Membranes, 12, 759. [Accepted 30 July 2022, IF: 4.562(2021)]
340. Omar Ashraf ElFar, Nashiru Billa, Hooi Ren Lim, Kit Wayne Chew\*, Wai Yan Cheah, Heli Siti Halimatul Munawaroh, Deepanraj Balakrishnan, **Pau Loke Show**. (2022) "Advances in delivery methods of Arthrospira platensis (spirulina) for enhanced therapeutic outcomes"

- Bioengineered,13, 14681-14718. [Accepted 08 Jul 2022, IF: 6.832(2021)]
341. Areej Javed, Afaq Hassan, Muhammad Babar\*, Umair Azhar\*, Asim Riaz, Rana Mujahid, Tausif Ahmad, Muhammad Mubashir, Hooi Ren Lim, **Pau Loke Show\***, Kuan Shiong Khoo\*. (2022) "A Comparison of the Exergy Efficiencies of Various Heat-Integrated Distillation Columns" *Energies*, 15, 6498. [Accepted 29 August 2022, IF: 3.252(2021)]
342. **Pau Loke Show\***, Kit Wayne Chew\*, Kuan Shiong Khoo\*, Atthasit Tawai. (2022) "Effective solvents for proteins recovery from microalgae" *E3S Web of Conferences*, 355, 02009.
343. Fazal Haq, Arshad Farid, Naveed Ullah, Mehwish Kiran, Rizwan Ullah Khan, Tariq Aziz, Sahid Mehmood, Muhammad Haroon, Muhammad Mubashir, Awais Bokhari\*, Lai Fatt Chuah\*, **Pau Loke Show\***. (2022) "A study on the uptake of methylene blue by biodegradable and eco-friendly carboxylated starch grafted polyvinyl pyrrolidone" *Environmental Research*, 215, 114241. [Accepted 28 August 2022, IF: 8.431(2021)]
344. Farhana Nosheen, Nazia Malik, Zaid Mehmood, Fariha Jabeen, Abid Mahmood\*, Muhammad Ibrahim\*, Awais Bokhari\*, Muhammad Mubashir\*, Lai Fatt Chuah\*, **Pau Loke Show\*** (2022) "Biomedical waste management associated with infectious diseases among health care professionals in apex hospitals of a typical south Asian city" *Environmental Research*, 215, 114240. [Accepted 28 August 2022, IF: 8.431(2021)]
345. Youping Xie, Kuan Shiong Khoo, Kit Wayne Chew, Vishno Vardhan Devadas, Sue Jiun Phang, Hooi Ren Lim, Saravanan Rajendran, **Pau Loke Show\***. (2022) "Advancement of renewable energy technologies via artificial and microalgae photosynthesis" *Bioresource Technology*, 363, 12783. [Accepted 21 August 2022, IF: 11.889(2021)]
346. Wan Adibah Wan Mahari, Wan Aizuddin Wan Razali, Hidayah Manan, Mursal Abdulkadir Hersi, Sairatul Dahlianis Ishak, Wee Cheah, Chan Juinn Chieh Derek, Christian Sonne, **Pau Loke Show\***, Su Shiung Lam\*. (2022) "Recent advances on microalgae cultivation for simultaneous biomass production and removal of wastewater pollutants to achieve circular economy" *Bioresource Technology*, 364, 128085. [Accepted 4 October 2022, 11.889(2021)]
347. Zengling Ma, Wai Yan Cheah, I-Son Ng, Jo-Shu Chang\*, Min Zhao\*, **Pau Loke Show\***. (2022) "Microalgae-based biotechnological sequestration of carbon dioxide for net zero emissions" *Trends in Biotechnology*. [IF: 21.942(2021)]
348. Guowei Wu, Dingling Zhuang, Kit Wayne Chew\*, Tau Chuan Ling\*, Kuan Shiong Khoo\*, Dong Van Quyen\*, Shuying Feng\*, **Pau Loke Show\***. (2022) "Current Status and Future Trends in Removal, Control, and Mitigation of Algae Food Safety Risks for Human Consumption" *Molecules*, 27, 6633. [Accepted 3 October 2022, IF: 4.927(2021)]
349. Imran Ahmad\*, Natasha Nabila Binti Ibrahim\*, Norhayati Abdullah\*, Iwamoto Koji\*, Shaza Eva Mohama\*, Kuan Shiong Khoo\*, Wai Yan Cheah\*, Tau Chuan Ling\*, **Pau Loke Show\***. (2022) "Bioremediation strategies of palm oil mill effluent and landfill leachate using microalgae cultivation: An approach contributing towards environmental sustainability" *Chinese Chemical Letters*, 107854. [Accepted 23 September 2022, IF: 8.455(2021)]
350. Mintallah Mousa A Allouzi, Safa Allouzi, Balsam Al-Salaheen, Kuan Shiong Khoo\*, Saravanan Rajendran, Revathy Sankaran, Nguyen Sy-Toan, **Pau Loke Show\***. (2022) "Current advances and future trend of nanotechnology as microalgae-based biosensor" *Biochemical Engineering Journal*, 108653. [Accepted 27 September 2022, IF: 4.446(2021)]
351. Keh-Kim Kee\*, Huong-Yong Ting\*, Yun-Seng Lim\*, Jackie-Tiew-Wei Ting\*, Marcella Peter\*, Khairunnisa Ibrahim\*, **Pau Loke Show\***. (2022) "Feasibility of UTS Smart Home to Support

Sustainable Development Goals of United Nations (UN SDGs): Water and Energy Conservation” Sustainability, 12242. [Accepted 21 September 2022, IF: 3.889(2021)]

352. Hebin Xu, Qianwen Fei, Sivakumar Manickam, Dandan Li, Hongmei Xiao, Yongbin Han, **Pau Loke Show**, Guohua Xu, Yang Tao\*. (2022) “Mechanistic study of the solid-liquid extraction of phenolics from walnut pellicle fibres enhanced by ultrasound, microwave and mechanical agitation forces” Chemosphere, 309, 136451. [Accepted 11 September 2022, IF: 8.943(2021)]
353. Mustafa Alsaady, Suhaib Umer Ilyas, Abulhassan Ali\*, Khuram Maqsood, Yuying Yan, **Pau Loke Show\***. (2022) “Rheological Characteristics and Environmental Remediation Using Fe<sub>3</sub>O<sub>4</sub>-SiC Hybrid Nanomaterials in Heat Transfer Oil: Experimental Evaluation and Modeling” Journal of Inorganic and Organometallic Polymers and Materials, 1-13. [Accepted 24 August 2022, IF:3.518(2021)]
354. Bingjie Zhang, Meirong Chen, Bingjie Xia, Zhaoxin Lu, Kuan Shiong Khoo, Pau Loke Show, Fengxia Lu\*. (2022) “Characterization and Preliminary Application of a Novel Lipxygenase from *Enterovibrio norvegicus*” Foods, 11, 2864. [Accepted 12 September 2022, IF: 5.561(2021)]
355. Binbin Chen, Zongrun Gu, Mingjiang Wu, Zengling Ma\*, Hooi Ren Lim\*, Kuan Shiong Khoo\*, **Pau Loke Show\***. (2022) “Advancement pathway of biochar resources from macroalgae biomass: A review” Biomass and Bioenergy, 167, 106650. [Accepted 30 October 2022, IF: 5.774(2021)]
356. Luyao Wang, Hongru Jiang, Hui Wang, **Pau Loke Show**, Andrei Ivanets, Dan Luo, Chongqing Wang\*. (2022) “MXenes as Heterogeneous Fenton-like Catalysts for Removal of Organic Pollutants: A Review” Journal of Environmental Chemical Engineering, 10, 108954. [Accepted 9 November 2022, IF: 7.968(2021)]
357. Dong Feng, Ao Xia\*, Shuai Wu, Yun Huang, Xianqing Zhu, Xun Zhu, Balakrishnan Deepanraj, **Pau-Loke Show**, Qiang Liao\*. (2022) “Magnetite as a means to enhance anaerobic digestion of furfural” Journal of Cleaner Production, 135139. [Accepted 7 November 2022, IF:11.072(2021)]
358. Dong Feng, Ao Xia\*, Yun Huang, Xianqing Zhu, Xun Zhu, **Pau-Loke Show**, Qiang Liao\*. (2022) “Continuous electro methanogenesis of propionate wastewater: Effect of external voltage and hydraulic retention time” Chemical Engineering Journal, 140267. [Accepted 5 November 2022, IF: 16.744(2021)]
359. K Rambabu\*, Amos Avornyo, T Gomathi, A Thanigaivelan, **Pau Loke Show**, Fawzi Banat. (2022) “Phytoremediation for carbon neutrality and circular economy: Potential, trends, and challenges” Bioresource Technology, 367, 128257. [Accepted 28 October 2022, IF: 11.889(2021)]
360. Alvin B Culaba\*, Andres Philip Mayol, Jayne Lois G San Juan, Aristotle T Ubando, Argel A Bandala, Ronnie S Concepcion II, Melchizedek Alipio, Wei-Hsin Chen, **Pau Loke Show**, Jo-Shu Chang. (2022) “Design of biorefineries towards carbon neutrality: A critical review” Bioresource Technology, 128256. [Accepted 28 October 2022, IF: 11.889(2021)]
361. Daniel Joe Dailin\*, Shanmugaprakasham Selvamani, Khaw Michelle, Yanti Maslina Mohd Jusoh, Lai Fatt Chuah\*, Awais Bokhari, Hesham Ali El-Enshasy, Muhammad Mubashir, **Pau Loke Show\***. (2022) “Production of high-value-added exopolysaccharide by biotherapeutic potential *Lactobacillus reuteri* strain” Biochemical Engineering Journal, 188, 108691. [Accepted 21 October 2022, IF: 4.446(2021)]

362. Mamoona Sadia, Abid Mahmood\*, Muhammad Ibrahim\*, Muhammad Kashif Irshad, Abul Hassan Ali Quddusi, Awais Bokhari, Muhammad Mubashir, Lai Fatt Chuah\*, **Pau Loke Show\***. (2022) "Microplastics pollution from wastewater treatment plants: A critical review on challenges, detection, sustainable removal techniques and circular economy" *Environmental Technology & Innovation*, 28, 102946. [Accepted 17 October 2022, IF: 7.758(2021)]
363. Louella Concepta Goveas, Sneha Nayak, Ramesh Vinayagam, **Pau Loke Show**, Raja Selvaraj\*. (2022) "Microalgal remediation and valorisation of polluted wastewaters for zero-carbon circular bioeconomy" *Bioresource Technology*, 365, 128169. [Accepted 17 October 2022, IF: 11.889(2021)]
364. Azalea Dyah Maysarah Satya, Wai Yan Cheah\*, Sara Kazemi Yazdi, Yu-Shen Cheng, Kuan Shiong Khoo, Dai-Viet N Vo, Xuan Dong Bui, Meththika Vithanage, **Pau Loke Show\***. (2022) "Progress on microalgae cultivation in wastewater for bioremediation and circular bioeconomy" *Environmental Research*, 218, 114948. [Accepted 24 November 2022, IF: 8.431(2021)]
365. Hina Kamal, Hosam M Habib\*, Asgar Ali, **Pau Loke Show**, Apurav Krishna Koyande, Ehab Kheadr, Wissam H Ibrahim\*. (2022) "Food waste valorization potential: Fiber, sugar, and colour profiles of 18 date seed varieties (Phoenix dactylifera, L.)" *Journal of the Saudi Society of Agricultural Sciences*. [Accepted 18 November 2022]
366. Chihe Sun, Guojie Song, Zhenying Pan, Maobing Tu, Mahshid Kharaziha, Xueming Zhang, **Pau-Loke Show**, Fubao Sun\*. (2022) "Advances in organosolv modified components occurring during the organosolv pretreatment of lignocellulosic biomass" *Bioresource Technology*, 368, 128356. [Accepted 16 November 2022, IF: 11.889(2021)]
367. Swayansu Sabyasachi Mohanty, Shaili Vyas, Yamini Koul, Priya Prajapati, Sunita Varjani\*, Jo-Shu Chang, Muhammad Bilal, Konstantinos Moustakas, **Pau Loke Show**, Meththika Vithanage. (2022) "Tricks and tracks in waste management with a special focus on municipal landfill leachate: Leads and obstacles" *Science of The Total Environment*, 160377. [Accepted 17 November 2022, IF: 10.754(2021)]
368. Muhammad Nabeel Haider, Chen-Guang Liu, Tanveer A Tabish, Deepanraj Balakrishnan, **Pau-Loke Show**, Shaza Yehya Abdulhamed Qattan, Munazza Gull, Muhammad Aamer Mehmood\*. (2022) "Resource Recovery of the Wastewater-Derived Nutrients into Algal Biomass Followed by Its Cascading Processing to Multiple Products in a Circular Bioeconomy Paradigm" *Fermentation*, 8, 650. [Accepted 15 November 2022, IF: 5.123(2021)]
369. Sabiha Mehmood, Noshin Ilyas\*, Nosheen Akhtar, Wen Yi Chia, Ali A Shati, Mohammad Y Alfaifi, RZ Sayyed, Yustina M Pusparizkita, Heli Siti Halimatul Munawaroh, Pham Minh Quan, **Pau Loke Show\***. (2022) "Structural breakdown and phytotoxic assessments of PE degradation through acid hydrolysis, starch addition and Pseudomonas aeruginosa bioremediation" *Environmental Research*, 217, 114784. [Accepted 9 November 2022, IF: 8.431(2021)]
370. Adrian Chiong Yuh Tiong, Inn Shi Tan\*, Henry Chee Yew Foo, Man Kee Lam, Hisham Ben Mahmud, Keat Teong Lee, **Pau Loke Show**. (2022) "Study on the synergism of cellulose nanocrystals and Janus graphene oxide for enhanced oil recovery" *Journal of Petroleum Science and Engineering*, 111242. Accepted 10 November 2022, IF: 5.168(2021)]

#### Book Chapter:

371. Marttin Paulraj Gundupalli, Prapakorn Tantayotai, ST Anne Sahithi, Santi Chuetor, **Pau-Loke Show**, Malinee Sririyanun. (2022) "Ionic liquid assisted pretreatment to improve cellulose fractionation of lignocellulosic biomass" in *Ionic Liquid-Based Technologies for Environmental Sustainability*. Elsevier.
372. Omar Ashraf ElFar, Nurul Syahirah Mat Aron, Kit Wayne Chew, **Pau Loke Show**. (2022) "Sustainable management of algal blooms in ponds and rivers" (pp 431-444) in *Biomass, Biofuels, Biochemicals*. Elsevier.
373. Lai Fatt Chuah, Jiří Jaromír Klemeš, Awais Bokhari, Saira Asif, Yoke Wang Cheng, Chi Cheng Chong, **Pau Loke Show**. (2022) "A review of intensification technologies for biodiesel production" (pp87-116) in *Biofuels and Biorefining*. Elsevier.
374. Fazril Ideris, Mei Yin Ong, Jassinnee Milano, Mohd Faiz Muaz Ahmad Zamri, Saifuddin Nomabhay, Abd Halim Shamsuddin, Teuku Meurah Indra Mahlia, **Pau Loke Show**. (2022) "Chapter 2: The Potential of Microalgae for Environmental Biotechnology" in *Microalgae for Environmental Biotechnology: Smart Manufacturing and Industry 4.0 Applications*. CRC Press.
375. Xiao Gui Xing, Gao Ya Qian, Sook Sin Chan, Guo Rui Xin, Kit Wayne Chew, **Pau Loke Show**. (2022) "Chapter 3: Current Issues and Challenges of Applying Microalgae in Environmental Biotechnology" in *Microalgae for Environmental Biotechnology: Smart Manufacturing and Industry 4.0 Applications*. CRC Press.
376. Vimal Angela Thiviyathan, Hooi Ren Lim, Pei En Tham, **Pau Loke Show**. (2022) "Chapter 4: How Far Has the Development for Industrials Internet of Things (IoT) in Microalgae" in *Microalgae for Environmental Biotechnology: Smart Manufacturing and Industry 4.0 Applications*. CRC Press.
377. Wai Yan Cheah, Tengku Nilam Baizura Tengku Ibrahim, Nurul Syahirah Mat Aron, Wai Siong Chai, **Pau Loke Show**. (2022) "Chapter 5: Understanding Environmental Biotechnology 4.0" in *Microalgae for Environmental Biotechnology: Smart Manufacturing and Industry 4.0 Applications*. CRC Press.
378. Nur Azalina Suzianti Feisal, Noor Haziqah Kamaludin, Dingling Zhuang, Kit Wayne Chew, **Pau Loke Show**. (2022) "Chapter 6: What Are Smart Microalgae?" in *Microalgae for Environmental Biotechnology: Smart Manufacturing and Industry 4.0 Applications*. CRC Press.
379. Vicky Tan Wee Gee, Kuan Shiong Khoo, **Pau Loke Show**. (2022) "Chapter 7: Towards the Digitalization of Environmental Biotechnology" in *Microalgae for Environmental Biotechnology: Smart Manufacturing and Industry 4.0 Applications*. CRC Press.
380. Shazia Ali, Kuan Shiong Khoo, Hooi Ren Lim, Hui Suan Ng, **Pau Loke Show**. (2022) "Chapter 8: Smart Factory of Microalgae in Environmental Biotechnology" in *Microalgae for Environmental Biotechnology: Smart Manufacturing and Industry 4.0 Applications*. CRC Press.
381. Leong Wei, Wen Yi Chia, Kit Wayne Chew, **Pau Loke Show**. (2022) "Chapter 9: Biomanufacturing in Microalgae Industry" in *Microalgae for Environmental Biotechnology: Smart Manufacturing and Industry 4.0 Applications*. CRC Press.
382. Akshara Ann Varghese, Doris Ying Ying Tang, Sze Shin Low, **Pau Loke Show**. (2022) "Chapter 10: Implementation of Microalgae 4.0 in Environmental Biotechnology" in *Microalgae for Environmental Biotechnology: Smart Manufacturing and Industry 4.0 Applications*. CRC Press.
383. Kreena Gada, Angela Paul Peter, Wai Siong Chai, **Pau Loke Show**. (2022) "Chapter 11: Industry Perspectives of Microalgae 4.0" in *Microalgae for Environmental Biotechnology: Smart Manufacturing and Industry 4.0 Applications*. CRC Press.

384. Henry Ng, Chung Hong Tan, Saifuddin Nomanbhay, **Pau Loke Show**. (2022) "Chapter 12: Sustainability and Development of Microalgae 4.0" in *Microalgae for Environmental Biotechnology: Smart Manufacturing and Industry 4.0 Applications*. CRC Press.
385. Sze Yin Cheng, Zhi Ting Ang, **Pau Loke Show**. (2022) "Chapter 13: Remaining Challenges and Uncertainties" in *Microalgae for Environmental Biotechnology: Smart Manufacturing and Industry 4.0 Applications*. CRC Press.

## 2021

386. Kuan Shiong Khoo, Yen Mun Chong, Wen Sing Chang, Jie Min Yap, Su Chern Foo, Ianatul Khoiroh, Phei Li Lau, Kit Wayne Chew, Chien Wei Ooi\*, **Pau Loke Show\***. (2021). "Permeabilization of *Chlorella sorokiniana* and extraction of lutein by distillable CO<sub>2</sub>-based alkyl carbamate ionic liquids" *Separation and Purification Technology*, 256, 117471. [Accepted 26 July 2020; IF: 5.774(2019)]
387. Phei Er Kee, Lie San Cheah, Pik Ki Wan, **Pau Loke Show**, John Chi-Wei Lan\*, Yin Hui Chow, Hui Suan Ng\*. (2021). "Primary capture of *Bacillus subtilis* xylanase from crude feedstock using alcohol/salt liquid biphasic flotation" *Biochemical Engineering Journal*, 165, 107835. [Accepted 20 October 2020; IF: 3.475(2019)]
388. Chiu-Yue Lin, Chyi-How Lay\*, Kit Wayne Chew, Saifuddin Nomanbhay, Rui-Lin Gu, Shen-Ho Chang, Gopalakrishnan Kumar, **Pau Loke Show\***. (2021). "Biogas production from beverage factory wastewater in a mobile bioenergy station" *Chemosphere*, 264, 128564. [Accepted 5 October 2020; IF: 5.778(2019)]
389. Wei-Hsin Chen\*, Bo-Jhih Lin, Yu-Ying Lin, Yen-Shih Chu, Aristotle T Ubando, **Pau Loke Show**, Hwai Chyuan Ong, Jo-Shu Chang, Shih-Hsin Ho, Alvin B Culaba, Anélie Pétrissans, Mathieu Pétrissans. (2021). "Progress in biomass torrefaction: Principles, applications and challenges" *Progress in Energy and Combustion Science*, 82, 100887. [Accepted 10 October 2020; IF: 28.938(2019)]
390. Shin Ying Foong, Yi Heng Chan, Wai Yan Cheah, Noor Haziqah Kamaludin, Tengku Nilam Baizura Tengku Ibrahim, Christian Sonne, Wanxi Peng, **Pau-Loke Show**, Su Shiung Lam\*. (2021). "Progress in waste valorization using advanced pyrolysis techniques for hydrogen and gaseous fuel production" *Bioresource Technology*, 320, 124299 [Accepted 15 October 2020; IF: 7.539(2019)]
391. K Rambabu, G Bharath, A Thanigaivelan, DB Das, **Pau Loke Show\***, Fawzi Banat. (2021). "Augmented biohydrogen production from rice mill wastewater through nano-metal oxides assisted dark fermentation" *Bioresource Technology*, 319, 124243. [Accepted 7 October 2020; IF: 7.539(2019)]
392. Do Thi Tuyen\*, Guo Yong Yew, Nguyen Tien Cuong, Le Thanh Hoang, Hoang Thi Yen, Phan Thi Hong Thao, Nguyen Thi Thao, Nguyen Sy le Thanh, Nguyen Thi Hien Trang, Nguyen Thi Trung, Ruqayya Afridi, Dao Thi Mai Anh, **Pau Loke Show\***. (2021) "Selection, purification, and evaluation of acarbose– an  $\alpha$ -glucosidase inhibitor from *Actinoplanes* sp." *Chemosphere*, 265, 129167. [Accepted 28 November 2020; IF: 6.306(2019)]
393. Wai Siong Chai, Wee Gee Tan, Heli Siti Halimatul Munawaroh, Vijai Kumar Gupta, Shih-Hsin Ho, **Pau Loke Show\***. (2021) "Multifaceted roles of microalgae in the application of wastewater biotreatment: A review" *Environmental Pollution*, 269, 116236. [Accepted 4 December 2020, IF: 6.792(2019)]
394. Yang Tao, Dandan Li, Wai Siong Chai, **Pau Loke Show**, Xuhai Yang, Sivakumar Manickam,

- Guangjie Xie, Yongbin Han\*. (2021) "Comparison between airborne ultrasound and contact ultrasound to intensify air drying of blackberry: Heat and mass transfer simulation, energy consumption and quality evaluation" *Ultrasonics Sonochemistry*, 72, 105410. [Accepted 12 November 2020; IF: 6.513(2019)]
395. D Vallejo-Domínguez, E Rubio-Rosas, E Aguila-Almanza, H Hernández-Cocoletzi\*, ME Ramos-Cassellis, ML Luna-Guevara, K Rambabu, Sivakumar Manickam, Heli Siti Halimatul Munawaroh, **Pau Loke Show**\*. (2021) "Ultrasound in the deproteinization process for chitin and chitosan production" *Ultrasonics Sonochemistry*, 72, 105417. [Accepted 28 November 2020; IF: 6.513(2019)]
396. Kuan Shiong Khoo, Chien Wei Ooi, Kit Wayne Chew, Su Chern Foo, **Pau Loke Show**\*. (2021) "Bioprocessing of *Chaetoceros calcitrans* for the recovery of fucoxanthin using CO<sub>2</sub>-based alkyl carbamate ionic liquids" *Bioresource Technology*, 322, 124520. [Accepted 4 December 2020; IF: 7.539(2019)]
397. Sami Ullah\*, Abdullah G Al-Sehemi, Muhammad Mubashir, Ahmad Mukhtar, Sidra Saqib, Mohamad Azmi Bustam, Chin Kui Cheng, Muhammad Ibrahim, **Pau Loke Show**\*. (2021) "Adsorption Behavior of Mercury over Hydrated Lime: Experimental Investigation and Adsorption Process Characteristic Study" *Chemosphere*, 271, 129504. [Accepted 28 December 2020; IF: 5.778(2019)]
398. Thanigaivelan Arumugham\*, K Rambabu, Shadi W Hasan, **Pau Loke Show**\*, Jörg Rinklebe, Fawzi Banat\*. (2021) "Supercritical carbon dioxide extraction of plant phytochemicals for biological and environmental applications–A review" *Chemosphere*, 271, 129525. [Accepted 29 December 2020; IF: 5.778(2019)]
399. Parashuram Kallem\*, Yazan Ibrahim, Shadi W Hasan, **Pau Loke Show**, Fawzi Banat\*. (2021) "Fabrication of novel polyethersulfone (PES) hybrid ultrafiltration membranes with superior permeability and antifouling properties using environmentally friendly sulfonated functionalized polydopamine nanofillers" *Separation and Purification Technology*, 261, 118311. [Accepted 3 January 2021; IF: 5.774(2019)]
400. Muhammad Babar\*, Ahmad Mukhtar, Muhammad Mubashir, Sidra Saqib, Sami Ullah, Abul Hassan Ali Qudusi, Mohamad Azmi Bustam, **Pau Loke Show**\*. (2021) "Development of a novel switched packed bed process for cryogenic CO<sub>2</sub> capture from natural gas" *Process Safety and Environmental Protection*, 147, 878-887. [Accepted 3 January 2021; IF: 4.966 (2019)]
401. Kuan Shiong Khoo, Chien Wei Ooi\*, Kit Wayne Chew, Su Chern Foo, Jun Wei Lim, Yang Tao, Ning Jiang, Shih-Hsin Ho\*, **Pau Loke Show**\*. (2021) "Permeabilization of *Haematococcus pluvialis* and solid-liquid extraction of astaxanthin by CO<sub>2</sub>-based alkyl carbamate ionic liquids" *Chemical Engineering Journal*, 128510. [Accepted 9 January 2021; IF: 10.652(2019)]
402. Jasmine JillJia Yi Yong, Kit Wayne Chew, Kuan Shiong Khoo, **Pau Loke Show**\*, Jo-Shu Chang\*. (2021) "Prospects and development of algal-bacterial biotechnology in environmental management and protection" *Biotechnology Advances*, 47, 107684. [Accepted 22 December 2020; IF: 10.744(2019)]
403. **Pau Loke Show**. (2021) "Special Issue on "Biotechnology for Sustainability and Social Well Being" *Processes*, 9(2), 216. [Accepted: 22 January 2021; IF: 2.753 (2019)]
404. Sadia Arif, Hira Saqib, Muhammad Mubashir, Shaukat Iqbal Malik\*, Ahmad Mukhtar, Sidra Saqib, Sami Ullah, **Pau Loke Show**\*. (2021) "Comparison of *Nigella Sativa* and *Trachyspermum Ammi* via Experimental Investigation and Biotechnological Potential" *Chemical Engineering and Processing-Process Intensification*, 108313. [Accepted 19 January 2021; IF: 3.731(2019)]
405. Yoong Kit Leong, Kit Wayne Chew, Wei-Hsin Chen, Jo-Shu Chang\*, **Pau Loke Show**\*. (2021)

- "Reuniting the Biogeochemistry of Algae for a Low-Carbon Circular Bioeconomy" Trends in Plant Science. [Accepted 19 December 2020, IF: 14.416(2019)]
406. **Pau Loke Show**, Suchithra Thangalazhy-Gopakumar, Dominic CY Foo. (2021) "Sustainable technologies for waste reduction and pollutants removals" Clean Technologies and Environmental Policy, 23, 1-2. [Published: 14 January 2021; IF: 2.429(2019)]
407. Yue Wu, Sujin Li, Yang Tao\*, Dandan Li, Yongbin Han\*, **Pau Loke Show**, Guangzhong Wen, Jianzhong Zhou. (2021) "Fermentation of blueberry and blackberry juices using Lactobacillus plantarum, Streptococcus thermophilus and Bifidobacterium bifidum: Growth of probiotics, metabolism of phenolics, antioxidant capacity in vitro and sensory evaluation" Food Chemistry, 348, 129083. [Accepted 7 January 2021; IF: 6.306(2019)]
408. Vishno Vardhan Devadas, Kuan Shiong Khoo, Wen Yi Chia, Kit Wayne Chew, Heli Siti Halimatul Munawaroh, Man-Kee Lam, Jun-Wei Lim, Yeek-Chia Ho, Keat Teong Lee, **Pau Loke Show\***. (2021) "Algae biopolymer towards a sustainable circular economy" Bioresource Technology, 124702. [Accepted 7 January 2021; IF: 7.539(2019)]
409. Selvakumar Dharmaraj, Veeramuthu Ashokkumar\*, Sneha Hariharan, Akila Manibharathi, **Pau Loke Show**, Chong Cheng Tung, Chawalit Ngamcharussrivichai\*. (2021) "The COVID-19 pandemic face mask waste: A blooming threat to the marine environment" Chemosphere, 272, 129601. [Accepted 6 January 2021; IF: 5.778(2019)]
410. M. N. Uddin\*, Sk. Yasir Arafat Siddiki, M. Mofijur, F. Djavanroodi, M. A. Hazrat, **Pau Loke Show**, S. F. Ahmed, Yu-Ming Chu\*. (2021) "Prospects of bioenergy production from organic waste using anaerobic digestion technology: A mini-review" Frontiers in Energy Research, 9, 627093. [Accepted: 20 January 2021; IF: 2.746(2019)]
411. Jing Yi Chia, Kuan Shiong Khoo, Tau Chuan Ling\*, Larry Croft, Sivakumar Manickam, Yee Jiun Yap\*, **Pau Loke Show\***. (2021) "Description and Detection of Excludons as Transcriptional Regulators in Gram-positive, Gram-negative and Archaeal Strains of Prokaryotes" Biocatalysis and Agricultural Biotechnology, 32, 101933. [Accepted 25 January 2021]
412. Chung Yiin Wong, Kunlanan Kiatkittipong\*, Worapon Kiatkittipong, Jun Wei Lim\*, Man Kee Lam, Ta Yeong Wu, **Pau Loke Show**, Hanita Daud, Pei Sean Goh, Mina Sakuragi. (2021) "Rhizopus oligosporus-Assisted Valorization of Coconut Endosperm Waste by Black Soldier Fly Larvae for Simultaneous Protein and Lipid to Biodiesel Production" Processes, 9(2), 299. [Accepted: 21 January 2021; IF: 2.753(2019)]
413. Hongmei Wang, Yang Tao\*, Yiting Li, Shasha Wu, Dandan Li, Xuwei Liu, Yongbin Han\*, Sivakumar Manickam, **Pau Loke Show**. (2021) "Application of ultrasonication at different microbial growth stages during apple juice fermentation by Lactobacillus plantarum: Investigation on the metabolic response" Ultrasonics Sonochemistry, 73, 105486. [Accepted 28 January 2021; IF: 6.513(2019)]
414. Muhammad Ishaq Khan, Muhammad Mubashir, Dzulkarnain B Zaini, Mater H Mahnashi, Bandar A Alyami, Ali O Alqarni, **Pau Loke Show\***. (2021) "Cumulative impact assessment of hazardous ionic liquids towards aquatic species using risk assessment methods" Journal of Hazardous Materials, 125364. [Accepted 5 February 2021; IF: 9.038(2019)]
415. M Mofijur, SF Ahmed\*, SM Ashrafur Rahman, SK Yasir Arafat Siddiki, ABM Saiful Islam, M Shahabuddin, Hwai Chyuan Ong, TM Indra Mahlia, F Djavanroodi, **Pau Loke Show\***. (2021) "Source, distribution and emerging threat of micro-and nanoplastics to marine organism and human health: Socio-economic impact and management strategies" Environmental Research, 195, 110857. [Accepted 4 February 2021; IF: 5.715(2019)]
416. Wan NA Kadir, Man K Lam\*, Yoshimitsu Uemura, Jun W Lim, Peck L Kiew, Steven Lim, Siti S

- Rosli, Chung Y Wong, **Pau L Show**, Keat T Lee. (2021) "Simultaneous harvesting and cell disruption of microalgae using ozone bubbles: optimization and characterization study for biodiesel production" *Frontiers of Chemical Science and Engineering*. [Accepted 16 September 2020; IF: 3.552(2019)]
417. G Bharath\*, K Rambabu, Abdul Hai, Israa Othman, N Ponpandian, Fawzi Banat\*, **Pau Loke Show\***. (2021) "Hybrid Pd50-Ru50/MXene (Ti3C2Tx) nanocatalyst for effective hydrogenation of CO2 to methanol toward climate change control" *Chemical Engineering Journal*, 414, 128869. [Accepted 3 February 2021; IF: 10.652(2019)]
418. Nguyen Duc Huy, Nguyen Thi My Le, Kit Wayne Chew, Nguyen Hoang Loc, Seung-Moon Park\*, **Pau Loke Show\***. (2021) "Characterization of a recombinant laccase from *Fusarium oxysporum* HUIB02 for biochemical application on dyes removal" *Biochemical Engineering Journal*, 168, 107958. [Accepted 6 February 2021; IF: 3.475(2019)]
419. Mamoona Munir, Mushtaq Ahmad, Muhammad Mubashir, Saira Asif, Amir Waseem, Ahmad Mukhtar, Sidra Saqib, Heli Siti Halimatul Munawaroh, Man Kee Lam, Kuan Shiong Khoo, Awais Bokhari, **Pau Loke Show\***. (2021) "A practical approach for the synthesis of biodiesel via non-edible seeds oils using trimetallic based montmorillonite nano-catalyst" *Bioresource Technology*, 328, 124859. [Accepted 10 February 2021; IF: 7.539(2019)]
420. MA Hazrat\*, MG Rasul, MMK Khan, M Mofijur, SF Ahmed, Hwai Chyuan Ong, Dai-Viet N Vo, **Pau Loke Show\***. (2021) "Techniques to improve the stability of biodiesel: a review" *Environmental Chemistry Letters*. [Accepted 17 December 2020; IF: 5.922(2019)]
421. E Águila-Almanza, Sze Shin Low, H Hernández-Cocoletzi\*, A Atonal-Sandoval, E Rubio-Rosas, J Violante-González, **Pau Loke Show\***. (2021) "Facile and green approach in managing sand crab carapace biowaste for obtention of high deacetylation percentage chitosan" *Journal of Environmental Chemical Engineering*, 9(3), 105229. [Accepted 15 February 2021; IF: 4.300(2019)]
422. Dehui Qu, **Pau-Loke Show**, Xiaoling Miao\*. (2021) "Transcription Factor ChbZIP1 from Alkaliphilic Microalgae *Chlorella* sp. BLD Enhancing Alkaline Tolerance in Transgenic *Arabidopsis thaliana*" *International Journal of Molecular Sciences*, 22(5), 2387. [Accepted: 24 February 2021; IF: 4.556(2019)]
423. Kuan Shiong Khoo, Wen Yi Chia, Kit Wayne Chew, **Pau Loke Show\***. (2021) "Microalgal-Bacterial Consortia as Future Prospect in Wastewater Bioremediation, Environmental Management and Bioenergy Production" *Indian Journal of Microbiology*. [Accepted: 7 February 2021 ; IF: 1.830(2019)]
424. Guo-Yong Yew, Zhen-Shen Liew, Soon-Onn Lai, Thiam-Leng Chew, Hee-Min Teh, Siti Habibah Shafiai, Man-Kee Lam, Jun-Wei Lim, **Pau-Loke Show**, Yeek-Chia Ho\*. (2021) "Recent Advancement of Sustainable and Renewable Energy in Osmotic Power Generation" *Engineering Journal*, 25(2), 193-206. [Accepted 25 November 2020]
425. Wai Siong Chai, Jie Ying Cheun, P Senthil Kumar, Muhammad Mubashir, Zahid Majeed, Fawzi Banat, Shih-Hsin Ho\*, **Pau Loke Show\***. (2021) "A review on conventional and novel materials towards heavy metal adsorption in wastewater treatment application" *Journal of Cleaner Production*, 126589. [Accepted 28 February 2021; IF: 7.246(2019)]
426. Pham Thi Lanh, Huong Minh Nguyen, Bui Thi Thuy Duong, Nguyen Thi Hoa, Luu Thi Tam, Ha Thi Thu, Vo Van Nha, Dang Diem Hong, Aidyn Mouradov, Apurav Krishna Koyande, **Pau-Loke Show\***, Dong Van Quyen\*. (2021) "Generation of microalga *Chlamydomonas reinhardtii* expressing protein as an oral vaccine candidate for shrimps against White Spot Syndrome Virus (WSSV) infection" *Aquaculture*, 736737. [Accepted 4 April 2021; IF: 3.225 (2019)]

427. Khuram Maqsood, Abulhassan Ali, Rizwan Nasir, Aymn Abdul Rehman, Abdullah S Bin Mahfouz, Anas Ahmad, Azmi BM Shariff, Saibal Ganguly, Muhammad Mubashir, **Pau Loke Show**\*. (2021) "Experimental and simulation study on high-pressure VLS cryogenic hybrid network for CO<sub>2</sub> capture from highly sour natural gas" *Process Safety and Environmental Protection*. [Accepted 29 March 2021; IF: 4.966(2019)]
428. Sumreen Dawood, Apurav Krishna Koyande, Mushtaq Ahmad, Muhammad Mubashir, Saira Asif, Jiří Jaromír Klemeš, Awais Bokhari, Sidra Saqib, Moonyong Lee, **Muhammad Abdul Qyyum**\*, **Pau Loke Show**\*. (2021) "Synthesis of biodiesel from non-edible (*Brachychiton populneus*) oil in the presence of nickel oxide nanocatalyst: parametric and optimisation studies" *Chemosphere*, 278, 130469. [Accepted 31 March 2021; IF: 5.778(2019)]
429. Apurav Krishna Koyande, Kit Wayne Chew, **Pau-Loke Show**, Heli Siti Halimatul Munawaroh, **Jo-Shu Chang**\*. (2021) "Liquid triphasic systems as sustainable downstream processing of *Chlorella* sp. biorefinery for potential biofuels and feed production" *Bioresource Technology*, 125075. [Accepted 25 March 2021; IF: 7.539(2019)]
430. Thanh Tien Nguyen, **Man Kee Lam**\*, Yoke Wang Cheng, Yoshimitsu Uemura, Nurlidia Mansor, Jun Wei Lim, **Pau Loke Show**, Inn Shi Tan, Steven Lim. (2021) "Reaction kinetics and thermodynamics studies for in-situ transesterification of wet microalgae paste to biodiesel" *Chemical Engineering Research and Design*, 169, 250-264. [Accepted 22 March 2021; IF: 3.350(2019)]
431. Chung Hong Tan, Saifuddin Nomanbhay, **Pau Loke Show**\*. (2021) "Recent Progress in Harvest and Recovery Techniques of Mammalian and Algae Cells for Industries" *Indian Journal of Microbiology*. [Accepted 8 March 2021; IF: 1.830(2019)]
432. **Chien Lye Chew**\*, Liang Ee Low, Wen Yi Chia, Kit Wayne Chew, Zhen Kang Liew, Eng-Seng Chan, Yi Jing Chan, Pei San Kong, **Pau Loke Show**. (2021) "Prospects of Palm Fruit Extraction Technology: Palm Oil Recovery Processes and Quality Enhancement" *Food Reviews International*. [Published online: 22 Mar 2021; IF: 4.113(2019)]
433. Gowthama Prabu Udayakumar, Subbulakshmi Muthusamy, Bharathi Selvaganesh, **N Sivarajasekar**\*, Krishnamoorthy Rambabu, Fawzi Banat, Selvaraju Sivamani, Nallusamy Sivakumar, Ahmad Hosseini-Bandegharai, **Pau Loke Show**\*. (2021) "Biopolymers and composites: Properties, characterization and their applications in food, medical and pharmaceutical industries" *Journal of Environmental Chemical Engineering*, 9(4), 105322. [Accepted 5 March 2021; IF: 4.300(2019)]
434. Chee Wun How, Yong Sze Ong, Sze Shin Low, Ashok Pandey, **Pau Loke Show**\*, **Jhi Biau Foo**\*. (2021) "How Far Have We Explored Fungi to Fight Cancer?" *Seminars in cancer biology*. [Accepted 13 March 2021; IF: 11.090(2019)]
435. Muhammad Mubashir, Ludovic F Dumée, Yeong Yin Fong, Norwahyu Jusoh, Jacqueline Lukose, Wai Siong Chai, **Pau Loke Show**\*. (2021) "Cellulose acetate-based membranes by interfacial engineering and integration of ZIF-62 glass nanoparticles for CO<sub>2</sub> separation" *Journal of hazardous materials*, 415, 125639. [Accepted 9 March 2021; IF: 9.038(2019)]
436. Muhammad Babar, Muhammad Mubashir, Ahmad Mukhtar, Sidra Saqib, Sami Ullah, Mohamad Azmi Bustam, **Pau Loke Show**\*. (2021) "Sustainable Functionalized Metal-Organic Framework NH<sub>2</sub>-MIL-101 (Al) for CO<sub>2</sub> Separation under Cryogenic Conditions" *Environmental Pollution*, 279, 116924. [Accepted 5 March 2021; IF: 6.792(2019)]
437. Surendar Moogi, Jechan Lee, Jungho Jae, Christian Sonne, Jörg Rinklebe, Do Heui Kim, Su Shiung Lam, **Pau Loke Show**, **Young-Kwon Park**\*. (2021) "Valorization of rice husk to aromatics via thermocatalytic conversion in the presence of decomposed methane" *Chemical Engineering*

- Journal, 417, 129264. [Accepted 2 March 2021; IF: 10.652(2019)]
438. Wei Zun Te, Kavinesh Nair Manor Muhanin, Yu-Ming Chu\*, Anurita Selvarajoo\*, Ajit Singh, Shams Forruque Ahmed, Dai-Viet N. Vo and **Pau Loke Show\***. (2021) "Optimization of Pyrolysis Parameters for Production of Biochar From Banana Peels: Evaluation of Biochar Application on the Growth of Ipomoea Aquatica" *Frontiers in Energy Research*, 8, 637846. [Accepted: 23 December 2020; IF: 2.746(2019)]
439. Hui Yi Leong, Chih-Kai Chang, Kuan Shiong Khoo, Kit Wayne Chew, Shir Reen Chia, Jun Wei Lim, Jo-Shu Chang, **Pau Loke Show\***. (2021) "Waste biorefinery towards a sustainable circular bioeconomy: a solution to global issues" *Biotechnology for Biofuels*, 14, 87. [Accepted: 27 March 2021; IF: 4.815(2019)]
440. Wei-Hsin Chen\*, Chun Fong Eng, Yu-Ying Lin, Quang-Vu Bach, Veeramuthu Ashokkumar, **Pau-Loke Show**. (2021) "Two-step thermodegradation kinetics of cellulose, hemicelluloses, and lignin under isothermal torrefaction analyzed by particle swarm optimization" *Energy Conversion and Management*, 238, 114116. [Accepted 29 March 2021; IF: 8.208(2019)]
441. Afifa Aslam, Muhammad Ibrahim\*, Abid Mahmood, Muhammad Mubashir, Hassaan Fayyaz Khan Sipra, Imran Shahid, Shahla Ramzan, Mohd Talib Latif, Muhammad Yahya Tahir, **Pau Loke Show\***. (2021) "Mitigation of particulate matters and integrated approach for carbon monoxide remediation in an urban environment" *Journal of Environmental Chemical Engineering*, 105546. [Accepted 17 April 2021; IF: 4.300(2019)]
442. SF Ahmed, M Mofijur, Samiha Nuzhat, Anika Tasnim Chowdhury, Nazifa Rafa, Md Alhaz Uddin, Abrar Inayat, TMI Mahlia, Hwai Chyuan Ong, Wen Yi Chia, **Pau Loke Show\***. (2021) "Recent developments in physical, biological, chemical, and hybrid treatment techniques for removing emerging contaminants from wastewater" *Journal of Hazardous Materials*, 125912. [Accepted 14 April 2021; IF: 9.038(2019)]
443. Alif Aiman, Mei Yin Ong, Saifuddin Nomanbhay\*, **Pau Loke Show**. (2021) "Microwave plasma technology for sustainable energy production and the electromagnetic interaction within the plasma system: A review" *Environmental Research*, 197, 111204. [Accepted 15 April 2021; IF: 5.715(2019)]
444. Manish Kumar, Shanta Dutta, Siming You, Gang Luo, Shicheng Zhang, **Pau Loke Show**, Ankush D Sawarkar, Lal Singh, Daniel CW Tsang\*. (2021) "A critical review on biochar for enhancing biogas production from anaerobic digestion of food waste and sludge" *Journal of Cleaner Production*, 305, 127143. [Accepted 13 April 2021; IF: 7.246(2019)]
445. Angela Paul Peter, Kuan Shiong Khoo, Kit Wayne Chew, Tau Chuan Ling, Shih-Hsin Ho\*, Jo-Shu Chang, **Pau Loke Show\***. (2021) "Microalgae for biofuels, wastewater treatment and environmental monitoring" *Environmental Chemistry Letters*. [Accepted 08 March 2021; IF: 5.922(2019)]
446. Pei-Xuan Lee, Bing-Lan Liu, **Pau Loke Show**, Chien Wei Ooi, Wai Siong Chai, Heli Siti Halimatul Munawaroh, Yu-Kaung Chang\*. (2021) "Removal of calcium ions from aqueous solution by bovine serum albumin (BSA)-modified nanofiber membrane: Dynamic adsorption performance and breakthrough analysis" *Biochemical Engineering Journal*, 171, 108016. [Accepted 4 April 2021; IF: 3.475(2019)]
447. Hong Li Tan, Man Kee Lam\*, Yoke Wang Cheng, Jun Wei Lim, Inn Shi Tan, Chee Yew Henry Foo, **Pau Loke Show**. (2021) "Heterotrophic and Mixotrophic Cultivation of *Chlorella vulgaris* using Chicken Waste Compost as Nutrients Source for Lipid Production" *IOP Conference Series: Earth and Environmental Science*, 721, 012011.
448. Kexin Wang, Kuan Shiong Khoo, Kit Wayne Chew\*, Anurita Selvarajoo, Wei-Hsin Chen, Jo-

- Shu Chang, **Pau Loke Show\***. (2021) "Microalgae: the future supply house of biohydrogen and biogas" *Frontiers in Energy Research*, 9, 660399. [Accepted: 29 March 2021; IF: 2.746(2019)]
449. Wen Yi Chia, Hanz Kok, Kit Wayne Chew\*, Sze Shin Low, **Pau Loke Show\***. (2021) "Can algae contribute to the war with Covid-19?" *Bioengineered*, 12(1), 1226-1237. [Accepted 25 Mar 2021; IF: 2.205(2019)]
450. Shih-Wei Yen, Wei-Hsin Chen\*, Jo-Shu Chang\*, Chun-Fong Eng, Salman Raza Naqvi, **Pau Loke Show**. (2021) "Torrefaction Thermogravimetric Analysis and Kinetics of Sorghum Distilled Residue for Sustainable Fuel Production" *Sustainability*, 13(8), 4246. [Accepted: 7 April 2021; IF: 2.576(2019)]
451. Sze Shin Low, Kien Xiang Bong, Muhammad Mubashir, Chin Kui Cheng, Man Kee Lam, Jun Wei Lim, Yeek Chia Ho, Keat Teong Lee, Heli Siti Halimatul Munawaroh, **Pau Loke Show\***. (2021) "Microalgae Cultivation in Palm Oil Mill Effluent (POME) Treatment and Biofuel Production" *Sustainability*, 13(6), 3247. [Accepted: 12 March 2021; IF: 2.576(2019)]
452. Luqman Jeffry, Mei Yin Ong, Saifuddin Nomanbhay\*, M Mofijur, Muhammad Mubashir, **Pau Loke Show\***. (2021) "Greenhouse gases utilization: A review" *Fuel*, 301, 121017. [Accepted 7 May 2021; IF: 5.578(2019)]
453. Cung Thi Ngoc Mai, Nguyen Viet Linh, Nguyen Quang Lich, Hoang Phuong Ha, Dong Van Quyen, Doris Ying Ying Tang, **Pau Loke Show\***. (2021) "Advanced materials for immobilization of purple phototrophic bacteria in bioremediation of oil-polluted wastewater" *Chemosphere*, 278, 130464. [Accepted 31 March 2021; IF: 5.778(2019)]
454. Abdul Azim bin Azmi, Kit Wayne Chew, Wen Yi Chia, Muhammad Mubashir, Revathy Sankaran, Man Kee Lam, Jun Wei Lim, Yeek-Chia Ho, **Pau Loke Show\***. (2021) "Green bioprocessing of protein from *Chlorella vulgaris* microalgae towards a circular economy" *Bioresource Technology*, 333, 125197. [Accepted 15 April 2021; IF: 7.539(2019)]
455. Yan Jer Ng, Pei En Tham, Kuan Shiong Khoo, Chin Kui Cheng, Kit Wayne Chew\*, **Pau Loke Show\***. (2021) "A comprehensive review on the techniques for coconut oil extraction and its application" *Bioprocess and Biosystems Engineering*. [Accepted 21 April 2021; IF: 2.419(2019)]
456. Mintallah Mousa A Allouzi, Doris Ying Ying Tang, Kit Wayne Chew, Jörg Rinklebe, Nanthi Bolan, Safa Mousa A Allouzi, **Pau Loke Show\***. (2021) "Micro (Nano) Plastic Pollution: The Ecological Influence on Soil-Plant System and Human Health" *Science of The Total Environment*, 788, 147815. [Accepted 13 May 2021; IF: 6.551(2019)]
457. Yap Jiunn Kwok, Revathy Sankaran, Chew Kit Wayne, Heli Siti Halimatul Munawaroh, Shih-Hsin Ho\*, J Rajesh Banu, **Pau Loke Show\***. (2021) "Advancement of green technologies: A comprehensive review on the potential application of microalgae biomass" *Chemosphere*, 281, 130886. [Accepted 10 May 2021; IF: 5.778(2019)]
458. Xue-Fei Tan, Shi-Shu Zhu, Ru-Peng Wang, Yi-Di Chen, **Pau-Loke Show**, Feng-Fa Zhang, Shih-Hsin Ho\*. (2021) "Role of biochar surface characteristics in the adsorption of aromatic compounds: pore structure and functional groups" *Chinese Chemical Letters*. [Accepted 30 April 2021; IF: 4.632(2019)]
459. Jia Xin Yap, CP Leo, Nazlina Haiza Mohd Yasin, **Pau Loke Show**, CJC Derek\*. (2021) "Stability evaluation and formula optimization of cellulose-based scaffold for the air-liquid interface cultivation of *Navicula incerta*" *Environmental Research*, 199, 111298. [Accepted 1 May 2021; IF: 5.715(2019)]
460. Jie Yang, Jing Lu, Qingzheng Zhu, Yang Tao, Qiang Zhu, Changming Guo, Yaowei Fang, Li Chen, Apurav Krishna Koyande, Shujun Wang, **Pau-Loke Show\***. (2021) "Isolation and characterization of a novel *Lactobacillus plantarum* MMB-07 from traditional Suanyu for

- Acanthogobius hasta fermentation" Journal of Bioscience and Bioengineering. [Accepted 28 December 2020; IF: 2.366(2019)]
461. Asif Jamil, Oh Pei Ching, Tanveer Iqbal, Sikander Rafiq, Muhammad Zia-ul-Haq, Muhammad Zubair Shahid, Muhammad Mubashir, Sivakumar Manickam, **Pau Loke Show\***. (2021) "Development of an extended model for the mitigation of environmentally hazardous CO<sub>2</sub> gas over asymmetric hollow fibre composite membranes" Journal of Hazardous Materials, 417, 126000. [Accepted 29 April 2021; IF: 9.038(2019)]
  462. Kah Rong Chew, Hui Yi Leong, Kuan Shiong Khoo, Dai-Viet N Vo, Hirra Anjum, Chih-Kai Chang\*, **Pau Loke Show\***. (2021) "Effects of anaerobic digestion of food waste on biogas production and environmental impacts: a review" Environmental Chemistry Letters. [Accepted 8 March 2021; IF: 5.922(2019)]
  463. Yaleni Kanna Dasan, Man Kee Lam\*, Suzana Yusup, Jun Wei Lim, Keat Teong Lee, **Pau Loke Show**, Inn Shi Tan, Henry Chee Yew Foo. (2021) "Cultivation of Chlorella vulgaris in Sequential Flow Photobioreactor System: Influence of Recycled Culture Medium on Growth, Lipid and Protein Content" IOP Conference Series: Earth and Environmental Science, 721, 12013.
  464. Govindan Bharath\*, Krishnamoorthy Rambabu, Abdul Hai, Pranay P Morajkar, Akshay V Salkar, Shadi W Hasan, **Pau Loke Show**, Fawzi Banat\*. (2021) "Highly selective etherification of fructose and 5-hydroxymethylfurfural over a novel Pd-Ru/MXene catalyst for sustainable liquid fuel production" International Journal of Energy Research, 1-12. [Accepted: 28 March 2021; IF: 3.741(2019)]
  465. Soheil Valizadeh, Chang Hyun Ko, Jechan Lee, See Hoon Lee, Yeon Jeong Yu, **Pau Loke Show**, Gwang Hoon Rhee, Young-Kwon Park\*. (2021) "Effect of eggshell- and homo-type Ni/Al<sub>2</sub>O<sub>3</sub> catalysts on the pyrolysis of food waste under CO<sub>2</sub> atmosphere" Journal of Environmental Management, 294, 112959. [Accepted 29 May 2021; IF: 5.647(2019)]
  466. Jun Wei Roy Chong, Guo Yong Yew, Kuan Shiong Khoo, Shih-Hsin Ho\*, **Pau Loke Show\***. (2021) "Recent advances on food waste pretreatment technology via microalgae for source of polyhydroxyalkanoates" Journal of Environmental Management, 293, 112782. [Accepted 12 May 2021; IF: 5.647(2019)]
  467. Ehsan Daneshvar\*, Rebecca J Wicker\*, **Pau-Loke Show**, Amit Bhatnagar\*. (2021) "Biologically-mediated carbon capture and utilization by microalgae towards sustainable CO<sub>2</sub> biofixation and biomass valorization – A review" Chemical Engineering Journal, 130884. [Accepted 12 June 2021; IF: 10.652(2019)]
  468. Xiaokang Niu, Anqi Liu, Chunchi Liu, Chong Zhang\*, Sze Shin Low, **Pau Loke Show\***. (2021) "Small Laccase from Streptomyces coelicolor catalyzed chitosan-pectin blending film for hazardous gas removal" Environmental Technology & Innovation, 23, 101690. [Accepted 11 June 2021; IF: 3.356(2019)]
  469. Abdul Hai, G Bharath, Muhammad Daud, K Rambabu, Imtiaz Ali, Shadi W Hasan, **Pau Loke Show**, Fawzi Banat\*. (2021) "Valorization of groundnut shell via pyrolysis: Product distribution, thermodynamic analysis, kinetic estimation, and artificial neural network modelling" Chemosphere, 283, 131162. [Accepted 8 June 2021; IF: 5.778(2019)]
  470. Rei-Yu Chein\*, Wei-Hsin Chen\*, Hwai Chyuan Ong, **Pau Loke Show**, Yashvir Singh. (2021) "Analysis of methanol synthesis using CO<sub>2</sub> hydrogenation and syngas produced from biogas-based reforming processes" Chemical Engineering Journal, 426, 130835. [Available online 15 June 2021; IF: 10.652(2019)]
  471. Jane-Yii Wu, Chyi-How Lay\*, Shir Reen Chia, Kit Wayne Chew, **Pau Loke Show\***, Ping-Heng Hsieh, Chin-Chao Chen. (2021) "Economic potential of bioremediation using immobilized

- microalgae-based microbial fuel cells" *Clean Technologies and Environmental Policy*, 1-14. [Accepted 04 June 2021; IF: 2.429(2019)]
472. Syed Ejaz Hussain Mehdi, Rabia Amen, Awais Ali, Hirra Anjum, Abid Mahmood, Muhammad Mubashir\*, Ahmad Mukhtar, Sami Ullah, Abdullah G Al-Sehemi, Muhammad Ibrahim, Mohd Shariq Khan, Muhammad Abdul Qyyum\*, **Pau Loke Show\***. (2021) "Sources, chemistry, bioremediation and social aspects of arsenic-contaminated waters: a review" *Environmental Chemistry Letters*, 1-28. [Accepted 11 May 2021; IF: 5.922(2019)]
473. Hooi Ren Lim, Kuan Shiong Khoo, Kit Wayne Chew, Chih-Kai Chang, Heli Siti Halimatul Munawaroh, P Senthil Kumar, Nguyen Duc Huy, **Pau Loke Show\***. (2021) "Perspective of Spirulina culture with wastewater into a sustainable circular bioeconomy" *Environmental Pollution*, 284, 117492. [Accepted 27 May 2021; IF: 6.792(2019)]
474. Sarrthesvaarni Rajasuriyan\*, Hayyiratul Fatimah Mohd Zaid\*, Mohd Faridzuan Majid, Raihan Mahirah Ramli, Khairulazhar Jumbri, Jun Wei Lim, Mardawani Mohamad, **Pau Loke Show**, Brian Yuliarto. (2021) "Oxidative Extractive Desulfurization System for Fuel Oil Using Acidic Eutectic-Based Ionic Liquid" *Processes*, 9(6), 1050. [Accepted: 14 May 2021; IF: 2.753(2019)]
475. Kian Leong Tan, Wui Chuen Chia, Chee Wun How, Yin Sim Tor, **Pau Loke Show**, Qi Hao Daniel Looi\*, Jhi Biau Foo\*. (2021) "Benchtop Isolation and Characterisation of Small Extracellular Vesicles from Human Mesenchymal Stem Cells" *Molecular Biotechnology*, 1-12. [Accepted 13 May 2021; IF: 2.022(2019)]
476. Guixing Xiao, Jianqiu Chen, **Pau Loke Show**, Qiulian Yang, Jian Ke, Qi Zhao, Ruixin Guo\*, Yanhua Liu\*. (2021) "Evaluating the application of antibiotic treatment using algae-algae/activated sludge system" *Chemosphere*, 282, 130966. [Accepted 17 May 2021; IF: 5.778(2019)]
477. Wai Siong Chai\*, Chee Hong Chew, Heli Siti Halimatul Munawaroh, Veeramuthu Ashokkumar, Chin Kui Cheng, Young-Kwon Park, **Pau Loke Show\***. (2021) "Microalgae and ammonia: A review on inter-relationship" *Fuel*, 303, 121303. [Accepted 17 June 2021; IF: 6.609(2020)]
478. Ahmad Mukhtar, Sidra Saqib, Muhammad Mubashir, Sami Ullah, Abrar Inayat, Abid Mahmood, Muhammad Ibrahim, **Pau Loke Show\***. (2021) "Mitigation of CO<sub>2</sub> emissions by transforming to biofuels: Optimization of biofuels production processes" *Renewable & Sustainable Energy Reviews*, 150, 111487. [Accepted 7 July 2021; IF: 14.982(2020)]
479. Zhen Kang Liew, Yi Jing Chan\*, Zheng Theng Ho, Yew Hong Yip, Ming Chern Teng, Siewhui Chong, **Pau Loke Show**, Chien Lye Chew. (2021) "Biogas production enhancement by co-digestion of empty fruit bunch (EFB) with palm oil mill effluent (POME): Performance and kinetic evaluation" *Renewable Energy*. [Accepted 16 July 2021, IF: 8.001(2020)]
480. Hafeez Ullah, Khurram Shehzad Qureshi, Usama Khan, Maryam Zaffar, Yap Jen Yang, Nurul Ekmi Rabat, Muhammad Irfan Khan, Sidra Saqib, Ahmad Mukhtar, Sami Ullah, Muhammad Mubashir\*, Awais Bukhari, Wai Siong Chai, Kit Wayne Chew, **Pau Loke Show\***. (2021) "Self-healing epoxy coating synthesis by embedment of metal 2-methyl imidazole and acetylacetonate complexes with microcapsules" *Chemosphere*, 285, 131492. [Accepted 6 July 2021, IF: 7.086(2020)]
481. Nguyen-Sy Toan\*, Xuefei Tan\*, Nguyen Thi Dong Phuong, Nurul Syahirah Mat Aron, Kit Wayne Chew, Kuan Shiong Khoo, Tran Thi Ngoc Thu, Duong Thi Lim, Pham Duy Dong, Wei Lun Ang, **Pau Loke Show\***. (2021) "Advanced green bioprocess of soil carbohydrate extraction from long-term conversion of forest soil to paddy field" *Journal of Environmental Chemical*

Engineering, 9, 106021. [Accepted 6 July 2021, IF: 5.909(2020)]

482. Tai-Hong Cheng, Revathy Sankaran, **Pau Loke Show**, Chien Wei Ooi, Bing-Lan Liu, Wai Siong Chai, Yu-Kaung Chang\*. (2021) "Removal of protein wastes by cylinder-shaped NaY zeolite adsorbents decorated with heavy metal wastes" International Journal of biological macromolecules, 185, 761-772. [Accepted 27 June 2021, IF: 6.953(2020)]
483. Nguyen Thi Hien Trang, Doris Ying Ying Tang, Kit Wayne Chew\*, Nguyen Thi Linh, Nguyen Tien Cuong, Hoang Thi Yen, Nguyen Thi Thao, Nguyen Thi Trung, **Pau Loke Show**, Do Thi Tuyen\*. (2021) "Discovery of  $\alpha$ -Glucosidase Inhibitors from Marine Microorganisms: Optimization of Culture Conditions and Medium Composition" Molecular biotechnology. [Accepted 20 June 2021, IF: 2.695(2020)]
484. Sakhon Ratchahat\*, Atthapon Srifa, Wanida Koo-amornpattana, Chularat Sakdaronnarong, Tawatchai Charinpanitkul, Kevin C-W Wu, **Pau-Loke Show**, Satoshi Kodama, Wiwut Tanthapanichakoon, Hidetoshi Sekiguchi. (2021) "Syngas production with low tar content from cellulose pyrolysis in molten salt combined with Ni/Al<sub>2</sub>O<sub>3</sub> catalyst" Journal of Analytical and Applied Pyrolysis, 158, 105243. [Accepted 22 June 2021, IF: 5.541(2020)]
485. Elaine Low, Si-Min Huang, Minlin Yang, **Pau Loke Show**, Chung Lim Law\*. (2021) "Design of Cascade Analysis for Renewable and Waste Heat Recovery in a Solar Thermal Regeneration Unit of a Liquid Desiccant Dehumidification System" Energy, 235, 121284. [Accepted 16 June 2021, IF: 7.147(2020)]
486. Shazia Ali, Angela Paul Peter, Kit Wayne Chew, Heli Siti Halimatul Munawaroh, **Pau Loke Show**\*. (2021) "Resource recovery from industrial effluents through the cultivation of microalgae: A review" Bioresource technology, 337,125461. [Accepted 23 June 2021, IF: 9.642(2020)]
487. Kuan Shiong Khoo, Wen Yi Chia, Kexin Wang, Chih-Kai Chang, Hui Yi Leong, Muhammad Nasrulhazim Bin Maaris, **Pau Loke Show**\*. (2021) "Development of proton-exchange membrane fuel cell with ionic liquid technology" Science of The Total Environment, 793, 148705. [Accepted 23 June 2021, IF: 7.963(2020)]
488. Irfan Navabshah, Balasubramanian Sakthivel, Rajesh Pandiyan, Mariya Gover Antoniraj, Selvakumar Dharmaraj, Veeramuthu Ashokkumar, Kuan Shiong Khoo, Kit Wayne Chew, Abimanyu Sugumaran, **Pau Loke Show**\*. (2021) "Computational Lock and Key and Dynamic Trajectory Analysis of Natural Biophors Against COVID-19 Spike Protein to Identify Effective Lead Molecules" Molecular Biotechnology, 1-11. [Accepted 13 June 2021, IF: 2.695(2020)]
489. Trinh Thi Phuong Thao, Truong Thi Phuong Lan, Tran Vinh Phuong, Hai Thi Hong Truong, Kuan Shiong Khoo, Sivakumar Manickam, Truong Thi Hoa, Nguyen Duy Quynh Tram, **Pau Loke Show**\*, Nguyen Duc Huy\*. (2021) "Characterization halotolerant lactic acid bacteria *Pediococcus pentosaceus* HN10 and in vivo evaluation for bacterial pathogens inhibition" Chemical Engineering and Processing-Process Intensification, 168, 108576. [Accepted 23 July 2021, IF: 4.237(2020)]
490. Xuan-Thanh Bui\*, Bao-Trong Dang, Thanh-Tin Nguyen, Van-Truc Nguyen, Duyen PH Tran, Phuong-Thao Nguyen, Marisa Boller, Kun-Yi Andrew Lin, Sunita Varjani, **Pau Loke Show**. (2021) "Influence of organic loading rates on treatment performance of membrane bioreactor treating tannery wastewater" Environmental Technology & Innovation, 24, 101810. [Accepted 20 July 2021, IF: 5.263(2020)]
491. Congyu Zhang, Shih-Hsin Ho, Wei-Hsin Chen\*, Rupeng Wang, **Pau-Loke Show**, Hwai Chyuan Ong. (2021) "Oxidative torrefaction performance of microalga *Nannochloropsis Oceanica* towards

- an upgraded microalgal solid biofuel, *Journal of Biotechnology*, 338, 81-90. [Accepted 13 July 2021, IF: 3.307(2020)]
492. Kexin Wang, Kuan Shiong Khoo, Hui Yi Leong, Dillirani Nagarajan, Kit Wayne Chew, Huong Yong Ting, Anurita Selvarajoo, Jo-Shu Chang\*, **Pau Loke Show\***. (2021) "How does the Internet of Things (IoT) help in microalgae biorefinery?" *Biotechnology Advances*, 107819. [Accepted 22 August 2021, IF: 14.227(2020)]
493. Reema Ansar, Sidra Saqib, Ahmad Mukhtar, Muhammad Bilal Khan Niazi, Muhammad Shahid, Zaib Jahan, Salik Javed Kakar, Bushra Uzair, Muhammad Mubashir, Sami Ullah, Kuan Shiong Khoo, Hooi Ren Lim, **Pau Loke Show\***. (2021) "Challenges and recent trends with the development of hydrogel fibre for biomedical applications" *Chemosphere*, 287, 131956. [Accepted 18 August 2021, IF: 7.086(2020)]
494. Saira Asif, Muhammad Mubashir, Jiří Jaromír Klemeš, Sidra Saqib, Ahmad Mukhtar, Awais Bokhari, Jacqueline Lukose, Apurav Krishna Koyande, Kit Wayne Chew, **Pau Loke Show\***. (2021) "Enhanced production of non-edible *Xanthium spinosum*-based biodiesel using waste biomass under dynamic conditions" *Biomass Conversion and Biorefinery*, 1-12. [Accepted 19 July 2021, IF: 4.987(2020)]
495. Wei-Hsin Chen\*, Zih-Yu Chen, Steven Lim, Young-Kwon Park, **Pau-Loke Show**. (2021) "Hydrogen permeation in a palladium membrane tube: Impacts of outlet and vacuum degree" *International Journal of Hydrogen Energy*. [Accepted 22 July 2021, IF: 5.816(2020)]
496. Nadeem A Khan, Awais Bokhari\*, Muhammad Mubashir, Jiří Jaromír Klemeš, Rachida El Morabet, Roohul Abad Khan, Majed Alsubih, Mudassar Azam, Sidra Saqib, Ahmad Mukhtar, Apurav Koyande, **Pau Loke Show\***. (2021) "Treatment of Hospital wastewater with submerged aerobic fixed film reactor coupled with tube-settler" *Chemosphere*, 286, 131838. [Accepted 6 August 2021, IF: 7.086(2020)]
497. Muhammad Usman\*, Saifuddin Nomanbhay\*, Mei Yin Ong, Muhammad Wajid Saleem, Muneeb Irshad, Zain Ul Hassan, Fahid Riaz, Muhammad Haris Shah, Muhammad Abdul Qyyum\*, Moonyong Lee\*, **Pau Loke Show\***. (2021) "Response Surface Methodology Routed Optimization of Performance of Hydroxy Gas Enriched Diesel Fuel in Compression Ignition Engines" *Processes*, 9, 1355. [Accepted 27 July 2021, IF: 2.847(2020)]
498. Chiu-Yue Lin, Wai Siong Chai, Chyi-How Lay\*, Chin-Chao Chen, Chun-Yi Lee, **Pau Loke Show\***. (2021) "Optimization of Hydrolysis-Acidogenesis Phase of Swine Manure for Biogas Production Using Two-Stage Anaerobic Fermentation" *Processes*, 9, 1324. [Accepted 28 July 2021, IF: 2.847(2020)]
499. Apurav Krishna Koyande, Kit Wayne Chew, Sivakumar Manickam, Jo-Shu Chang\*, **Pau-Loke Show\***. (2021) "Emerging algal nanotechnology for high-value compounds: A direction to future food production" *Trends in Food Science & Technology*, 116, 290-302. [Accepted 21 July 2021, IF: 12.563(2020)]
500. Pham Thi Lanh, Huong Minh Nguyen, Bui Thi Thuy Duong, Nguyen Thi Hoa, Luu Thi Tam, Ha Thi Thu, Vo Van Nha, Dang Diem Hong, Aidyn Mouradov, Apurav Krishna Koyande, **Pau-Loke Show\***, Dong Van Quyen\*. (2021) "Generation of microalga *Chlamydomonas reinhardtii* expressing VP28 protein as an oral vaccine candidate for shrimps against White Spot Syndrome Virus (WSSV) infection" *Aquaculture*, 540, 736737. [Accepted 4 April 2021, 4.242(2020)]

501. Chung Hong Tan, Mei Yin Ong, Saifuddin M Nomanbhay\*, Abd Halim Shamsuddin, **Pau Loke Show**. (2021) "The Influence of COVID-19 on Global CO2 Emissions and Climate Change: A Perspective from Malaysia" *Sustainability*, 13, 8461. [Accepted 23 July 2021, IF: 3.251(2020)]
502. Ao Xia\*, **Pau Loke Show**, Alissara Reungsang, Timothy Gordon Walmsley. (2021) "Innovative Technology and System Integration for Gaseous Biofuels Production" *Frontiers in Energy Research*, 9, 303. [Accepted 31 May 2021, IF: 4.008(2020)]
503. Khuram Maqsood, Abulhassan Ali\*, Suhaib Umer Ilyas, Sahil Garg, Mohd Danish, Aymn Abdulrahman, Saeed Rubaiee, Mustafa Alsaady, Abdulkader S Hanbazazah, Abdullah Bin Mahfouz, Syahrir Ridha, Muhammad Mubashir, Hooi Ren Lim, Kuan Shiong Khoo, **Pau Loke Show\***, (2022) "Multi-objective optimization of thermophysical properties of multiwalled carbon nanotubes based nanofluids" *Chemosphere*, 286, 131690. [Accepted 25 July 2021, IF: 7.086(2020)]
504. Saravanan Rajendran, TAK Priya, Kuan Shiong Khoo, Tuan KA Hoang, Hui-Suan Ng, Heli Siti Halimatul Munawaroh, Ceren Karaman, Yasin Orooji, **Pau Loke Show\***. (2021) "A critical review on various remediation approaches for heavy metal contaminants removal from contaminated soils" *Chemosphere*, 132369. [Accepted 24 September 2021, IF: 7.086(2020)]
505. A Saravanan, P Senthil Kumar, Kuan Shiong Khoo, **Pau-Loke Show**, C Femina Carolin, C Fetcia Jackulin, S Jeevanantham, S Karishma, Kuan-Yeow Show, Duu-Jong Lee, Jo-Shu Chang\*. (2021) "Biohydrogen from organic wastes as a clean and environment-friendly energy source: Production pathways, feedstock types, and future prospects" *Bioresource Technology*, 342, 126021. [Accepted 21 September 2021, IF: 9.642(2020)]
506. Nguyen-Sy Toan\*, Nguyen Thi Dong Phuong\*, Tran Thi Ngoc Thu, Duong Thi Lim, Pham Duy Dong, Nguyen Thanh Gia, Kuan Shiong Khoo, Kit Wayne Chew, **Pau Loke Show\***. (2021) "Soil mineralization as effects of plant growth promoting bacteria isolated from microalgae in wastewater and rice straw application in a long-term paddy rice in Central Viet Nam" *Environmental Technology & Innovation*, 101982. [Accepted 19 September 2021, IF: 5.263(2020)]
507. Jie Yang, Qingzheng Zhu, Jinlong Chai, Feng Xu, Yunfei Ding, Qiang Zhu, Zhaoxin Lu, Kuan Shiong Khoo, Xiaoying Bian, Shujun Wang\*, **Pau Loke Show\***. (2021) "Development of environmentally friendly biological algicide and biochemical analysis of the inhibitory effect of diatom *Skeletonema costatum*" *Chinese Chemical Letters*. [Accepted 15 September 2021, IF: 6.779(2020)]
508. Jun Wei Chong, Kuan Shiong Khoo, Guo Yong Yew, Wai Hong Leong, Jun Wei Lim, Man Kee Lam, Yeek-Chia Ho, Hui Suan Ng, Heli Siti Halimatul Munawaroh, **Pau Loke Show\***. (2021) "Advances in the production of bioplastics by microalgae using food waste hydrolysate and wastewater: A review" *Bioresource Technology*, 342, 125947. [Accepted 12 September 2021, IF: 9.642(2020)]
509. Angela Paul Peter, Kit Wayne Chew, Apurav Krishna Koyande, Sia Yuk-Heng, Huong Yong Ting, Saravanan Rajendran, Heli Siti Halimatul Munawaroh, Chang Kyoo Yoo, **Pau Loke Show\***. (2021) "Cultivation of *Chlorella vulgaris* on dairy waste using vision imaging for biomass growth monitoring" *Bioresource Technology*, 341, 125892. [Accepted 2 September 2021, IF:

9.642(2020)]

510. Surendar Moogi, Seong-Ho Jang, Gwang Hoon Rhee, Chang Hyun Ko, Yong Jun Choi, See Hoon Lee, **Pau Loke Show**, Kun-Yi Andrew Lin, Young-Kwon Park\*. (2021) "Hydrogen-rich gas production via steam gasification of food waste over basic oxides (MgO/CaO/SrO) promoted-Ni/Al<sub>2</sub>O<sub>3</sub> catalysts" *Chemosphere*, 287, 132224. [Accepted 7 September 2021, IF: 7.086(2020)]
511. Chi Cheng Chong, Yoke Wang Cheng, Syukriyah Ishak, Man Kee Lam\*, Jun Wei Lim, Inn Shi Tan, **Pau Loke Show**, Keat Teong Lee. (2021) "Anaerobic digestate as a low-cost nutrient source for sustainable microalgae cultivation: A way forward through waste valorization approach" *Science of The Total Environment*, 803, 150070. [Accepted 28 August 2021, IF: 7.963(2020)]
512. Dhandapani Balaji, Jagannathan Madhavan\*, Mohamad S AlSalhi, Mamduh J Aljaafreh, Saradh Prasad\*, **Pau Loke Show**. (2021) "Carbon supported Ni<sub>3</sub>N/Ni heterostructure for hydrogen evolution reaction in both acid and alkaline media" *International Journal of Hydrogen Energy*, 46, 30739-30749. [Accepted 24 June 2021, IF: 5.816(2020)]
513. A Saravanan, P Senthil Kumar, Nurul Syahirah Mat Aron, S Jeevanantham, S Karishma, PR Yaashikaa, Kit Wayne Chew, **Pau Loke Show\***. (2021) "A review on bioconversion processes for hydrogen production from agro-industrial residues" *International Journal of Hydrogen Energy*. [Accepted 11 August 2021, IF: 5.816(2020)]
514. Sze Shin Low\*, Chang Nong Lim, Maxine Yew, Wai Siong Chai, Liang Ee Low, Sivakumar Manickam\*, Beng Ti Tey, **Pau Loke Show**. (2021) "Recent ultrasound advancements for the manipulation of nanobiomaterials and nanoformulations for drug delivery" *Ultrasonics Sonochemistry*, 80, 105805. [Accepted 20 October 2021, IF: 7.491(2020)]
515. E Águila-Almanza, H Hernández-Cocoletzi\*, E Rubio-Rosas, M Calleja-González, Hooi Ren Lim, Kuan Shiong Khoo, Vijai Singh, JC Maldonado-Montiel, **Pau Loke Show\***. "Recuperation and characterization of calcium carbonate from residual oyster and clamshells and their incorporation into a residential finish" *Chemosphere*, 132550. [Accepted 10 October 2021, IF: 7.086(2020)]
516. Hanie Hakimian, Sumin Pyo, Young-Min Kim, Jungho Jae, **Pau Loke Show**, Gwang Hoon Rhee, Wei-Hsin Chen, Young-Kwon Park\*. (2021) "Increased aromatics production by co-feeding waste oil sludge to the catalytic pyrolysis of cellulose" *Energy*, 239, 122331. [Accepted 11 October 2021, IF: 7.147(2020)]
517. Yongqiu Cai, Hooi Ren Lim, Kuan Shiong Khoo\*, Hui-Suan Ng, Yanxue Cai, Jihui Wang, Andy Tak-Yee Chan, **Pau Loke Show\***. (2021) "An integration study of microalgae bioactive retention: From microalgae biomass to microalgae bioactives nanoparticle" *Food and Chemical Toxicology*, 158, 112607. [Accepted 10 October 2021, IF: 6.025(2020)]
518. Yoke Wang Cheng, Jeremy Sheng Ming Lim, Chi Cheng Chong, Man Kee Lam\*, Jun Wei Lim, Inn Shi Tan, Henry Chee Yew Foo, **Pau Loke Show**, Steven Lim. (2021) "Unravelling CO<sub>2</sub> capture performance of microalgae cultivation and other technologies via comparative carbon balance analysis" *Journal of Environmental Chemical Engineering*, 9, 106519. [Accepted 4 October 2021, IF: 5.909(2020)]
519. Sumra Nawaz, Mushtaq Ahmad, Saira Asif, Jiří Jaromír Klemeš, Muhammad Mubashir, Mamoona Munir, Muhammad Zafar, Awais Bokhari, Ahmad Mukhtar, Sidra Saqib, Kuan Shiong

- Khoo, **Pau Loke Show**\*. (2021) "Phyllosilicate derived catalysts for efficient conversion of lignocellulosic derived biomass to biodiesel: a review" *Bioresource Technology*, 126068. [Accepted 29 September 2021, IF: 9.642(2020)]
520. Ceren Karaman\*, Onur Karaman\*, **Pau-Loke Show**, Yasin Orooji, Hassan Karimi-Maleh. (2021) "Utilization of a double-cross-linked amino-functionalized three-dimensional graphene networks as a monolithic adsorbent for methyl orange removal: Equilibrium, kinetics ..." *Environmental Research*, 112156. [Accepted 24 September 2021, IF: 6.498(2020)]
521. Soheil Valizadeh, Chang Hyun Ko, Jechan Lee, See Hoon Lee, Yeon Jeong Yu, **Pau Loke Show**, Gwang Hoon Rhee, Young-Kwon Park\*. (2021) "Effect of eggshell-and homo-type Ni/Al<sub>2</sub>O<sub>3</sub> catalysts on the pyrolysis of food waste under CO<sub>2</sub> atmosphere" *Journal of Environmental Management*, 294, 112959. [Accepted 29 May 2021, IF: 6.789(2020)]
522. Thi Ngoc Thu Tran, Thi Dong Phuong Nguyen\*, Ha Thuong Dinh, Thi Tho Bui, Le Han Ho\*, Truc Xuyen Nguyen-Phan, Kuan Shiong Khoo, Kit Wayne Chew\*, **Pau Loke Show**\*. (2021) "Characterization of bacteria type strain *Bacillus*. spp isolated from extracellular polymeric substance harvested in seafood wastewater" *Journal of Chemical Technology & Biotechnology*. [Accepted 29 July 2021, IF: 3.174(2020)]
523. Qiulian Yang, Yuan Gao, Jian Ke, **Pau Loke Show**, Yuhui Ge, Yanhua Liu, Ruixin Guo\*, Jianqiu Chen\*. (2021) "Antibiotics: An overview on the environmental occurrence, toxicity, degradation, and removal methods" *Bioengineered*, 12, 7376-7416. [Accepted 25 Aug 2021, IF: 3.269(2020)]
524. Shir Reen Chia, Saifuddin Nomanbhay, Mei Yin Ong, Kit Wayne Chew, Kuan Shiong Khoo, Hassan Karimi-Maleh, **Pau Loke Show**\*. (2021) "Recent Development of Renewable Diesel Production Using Bimetallic Catalysts" *Frontiers in Energy Research*, 621. [Accepted 23 Sep 2021, IF: 4.008(2020)]
525. Nisarg Gohil, Gargi Bhattacharjee, Ravi Kalariya, Vikrant Pandya, Khushal Khambhati, Jigresh Gohil, Khalid J Alzahrani, **Pau-Loke Show**, Rupesh Maurya, Vijai Singh\*. (2021) "Biovalorization of agro-industrial waste soybean meal for the production of prodigiosin by *Serratia marcescens*" *Biomass Conversion and Biorefinery*, 1-12. [Accepted 23 November 2021, 4.987(2020)]
526. Soheil Valizadeh, Seong-Ho Jang, Gwang Hoon Rhee, Jechan Lee, **Pau Loke Show**, Moonis Ali Khan, Byong-Hun Jeon, Kun-Yi Andrew Lin, Chang Hyun Ko, Wei-Hsin Chen, Young-Kwon Park\*. (2021) "Biohydrogen Production from Furniture Waste via Catalytic Gasification in Air over Ni-loaded Ultra-stable Y-type Zeolite" *Chemical Engineering Journal*, 133793. [Accepted 19 November 2021, IF: 13.273(2020)]
527. Sikander Rafiq, Nawshad Muhammad, Fozia Rehman, Muhammad Irfan, Shafiq Uz Zaman, Farrukh Jamil, Sidra Saqib, Ahmad Mukhtar, Kuan Shiong Khoo, Muhammad Mubashir, Pau Loke Show. (2021) "Surface tuning of silica by deep eutectic solvent to synthesize biomass derived based membranes for gas separation to enhance the circular bioeconomy" *Fuel*, 122355. [Accepted 20 October 2021, IF: 6.609(2021)]
528. Ahmed Tawfik, Radwa Moanis, Muhammad Abdul Qyyum, Sheena Kumari, Faizal Bux, Hafiz Muhammad Uzair Ayub, Mohd Shariq Khan, Awais Bokhari, Muhammad Mubashir, Kuan Shiong Khoo, **Pau Loke Show**. (2021) "Sustainable fermentation approach for biogenic hydrogen productivity from delignified sugarcane bagasse" *International Journal of Hydrogen Energy*.

[Accepted 22 September 2021, IF: 5.816(2020)]

529. SLY Lo, KGH Kong, BS How\*, JY Lim, **PL Show**, J Sunarso. "Techno-economic evaluation of microalgae-based supply chain: Review on recent approaches" IOP Conf. Series: Materials Science and Engineering.
530. Muhammad Mubashir\*, Rahman Ashena, Awais Bokhari, Ahmad Mukhtar, Sidra Saqib, Abulhassan Ali, Saidur Rahman, Kuan Shiong Khoo, Hui Suan Ng, Fatemeh Karimi, Ceren Karaman, **Pau Loke Show\***. (2021) "Effect of process parameters over carbon-based ZIF-62 nano-rooted membrane for environmental pollutants separation" Chemosphere, 133006. [Accepted 18 November 2021, IF: 7.086(2020)]
531. Saima Qureshi\*, Mudassar Mumtaz, Fai Kait Chong, Ahmad Mukhtar, Sidra Saqib, Sami Ullah, Muhammad Mubashir, Kuan Shiong Khoo, **Pau Loke Show\***. (2021) "A review on sensing and catalytic activity of nano-catalyst for the synthesis of one-step ammonia and urea: Challenges and perspectives" Chemosphere, 132806. [Accepted 4 November 2021, IF: 7.086(2020)]
532. Khai Yang Tan, Zheng Xuan Hoy, **Pau Loke Show**, Nay Ming Huang, Hong Ngee Lim, Chuan Yi Foo\*. (2021) "Single Droplet 3D Printing of Electrically Conductive Resin Using High Aspect Ratio Silver Nanowires" Additive Manufacturing, 48, 102473. [Accepted 5 November 2021, IF: 10.998(2020)]
533. K Dhandayuthapani, P Senthil Kumar\*, Wen Yi Chia, Kit Wayne Chew, V Karthik, H Selvarangaraj, P Selvakumar\*, P Sivashanmugam, **Pau Loke Show\***.(2021) "Bioethanol from hydrolysate of ultrasonic processed robust microalgal biomass cultivated in dairy wastewater under optimal strategy" Energy, 122604. [Accepted 9 November 2021, IF: 7.147(2020)]
534. Selvakumar Dharmaraj, Veeramuthu Ashokkumar\*, Kit Wayne Chew, Shir Reen Chia, **Pau Loke Show**, Chawalit Ngamcharussrivichai\*.(2021) "Novel strategy in biohydrogen energy production from COVID-19 plastic waste: A critical review" International Journal of Hydrogen Energy, Accepted 26 August 2021, IF: 5.816(2020)]
535. Sze Shin Low, Daizong Ji, Wai Siong Chai, Jingjing Liu\*, Kuan Shiong Khoo, Sadegh Salmanpour, Fatemeh Karimi, Balakrishnan Deepanraj, **Pau Loke Show\***. (2021) "Recent Progress in Nanomaterials Modified Electrochemical Biosensors for the Detection of MicroRNA" Micromachines, 12, 1409. [Accepted 15 November 2021, IF: 2.891(2020)]
536. Farhana Iylia Fatinee Mohd Yusree, Angela Paul Peter, Mohd Zuhair Mohd Nor\*, **Pau Loke Show\***, Mohd Noriznan Mokhtar. (2021) "Latest Advances in Protein-Recovery Technologies from Agricultural Waste" Foods, 10, 2748. [Accepted 3 November 2021, 4.350(2020)]
537. Marttin Paulraj Gundupalli, Santi Chuetor, Kraipat Cheenkachorn, Kittipong Rattanaporn, **Pau-Loke Show**, Yu-Shen Cheng, Malinee Sriariyanun\*. (2021) "Interferences of Waxes on Enzymatic Saccharification and Ethanol Production from Lignocellulose Biomass" Bioengineering, 8, 171. [Accepted 30 October 2021]
538. Amir Izzuddin Adnan, Mei Yin Ong, Saifuddin Nomanbhay\*, **Pau Loke Show**. (2021) "Determination Culture Media: of Evaluation Dissolved of CO pH 2 Concentration Value and in Mathematical Data." Processes, 8, 1373. [Accepted 26 October 2020, IF: 2.847(2020)]
539. Chen Wei-Hsin\*, Hwai Chyuan Ong\*, Shih-Hsin Ho\*, **Pau Loke Show\***. (2021) "Green

Energy Technology" Energies, 14, 6842. [Accepted: 14 October 2021, IF: 3.004(2020)]

540. Hizba Waheed, Sarah Farrukh\*, Arshad Hussain, Amir Mukhtar, Muhammad Mubashir, Sidra Saqib, Sami Ullah, Angela Paul Peter, Kuan Shiong Khoo\*, **Pau Loke Show\***. (2021) "Green synthesized nano-cellulose polyethylene imine-based biological membrane" Food and Chemical Toxicology, 112773. [Accepted 17 December 2021, IF: 6.025(2020)]
541. Angela Paul Peter, Xuefei Tan\*, Juin Yau Lim, Kit Wayne Chew\*, Apurav Krishna Koyande, **Pau Loke Show\***. (2021) "Environmental analysis of Chlorella vulgaris cultivation in large scale closed system under waste nutrient source" Chemical Engineering Journal, 134254. [Accepted 16 December 2021, IF: 13.273(2020)]
542. Dang Khoa Tran, Thuy Nguyen Thi Phuong, Nhat-Le Bui, Vijai Singh, Qi Hao Looi, Benson Koh, Ungku Mohd Shahrin B Mohd Zaman, Jhi Biau Foo, Chia-Ching Wu, **Pau Loke Show\***, Dinh-Toi Chu\*. (2021) "Exploring the potential of stem cell-based therapy for aesthetic and plastic surgery" IEEE Reviews in Biomedical Engineering.
543. R Sankaran, K Markandan, KS Khoo\*, CK Cheng\*, V Ashokkumar, B Deepanraj, **PL Show\***. (2021) "The Expansion of Lignocellulose Biomass Conversion Into Bioenergy" Frontiers in Nanotechnology, 3, 793528. [Accepted 29 Nov 2021]

#### **Book Chapter:**

544. Adrian Chun Minh Loy, Bridgid Lai Fui Chin, Revathy Sankaran. (2021) "Industrial Revolution 1.0 and 2.0" (pp 1-14) in *The Prospect of Industry 5.0 in Biomanufacturing*. CRC Press.
545. Chung Hong Tan. (2021) "Industry 3.0" (pp 15-32) in *The Prospect of Industry 5.0 in Biomanufacturing*. CRC Press.
546. Khalisanni Khalid, Shir Reen Chia, Kit Wayne Chew, **Pau Loke Show**. (2021) "Industry 4.0" (pp 33-56) in *The Prospect of Industry 5.0 in Biomanufacturing*. CRC Press.
547. Omar Ashraf ElFar, Angela Paul A/p Peter, Kit Wayne Chew, **Pau Loke Show**. (2021) "What Is Industry 5.0?" (pp 57-94) in *The Prospect of Industry 5.0 in Biomanufacturing*. CRC Press.
548. Yoong Kit Leong, Jian Hong Tan, Kit Wayne Chew, **Pau Loke Show**. (2021) "Significance of Industry 5.0" (pp 95-114) in *The Prospect of Industry 5.0 in Biomanufacturing*. CRC Press.
549. Zahid Majeed, Muhammad Mubashir, Meng-Choung Chiong. (2021) "Transition of Bio-manufacturing Industry from 4.0 to 5.0: Advances and Challenges" (pp 115-134) in *The Prospect of Industry 5.0 in Biomanufacturing*. CRC Press.
550. Zahra Nashath, Doris Ying Ying Tang, Kit Wayne Chew, **Pau Loke Show**. (2021) "Medicine and Pharmaceuticals Biomanufacturing - Industry 5.0" (pp 135-160) in *The Prospect of Industry 5.0 in Biomanufacturing*. CRC Press.
551. Deepshika Deepak, Wen Yi Chia, Kit Wayne Chew, **Pau Loke Show**. (2021) "Food and Beverage Bio-manufacturing - Industry 5.0" (pp 161-180) in *The Prospect of Industry 5.0 in Biomanufacturing*. CRC Press.
552. Mei Yin Ong, Saifuddin Nomanbhay, Kuan Shiong Khoo, **Pau Loke Show**. (2021) "Fuel and Biofuels: Incorporation of Industry 5.0 to Biofuel Industry" (pp 181-210) in *The Prospect of Industry 5.0 in Biomanufacturing*. CRC Press.
553. Xuwei Liu, Jilu Feng, Yang Tao. (2021) "Application of Industry 5.0 on Fruit and Vegetables Processing" (pp 211-228) in *The Prospect of Industry 5.0 in Biomanufacturing*. CRC Press.

554. Nurul Natasha binti Azhar, Kai Ling Yu, Tau Chuan Ling, **Pau Loke Show**. (2021) "Application of Industry 5.0 in the Production of Fine Chemicals and Biopolymers" (pp 229-256) in *The Prospect of Industry 5.0 in Biomanufacturing*. CRC Press.
555. Yee Ho Chai, Guo Yong Yew, Suzana Yusup, **Pau Loke Show**. (2021) "State-of-the-Art Technologies in Industry 5.0" (pp 257-286) in *The Prospect of Industry 5.0 in Biomanufacturing*. CRC Press.
556. Hui Shi Saw, Abdul Azim bin Azmi, Kit Wayne Chew, **Pau Loke Show**. (2021) "Sustainability and Development of Industry 5.0" (pp 287-304) in *The Prospect of Industry 5.0 in Biomanufacturing*. CRC Press.
557. Apurav Krishna Koyande, Vishno Vardhan, Kit Wayne Chew Devadas, **Pau Loke Show**. (2021) "Industrial Perspective of Industry 5.0" (pp 305-310) in *The Prospect of Industry 5.0 in Biomanufacturing*. CRC Press.

## 2020

558. Yang Tao, Yue Wu, Yongbin Han\*, Farid Chemat, Dandan Li, **Pau-Loke Show**. (2019) "Insight into mass transfer during ultrasound-enhanced adsorption/desorption of blueberry anthocyanins on macroporous resins by numerical simulation considering the ultrasonic influence on resin properties" *Chemical Engineering Journal*, 380, article 122530, pp. 1-13. [Accepted 16 August 2019; IF: 8.355 (2018)]
559. Liandong Zhu\*, Tianyi Hu, Shuangxi Li, Yohanes K Nugroho, Baishan Li, Jun Cao, **Pau-Loke Show**, Erkki Hiltunen. (2020) "Effects of operating parameters on algae *Chlorella vulgaris* biomass harvesting and lipid extraction using metal sulfates as flocculants" *Biomass and Bioenergy*, 132, 105433. [Accepted 21 November 2019; IF: 3.537 (2018)]
560. Chung Hong Tan, **Pau Loke Show\***, Man Kee Lam, Xiaoting Fu, Tau Chuan Ling, Chun-Yen Chen, Jo-Shu Chang. (2020) "Examination of indigenous microalgal species for maximal protein synthesis" *Biochemical Engineering Journal*, 154, 107425. [Accepted 2 November 2019; IF: 3.371 (2018)]
561. Uganeeswary Suparmaniam, Man Kee Lam\*, Yoshimitsu Uemura, Siew Hoong Shuit, Jun Wei Lim, **Pau Loke Show**, Keat Teong Lee, Yukihiko Matsumura, Phung Thi Kim Le. (2020) "Flocculation of *Chlorella vulgaris* by shell waste-derived bioflocculants for biodiesel production: Process optimization, characterization and kinetic studies" *Science of The Total Environment*, 702, 134995. [Accepted 14 October 2019; IF: 5.589 (2018)]
562. Jia Sen Tan, Sze Ying Lee, Kit Wayne Chew, Man Kee Lam, Jun Wei Lim, Shih-Hsin Ho, **Pau Loke Show\***. (2020). "A Review on Microalgae Cultivation and Harvesting, and Their Biomass Extraction Processing Using Ionic Liquids" *Bioengineered*. [Accepted 7 January 2020; IF: 1.544(2018)]
- 563.** Revathy Sankaran, **Pau Loke Show**, Chien-Wei Ooi, Tau Chuan Ling, Chen Shu-Jen, Siao-Ying Chen, Yu-Kaung Chang\*. (2020). "Feasibility assessment of the removal of heavy metals and soluble microbial products from aqueous solutions using eggshell wastes" *Clean Technologies and Environmental Policy*, 1-14. [Accepted 9 December 2019; IF: 2.277(2018)]
564. Wai Yan Cheah\*, **Pau Loke Show\***, Yee Jiun Yap, Hayyiratul Fatimah Mohd Zaid, Man Kee Lam, Jun Wei Lim, Yeek-Chia Ho, Yang Tao. (2020). "Enhancing microalga *Chlorella sorokiniana* CY-1 biomass and lipid production in palm oil mill effluent (POME) using novel-designed photobioreactor" *Bioengineered*, 11(1), 61-69. [Accepted 18 November 2019; IF: 1.544(2018)]
565. Zafri Mohd Mokhta, Mei Yin Ong, Bello Salman, Saifuddin Nomanbhay\*, Siti Fatimah Salleh, Kit Wayne Chew, **Pau-Loke Show\***, Wei-Hsin Chen\*. (2020). "Simulation studies on

- microwave-assisted pyrolysis of biomass for bioenergy production with special attention on waveguide number and location" *Energy*, 190, 116474. [Accepted 1 November 2019; IF: 5.537(2018)]
566. Kuan Shiong Khoo, Hui Yi Leong, Kit Wayne Chew, Jun-Wei Lim, Tau Chuan Ling, **Pau Loke Show\***, Hong-Wei Yen\*. (2020). "Liquid Biphasic System: A Recent Bioseparation Technology" *Processes*, 8(2), 149. [Accepted 17 January 2020; IF: 1.963(2018)]
567. Abdul Azim bin Azmi, Revathy Sankaran, **Pau Loke Show**, Tau Chuan Ling, Yang Tao, Heli Siti Halimatul Munawaroh, Pei San Kong, Duu-Jong Lee, Jo-Shu Chang\*. (2020). "Current Application of Electrical Pre-treatment for Enhanced Microalgal Biomolecules Extraction" *Bioresource Technology*, 122874. [Accepted 20 January 2020; IF: 6.669 (2018)]
568. Bo-Jhih Lin, Wei-Hsin Chen\*, Yu-Ying Lin, Jo-Shu Chang, Abid Farooq, Yashvir Singh, Hwai Chyuan Ong, **Pau Loke Show**. (2020). "An evaluation of thermal characteristics of bacterium *Actinobacillus succinogenes* for energy use and circular bioeconomy" *Bioresource Technology*, 122774. [Accepted 7 January 2020; IF: 6.669 (2018)]
569. Wen Yi Chia, Kuan Shiong Khoo, Shir Reen Chia, Kit Wayne Chew, Guo Yong Yew, Yeek-Chia Ho\*, **Pau Loke Show\***, Wei-Hsin Chen\*. (2020). "Factors Affecting the Performance of Membrane Osmotic Processes for Bioenergy Development" *Energies*, 13(2), 481. [Accepted 14 January 2020; IF: 2.707 (2018)]
570. Luan TranVan, Vincent Legrand, Pascal Casari, Revathy Sankaran, **Pau Loke Show\***, Aydin Berenjian\*, Chyi-How Lay. (2020). "Hygro-Thermo-Mechanical Responses of Balsa Wood Core Sandwich Composite Beam Exposed to Fire" *Processes*, 8(1), 103. [Accepted 9 January 2020; IF: 1.963(2018)]
571. Yue Wu, Yongbin Han\*, Yang Tao\*, Dandan Li, Guangjie Xie, **Pau Loke Show**, Sze Ying Lee. (2020). "In vitro, gastrointestinal digestion and faecal fermentation reveal the effect of different encapsulation materials on the release, degradation and modulation of gut microbiota of blueberry anthocyanin extract" *Food Research International*, 109098. [Accepted 11 February 2020; IF: 3.579(2018)]
572. Kuan Shiong Khoo, Kit Wayne Chew, Guo Yong Yew, Wai Hong Leong, Yee Ho Chai, **Pau Loke Show**, Wei-Hsin Chen\*. (2020). "Recent Advances in Downstream Processing of Microalgae Lipid Recovery for Biofuel Production" *Bioresource Technology*, 122996. [Accepted 8 February 2020; IF: 6.669 (2018)]
573. Doris Ying Ying Tang, Kuan Shiong Khoo, Kit Wayne Chew, Yang Tao, Shih-Hsin Ho, **Pau Loke Show\***. (2020). "Potential Utilization of Bioproducts from Microalgae for the Quality Enhancement of Natural Products" *Bioresource Technology*, 122997. [Accepted 8 February 2020; IF: 6.669 (2018)]
574. Apurav Krishna Koyande, Vera Tanzil, Haridharan Murrally Dharan, Manivarman Subramaniam, Ryann Noel Robert, Phei Li Lau, Ianatul Khoiroh, **Pau-Loke Show\***. (2020). "Integration of osmotic shock assisted liquid biphasic system for protein extraction from microalgae *Chlorella vulgaris*" *Biochemical Engineering Journal*, 107532. [Accepted 7 February 2020; IF: 3.371 (2018)]
575. Khanh Do Nam\*, Nhon Bui Van, Long Vo Hoang, Toan Pham Duc, Thu Tran Thi Ha, Viet Tran Tuan, Phong Phan Dinh, Huong Trinh Thi Thu, **Pau Loke Show**, Vu Thi Nga\*, Dinh-Toi Chu\*. (2020). "Hypertension in a mountainous province of Vietnam: prevalence and risk factors" *Heliyon*, 6(2), e03383. [Accepted 4 February 2020; IF: 1.650 (2018)]
576. Guo Yong Yew, Thing Chai Tham, **Pau-Loke Show\***, Yeek-Chia Ho, Siew Kooi Ong, Chung Lim Law, Changnian Song, Jo-Shu Chang\*. (2020). "Unlocking the Secret of Bio-additive

- Components in Rubber Compounding in Processing Quality Nitrile Glove" Applied biochemistry and biotechnology, 1-28. [Accepted 5 December 2019; IF: 2.140(2018)]
577. Apurav Krishna Koyande, Kit Wayne Chew, Jun-Wei Lim, Man-Kee Lam, Yeek-Chia Ho, **Pau Loke Show**\*. (2020). "Biorefinery of *Chlorella sorokiniana* using ultrasonication assisted Liquid Tri-phasic Flotation System" *Bioresource Technology*, 122931. [Accepted 27 January 2020; IF: 6.669 (2018)]
578. Nor-Insyirah Syahira Abdul-Latif, Mei Yin Ong, Saifuddin Nomanbhay\*, Bello Salman, **Pau Loke Show**. (2020). "Estimation of carbon dioxide (CO<sub>2</sub>) reduction by utilization of algal biomass bioplastic in Malaysia using carbon emission pinch analysis (CEPA)" *Bioengineered*, 11(1), 154-164. [Accepted 14 Jan 2020; IF: 1.544(2018)]
579. Seyedeh-Masoumeh Taghizadeh, Aydin Berenjian, Kit Wayne Chew, **Pau Loke Show**\*, Hayyiratul Fatimah Mohd Zaid, Hamidreza Ramezani, Younes Ghasemi, Mohammad Javad Raei, Alireza Ebrahiminezhad\*. (2020). "Impact of magnetic immobilization on the cell physiology of green unicellular algae *Chlorella vulgaris*" *Bioengineered*, 11(1), 141-153. [Accepted 06 Jan 2020; IF: 1.544(2018)]
580. Kuan Shiong Khoo, Wen Yi Chia, Doris Ying Ying Tang, **Pau Loke Show**, Kit Wayne Chew, and Wei-Hsin Chen\*. (2020). "Nanomaterials Utilization in Biomass for Biofuel and Bioenergy Production" *Energies*, 13, 892. [Accepted 11 February 2020; IF: 2.707 (2018)]
581. Hwai Chyuan Ong, Wei-Hsin Chen\*, Yashvir Singh, Yong Yang Gan, Chia-Yang Chen, **Pau Loke Show**. (2020). "A state-of-the-art review on thermochemical conversion of biomass for biofuel production: A TG-FTIR approach" *Energy Conversion and Management*, 209, 112634. [Accepted 20 February 2020; IF: 7.181(2018)]
582. Pei San Kong\*, Yolande Pérès, Patrick Cognet, François Senocq, Wan Mohd Ashri Wan Daud, Mohamed Kheireddine Aroua\*, Haniza Ahmad, Revathy Sankaran, **Pau Loke Show**. (2020). "Structure-selectivity relationship of a zirconia-based heterogeneous acid catalyst in the production of green mono-and dioleate product" *Clean Technologies and Environmental Policy*, 1-11. [Accepted 26 February 2020; IF: 2.277(2018)]
583. Kuan Shiong Khoo, Kit Wayne Chew, Guo Yong Yew, Sivakumar Manickam, Chien Wei Ooi, **Pau Loke Show**\*. (2020). "Integrated ultrasonic assisted liquid biphasic flotation for efficient extraction of astaxanthin from *Haematococcus pluvialis*" *Ultrasonics Sonochemistry*, 105052. [Accepted 1 March 2020; IF: 7.279(2018)]
584. Siong Chin Chua, Fai Kait Chong, Muhammad Raza Ul Mustafa, Shamsul Rahman Mohamed Kutty, Wawan Sujarwo, Marlinda Abdul Malek, **Pau Loke Show**, Yeek Chia Ho\*. (2020). "Microwave radiation-induced grafting of 2-methacryloyloxyethyl trimethyl ammonium chloride onto lentil extract (LE-g-DMC) as an emerging high-performance plant-based grafted coagulant" *Scientific Reports*, 10(1), 1-13. [Accepted 04 February 2020; IF: 4.011 (2018)]
585. Xuefei Tan, Shishu Zhu, **Pau Loke Show**, Haiqun Qi, Shih-Hsin Ho\*. (2020). "Sorption of ionized dyes on high-salinity microalgal residue derived biochar: Electron acceptor-donor and metal-organic bridging mechanisms" *Journal of Hazardous Materials*, 122435. [Accepted 29 February 2020; IF: 7.650(2018)]
586. Wenying Qu, **Pau Loke Show**, Tomohisa Hasunuma, Shih-Hsin Ho\*. (2020). "Optimizing real swine wastewater treatment efficiency and carbohydrate productivity of newly microalga *Chlamydomonas* sp. QWY37 used for cell-displayed bioethanol production" *Bioresource Technology*, 123072. [Accepted 20 February 2020; IF: 6.669 (2018)]
587. Linshu Jiao, Huibing Chi, Zhaoxin Lu, Chong Zhang, Shir Reen Chia, **Pau Loke Show**, Yang Tao, Fengxia Lu\*. (2020). "Characterization of a novel type I l-asparaginase from *Acinetobacter soli* and its ability to inhibit acrylamide formation in potato chips" *Journal of Bioscience and Bioengineering*. [Accepted 26 January 2020; IF: 2.032(2018)]

588. Aristotle T Ubando, Wei-Hsin Chen\*, **Pau-Loke Show**, Hwai Chyuan Ong. (2020). "Kinetic and thermodynamic analysis of iron oxide reduction by graphite for CO<sub>2</sub> mitigation in chemical-looping combustion" *International Journal of Energy Research*. [Accepted 5 January 2020; IF: 3.343(2018)]
589. Hui Shi Saw, Revathy Sankaran, Kuan Shiong Khoo, Kit Wayne Chew\*, Win Nee Phong, Malcolm SY Tang, Siew Shee Lim\*, Hayyiratul Fatimah Mohd Zaid, Mu Naushad, **Pau Loke Show\***. (2020). "Application of a Liquid Biphase Flotation (LBF) System for Protein Extraction from *Persicaria Tenulla* Leaf" *Processes*, 8(2), 247. [Accepted 17 February 2020; IF: 2.973(2018)]
590. Chung Yiin Wong, Muhammad Naeim Mohd Aris, Hanita Daud, Man Kee Lam, Ching Seong Yong, Hadura Abu Hasan, Siewhui Chong, **Pau Loke Show**, Oetami Dwi Hajoeningtijas, Yeek Chia Ho, Pei Sean Goh, Husnul Kausarian, Guan-Ting Pan, Jun Wei Lim\*. (2020). "In-Situ Yeast Fermentation to Enhance Bioconversion of Coconut Endosperm Waste into Larval Biomass of *Hermetia illucens* Statistical Augmentation of Larval Lipid Content" *Sustainability*, 12(4), 1558. [Accepted 8 January 2020; IF: 2.592 (2018)]
591. Thanh Tien Nguyen, Man Kee Lam\*, Yoshimitsu Uemura, Nurlidia Mansor, Jun Wei Lim, **Pau Loke Show**, Inn Shi Tan, Steven Lim. (2020). "High biodiesel yield from wet microalgae paste via in-situ transesterification: Effect of reaction parameters towards the selectivity of fatty acid esters" *Fuel*, 272, 117718. [Accepted 25 March 2020; IF: 5.128 (2018)]
592. Man Huan Su, Elfina Azwar, YaFeng Ya, Christian Sonne, Peter Nai Yuh Yek, Rock Kee Y Liew, Chin Kui Cheng, **Pau Loke Show**, Su Shiung Lam\*. (2020). "Simultaneous removal of toxic ammonia and lettuce cultivation in aquaponic system using microwave pyrolysis biochar" *Journal of Hazardous Materials*, 122610. [Accepted 27 March 2020; IF: 7.650(2018)]
593. **Pau Loke Show**, Kit Wayne Chew, Jo-Shu Chang\*. (2020). "Special issue on algae bioprocess engineering" *Bioengineered*. 11(1), 188. [Accepted 20 Feb 2020; IF: 1.544(2018)]
594. Pei En Tham, Yan Jer Ng, Revathy Sankaran, Kuan Shiong Khoo, Kit Wayne Chew\*, Yee Jiun Yap, Masnindah Malahubban, Fitri Abdul Aziz Zakry, **Pau Loke Show\***. (2020). "Correction: Tham, PE, et al. Recovery of Protein from Dairy Milk Waste Product Using Alcohol-Salt Liquid Biphase Flotation. *Processes* 2019, 7, 875" *Processes*, 8(4), 381. [Accepted 16 March 2020; IF: 1.963(2018)]
595. Angela P Peter, Chew Kit Wayne, **Pau Loke Show\***, Tau Chuan Ling\*. (2020). "Potential Pathway that Could Treat Coronaviruses (COVID-19)" *Current Biochemical Engineering*, 6(1), 3-4. [Accepted 1 April 2020]
596. **Pau L Show\***. (2020). "Meet the Associate Editor" *Current Biochemical Engineering*, 6(1), 2-2. [Accepted 1 April 2020]
597. K Rambabu, Fawzi Banat, Quan Minh Pham, Shih-Hsin Ho, Nan-qi Ren, **Pau Loke Show\***. (2020). "Biological Remediation of Acid Mine Drainage: Review of Past Trends and Current Outlook" *Environmental Science and Ecotechnology*, 100024. [Accepted 18 March 2020]
598. Zhia Lerc Poh, Wan Nadiah Amalina Kadir, Man Kee Lam\*, Yoshimitsu Uemura, Uganeeswary Suparmaniam, Jun Wei Lim, **Pau Loke Show**, Keat Tong Lee. (2020). "The effect of stress environment towards lipid accumulation in microalgae after harvesting" *Renewable Energy*, 154, 1083-1091. [Accepted 14 March 2020; IF 5.439 (2018)]
599. Shir Reen Chia, Shan Ping Foo, Yoong Shern Hew, Yuh Juann Loh, Vishno Vardhan Devadas, Kit Wayne Chew\*, **Pau Loke Show\***. (2020). "Extraction of Phenolic Compounds from Fresh and Wilt Kesum Plant using Liquid Biphase Flotation" *Separation and Purification Technology*, 116831. [Accepted 7 March 2020; IF: 5.107 (2018)]
600. Chung Yiin Wong, Yeek Chia Ho, Jun Wei Lim\*, **Pau Loke Show**, Siewhui Chong, Yi Jing Chan, Chii Dong Ho\*, Mardawani Mohamad, Ta Yeong Wu, Man Kee Lam, Guan Ting Pan. (2020). "In-Situ Yeast Fermentation Medium in Fortifying Protein and Lipid Accumulations in the

- Harvested Larval Biomass of Black Soldier Fly" Processes, 8(3), 337. [Accepted 7 February 2020; IF: 1.963(2018)]
601. Wai Yan Cheah, Revathy Sankaran, **Pau Loke Show\***, Tg Ibrahim, Tg Nilam Baizura, Kit Wayne Chew, Alvin Culaba, Jo-Shu Chang\*. (2020). "Pretreatment methods for lignocellulosic biofuels production: current advances, challenges and prospects" *Biofuel Research Journal*, 7(1), 1115-1127. [Accepted 26 January 2020]
  602. Saifuddin Nomanbhay, Mei Yin Ong, Kit Wayne Chew, **Pau-Loke Show**, Man Kee Lam, Wei-Hsin Chen\*. (2020). "Organic Carbonate Production Utilizing Crude Glycerol Derived as By-Product of Biodiesel Production: A Review" *Energies*, 13(6), 1483. [Accepted 20 March 2020; IF: 2.707 (2018)]
  603. G Bharath\*, K Rambabu, Abdul Hai, Fawzi Banat\*, Hanifa Taher, Jens Ejbye Schmidt, **Pau Loke Show**. (2020). "Catalytic hydrodeoxygenation of biomass-derived pyrolysis oil over alloyed bimetallic Ni<sub>3</sub>Fe nanocatalyst for high-grade biofuel production" *Energy Conversion and Management*, 213, 112859. [Accepted 13 April 2020; IF:7.181(2018)]
  604. **Pau Loke Show\***, Suchithra Thangalazhy-Gopakumar, Dominic CY Foo. (2020). "Special Issue "Green Technologies: Bridging Conventional Practices and Industry 4.0" Processes, 8(5), 552. [Accepted 28 April 2020; IF: 1.963(2018)]
  605. Sabrina Hasnol, Kunlanan Kiatkittipong\*, Worapon Kiatkittipong, Chung Yiin Wong, Cheng Seong Khe, Man Kee Lam, **Pau Loke Show**, Wen Da Oh, Thiam Leng Chew, Jun Wei Lim\*. (2020). "A Review on Insights for Green Production of Unconventional Protein and Energy Sources Derived from the Larval Biomass of Black Soldier Fly" Processes, 8(5), 523. [Accepted 20 February 2020; IF: 1.963(2018)]
  606. Kai Ling Yu, Wei-Hsin Chen\*, Hengng-Kuang Sheen, Jo-Shu Chang, Chih-Sheng Lin, Hwai Chyuan Ong\*, **Pau Loke Show**, Eng-Poh Ng, Tau Chuan Ling. (2020). "Production of microalgal biochar and reducing sugar using wet torrefaction with microwave-assisted heating and acid hydrolysis pretreatment" *Renewable Energy*, 156, 349-360. [Accepted 10 April 2020; IF 5.439 (2018)]
  607. KS Khoo, X Tan\*, **PL Show\***, P Pal, JC Juan, TC Ling, S-H Ho, THP Nguyen\*. (2020). "Treatment for Landfill Leachate via Physicochemical Approaches: An Overview" *Chemical and Biochemical Engineering Quarterly*, 34(1), 1-24. [Accepted 31 March 2020; IF 0.859 (2018)]
  608. Bui Van N, Bui Van T, HNS Anh, HT Minh, K Do Nam, TN Tri, **PL Show**, VT Nga\*, Thimiri Govinda Raj DB, DT Chu\*. (2020). "Correction to Prevalence and Risk Factors of Hypertension in the Vietnamese Elderly." *High Blood Pressure & Cardiovascular Prevention*, 27(2), 175. [Accepted 30 March 2020]
  609. Heli Siti Halimatul Munawaroh, Gun Gun Gumilar, Fina Nurjanah, Galuh Yuliani, Siti Aisyah, Dewi Kurnia, Asri Peni Wulandari, Isman Kurniawan, Andriati Ningrum, Apurav Krishna Koyandev, **Pau-Loke Show\***. (2020). "In-vitro molecular docking analysis of microalgae extracted phycocyanin as an anti-diabetic candidate" *Biochemical Engineering Journal*, 107666. [Accepted 31 May 2020; IF: 3.371 (2018)]
  610. Dang Thuan Tran, Hai Yen Nguyen, Thi Cam Van Do, **Pau Loke Show**, Truong Giang Le\*. (2020). "Factors Affecting Pollutants Removal and Biomass Production Capability of *Chlorella variabilis* TH03 in Domestic Wastewater" *Materials Science for Energy Technologies*. [Accepted 24 May 2020]
  611. Siti Suhailah Rosli, Chung Yiin Wong, Normawati Mohd Yunus, Man Kee Lam, **Pau Loke Show**, Chin Kui Cheng, David K Wang, Wen Da Oh, Jun Wei Lim\*. (2020). "Optimum interaction of light intensity and CO<sub>2</sub> concentration in bioremediating N-rich real wastewater via assimilation into attached microalgal biomass as the feedstock for biodiesel production" *Process Safety and Environmental Protection*. [Accepted 29 May 2020; IF: 4.384(2018)]

612. K Rambabu\*, G Bharath, Fawzi Banat\*, **Pau Loke Show\***. (2020). "Biosorption performance of date palm empty fruit bunch wastes for toxic hexavalent chromium removal" *Environmental Research*, 187, 109694. [Accepted 18 May 2020; IF: 5.026(2018)]
613. Shir Reen Chia, Kit Wayne Chew, Hui Yi Leong, Sivakumar Manickam, **Pau Loke Show\***, The Hong Phong Nguyen. (2020). "Sonoprocessing-assisted solvent extraction for the recovery of pigment-protein complex from *Spirulina platensis*" *Chemical Engineering Journal*, 398, 125613. [Accepted 21 May 2020; IF: 8.355 (2018)]
614. Wan Adibah Wan Mahari, Wai Lun Nam, Christian Sonne, Wanxi Peng, Xue Yee Phang, Rock Keey Liew, Peter Nai Yuh Yek, Xie Yi Lee, Ou Wei Wen, **Pau Loke Show**, Wei-Hsin Chen, Jo-Shu Chang, Su Shiung Lam\*. (2020). "Applying microwave vacuum pyrolysis to design moisture retention and pH neutralizing palm kernel shell biochar for mushroom production" *Bioresource Technology*, 123572. [Accepted 21 May 2020; IF: 6.669 (2018)]
615. Xiaobo Guo, Chihe Sun, Richen Lin, Ao Xia\*, Yun Huang, Xianqing Zhu, **Pau-Loke Show**, Jerry D Murphy. (2020). "Effects of foam nickel supplementation on anaerobic digestion: direct interspecies electron transfer" *Journal of Hazardous Materials*, 122830. [Accepted 24 April 2020; IF: 7.650(2018)]
616. Bing-Lan Liu, Chien Wei Ooi, I-Son Ng, **Pau Loke Show**, Kai-Jie Lin, Yu-Kaung Chang\*. (2020). "Effective purification of lysozyme from chicken egg white by tris (hydroxymethyl) aminomethane affinity nanofiber membrane" *Food Chemistry*, 127038. [Accepted 10 May 2020; IF: 5.399(2018)]
617. Heli Siti Halimatul Munawaroh, Gun Gun Gumilar, Chindiar Rizka Alifia, Meganita Marthania, Bianca Stellasary, Galuh Yuliani, Asri Peni Wulandari, Isman Kurniawan, Rahmat Hidayat, Andriati Ningrum, Apurav Krishna Koyande, **Pau-Loke Show\***. (2020). "Photostabilization of Phycocyanin from *Spirulina platensis* modified by Formaldehyde" *Process Biochemistry*, 94, 297-304. [Accepted 15 April 2020; IF: 2.883(2018)]
618. Mehmooda Fayyaz, Kit Wayne Chew, **Pau Loke Show\***, Tau Chuan Ling, I-Son Ng, Jo-Shu Chang\*. (2020). "Genetic engineering of microalgae for enhanced biorefinery capabilities" *Biotechnology Advances*, 43, 107554. [Accepted 6 May 2020; IF: 12.831(2018)]
619. Teik-Hun Ang, Kunlanan Kiatkittipong\*, Worapon Kiatkittipong, Siong-Chin Chua, Jun Wei Lim, **Pau-Loke Show**, Mohammed JK Bashir, Yeek-Chia Ho\*. (2020). "Insight on Extraction and Characterisation of Biopolymers as the Green Coagulants for Microalgae Harvesting" *Water*, 12(5), 1388. [Accepted 15 April 2020; IF: 2.524(2018)]
620. Kunlanan Kiatkittipong, Muhammad Amirul Amin Mohamad Shukri, Worapon Kiatkittipong\*, Jun Wei Lim, **Pau Loke Show**, Man Kee Lam, Suttichai Assabumrungrat. (2020). "Green Pathway in Utilizing CO<sub>2</sub> via Cycloaddition Reaction with Epoxide—A Mini Review" *Processes*, 8(5), 548. [Accepted 28 April 2020; IF: 1.963(2018)]
621. Kai Ling Yu, Wei-Hsin Chen\*, Heng-Kuang Sheen, Jo-Shu Chang, Chih-Sheng Lin, Hwai Chyuan Ong\*, **Pau Loke Show**, Tau Chuan Ling. (2020). "Bioethanol production from acid pretreated microalgal hydrolysate using microwave-assisted heating wet torrefaction" *Fuel*, 279, 118435. [Accepted 15 June 2020; IF: 5.578(2019)]
622. Yaleeni Kanna Dasan, Man Kee Lam\*, Suzana Yusup, Jun Wei Lim, **Pau Loke Show**, Inn Shi Tan, Keat Teong Lee. (2020). "Cultivation of *Chlorella vulgaris* using sequential-flow bubble column photobioreactor: A stress-inducing strategy for lipid accumulation and carbon dioxide fixation" *Journal of CO<sub>2</sub> Utilization*, 41, 101226. [Accepted 20 June 2020; IF: 5.993(2019)]
623. Omar Ashraf ElFar, Chih-Kai Chang, Hui Yi Leong, Angela Paul Ap Peter, Kit Wayne Chew, **Pau Loke Show\***. (2020). "Prospects of Industry 5.0 in algae: Customization of production and new advance technology for clean bioenergy generation" *Energy Conversion and Management*: X, 100048. [Accepted 24 June 2020]

624. Abdul Hai, G Bharath, K Rambabu\*, Pravin Kannan, Fawzi Banat\*, Hanifa Taher, Raja Jayaraman, **Pau Loke Show**. (2020). "Pyrolysis of different date palm industrial wastes into high-quality bio-oils: A comparative study" *Clean Technologies and Environmental Policy*, 1-10. [Accepted 21 June 2020; IF: 2.429(2019)]
625. Bing-Lan Liu, Wai Siong Chai, **Pau Loke Show**, Jia-Yi Chen, Yu-Kaung Chang\*. (2020). "Evaluation of dynamic binding performance of C-phycoerythrin and allophycocyanin in *Spirulina platensis* algae by aminated polyacrylonitrile nanofiber membrane" *Biochemical Engineering Journal*, 107686. [Accepted 14 June 2020; IF: 3.475(2019)]
626. Yu Zhang, Libang Zhou, Chong Zhang\*, **Pau Loke Show**, Anning Du, JingChao Fu, Veeramuthu Ashokkumar. (2020). "Preparation and characterization of curdlan/polyvinyl alcohol/thyme essential oil blending film and its application to chilled meat preservation" *Carbohydrate Polymers*, 116670. [Accepted 18 June 2020; IF: 7.182(2019)]
627. Xuan Dong Bui, Cong Tuan Vo, Viet Cuong Bui, Thi My Pham, Thi Thu Hien Bui, Toan Nguyen-Sy, Thi Dong Phuong Nguyen\*, Kit Wayne Chew\*, MD Mukatova, **Pau Loke Show\***. (2020). "Optimization of production parameters of fish protein hydrolysate from *Sarda Orientalis* black muscle (by-product) using protease enzyme" *Clean Technologies and Environmental Policy*, 1-10. [Accepted 26 May 2020; IF: 2.429(2019)]
628. Wan Adibah Wan Mahari, Wanxi Peng, Wai Lun Nam, Han Yang, Xie Yi Lee, Yik Kin Lee, Rock Keey Liew, Nyuk Ling Ma, Aqilah Mohammad, Christian Sonne, Quyet Van Le, **Pau Loke Show**, Wei-Hsin Chen, Su Shiung Lam\*. (2020). "A review on valorization of oyster mushroom and waste generated in the mushroom cultivation industry" *Journal of Hazardous Materials*, 400, 123156. [Accepted 5 June 2020; IF: 9.038(2019)]
629. Sze Yin Cheng, **Pau-Loke Show\***, Joon Ching Juan\*, Tau Chuan Ling\*, Beng Fye Lau, Sai Hin Lai, Eng Poh Ng. (2020). "Sustainable landfill leachate treatment: Optimize use of guar gum as a natural coagulant and floc characterization" *Environmental Research*, 109737. [Accepted 17 May 2020; IF: 5.715(2019)]
630. Heli Siti Halimatul Munawaroh, Gun Gun Gumilar, Fina Nurjanah, Galuh Yuliani, Siti Aisyah, Dewi Kurnia, Asri Peni Wulandari, Isman Kurniawan, Andriati Ningrum, Apurav Krishna Koyandev, **Pau-Loke Show\***. (2020). "In-vitro molecular docking analysis of microalgae extracted phycoerythrin as an anti-diabetic candidate" *Biochemical Engineering Journal*, 107666. [Accepted 31 May 2020; IF: 3.475(2019)]
631. Nurul Syahirah Mat Aron, Kuan Shiong Khoo, Kit Wayne Chew, **Pau Loke Show\***, Wei-Hsin Chen\*, The Hong Phong Nguyen\*. (2020). "Sustainability of the four generations of biofuels–A review" *International Journal of Energy Research*. [Accepted 28 April 2020; IF: 3.741(2019)]
632. **Pau Loke Show**, Chien Wei Ooi, Xin Jiat Lee, Chi-Lin Yang, Bing-Lan Liu\*, Yu-Kaung Chang\*. (2020). "Batch and dynamic adsorption of lysozyme from chicken egg white on dye-affinity nanofiber membranes modified by ethylene diamine and chitosan" *International Journal of Biological Macromolecules*. [Accepted 7 August 2020; IF: 5.162(2019)]
633. H Hernández-Cocoletzi\*, Rafael A Salinas, E Águila-Almanza, E Rubio-Rosas, Wai Siong Chai, Kit Wayne Chew, C Mariscal-Hernández, **Pau Loke Show\***. (2020). "Natural hydroxyapatite from fishbone waste for the rapid adsorption of heavy metals of aqueous effluent" *Environmental Technology & Innovation*, 101109. [Accepted 11 August 2020; IF: 3.356(2019)]
634. Doris Ying Ying Tang, Guo Yong Yew, Apurav Krishna Koyande, Kit Wayne Chew, Dai-Viet N Vo, **Pau Loke Show\***. (2020). "Green technology for the industrial production of biofuels and bioproducts from microalgae: a review" *Environmental Chemistry Letters*, 1-19. [Accepted 7 August 2020; IF: 5.922(2019)]
635. Sze Yin Cheng, **Pau-Loke Show\***, Joon Ching Juan\*, Jo-Shu Chang, Beng Fye Lau, Sai Hin Lai, Eng Poh Ng, Haw Choon Yian, Tau Chuan Ling\*. (2020). "Landfill Leachate Wastewater

- Treatment to Facilitate Resource Recovery by a Coagulation-Flocculation Process via Hydrogen Bond" *Chemosphere*, 127829. [Accepted 24 July 2020; IF: 5.778(2019)]
636. Toan Nguyen-Sy, Guo Yong Yew, Kit Wayne Chew, Thi Dong Phuong Nguyen\*, Thi Ngoc Thu Tran, Thi Dieu Huong Le, Chau Tuan Vo, Hoang Kim Pham Tran, Muhammad Mubashir\*, **Pau Loke Show\***. (2020). "Potential Cultivation of *Lactobacillus pentosus* from Human Breastmilk with Rapid Monitoring through the Spectrophotometer Method" *Processes*, 8(8), 902. [Accepted 15 July 2020; IF: 2.753(2019)]
637. Kuan Shiong Khoo, Yen Mun Chong, Wen Sing Chang, Jie Min Yap, Ianatul Khoiroh, Phei Li Lau, Chien Wei Ooi\*, **Pau Loke Show\***. (2020). "Sustainable separation of lutein from natural coagulant harvested *Chlorella Tioman* microalgae" *Separation and Purification Technology*, 117471. [Accepted 26 July 2020; IF: 5.774(2019)]
638. K Rambabu, G Bharath, Fawzi Banat, **Pau Loke Show\***. (2020). "Green synthesis of zinc oxide nanoparticles using *Phoenix dactylifera* waste as bioreductant for effective dye degradation and antibacterial performance in wastewater treatment" *Journal of Hazardous Materials*, 123560. [Accepted 21 July 2020; IF: 9.038(2019)]
639. Su Shiung Lam, Kit Wayne Chew, **Pau Loke Show**, Nyuk Ling Ma, Yong Sik Ok, Wanxi Peng, Aage KO Alstrup, Douglas H Adams, Jörg Rinklebe, Christian Sonne\*. (2020). "Environmental management of two of the world's most endangered marine and terrestrial predators: vaquita and cheetah" *Environmental Research*, 109966. [Accepted 16 July 2020; IF: 5.715(2019)]
640. Roza Najjar-Tabrizi, Afshin Javadi, Anousheh Sharifan, Kit Wayne Chew, Chyi-How Lay, **Pau Loke Show\***, Hoda Jafarizadeh-Malmiri\*, Aydin Berenjian\*. (2020). "Hydrothermally extraction of saponin from *Acanthophyllum glandulosum* root-Physico-chemical characteristics and antibacterial activity evaluation" *Biotechnology Reports*, e00507. [Accepted 18 July 2020]
641. Chung Hong Tan, Xuefei Tan, Shih-Hsin Ho, Su Shiung Lam, **Pau Loke Show\***, The Hong Phong Nguyen\*. (2020). "Conceptual design of a hybrid thin layer cascade photobioreactor for microalgal biodiesel synthesis" *International Journal of Energy Research*. [Accepted 8 June 2020; IF: 3.741(2019)]
642. Guo Yong Yew, Boon Keat Puah, Kit Wayne Chew, Sin Yong Teng, **Pau Loke Show\***, The Hong Phong Nguyen\*. (2020). "*Chlorella vulgaris* FSP-E cultivation in waste molasses: Photo-to-property estimation by artificial intelligence" *Chemical Engineering Journal*, 126230. [Accepted 7 July 2020; IF: 10.652(2019)]
643. Sze Yin Cheng, Xuefei Tan, **Pau Loke Show\***, K Rambabu, Fawzi Banat, Ashokkumar Veeramuthu, Beng Fye Lau, Eng Poh Ng, Tau Chuan Ling. (2020). "Incorporating biowaste into circular bioeconomy: A critical review of current trend and scaling up feasibility" *Environmental Technology & Innovation*, 101034. [Accepted 8 July 2020; IF: 3.356(2019)]
644. Nguyen Duc Huy\*, Dang Thi Thanh Ha, Kuan Shiong Khoo, Pham Thi Ngoc Lan, Hoang Tan Quang, Nguyen Hoang Loc, Seung-Moon Park, Ashokkumar Veeramuthu, **Pau Loke Show\***. (2020). "Synthetic dyes removal by *Fusarium oxysporum* HUIB02 and stimulation effect on laccase accumulation" *Environmental Technology & Innovation*, 101027. [Accepted 1 July 2020; IF: 3.356(2019)]
645. Emmanuel Arriola, Wei-Hsin Chen\*, Yi-Kai Chih, Mark Daniel De Luna, **Pau Loke Show**. (2020). "Impact of post-torrefaction process on biochar formation from wood pellets and self-heating phenomena for production safety" *Energy*, 118324. [Accepted 5 July 2020; IF: 6.082(2019)]
646. K Rambabu, G Bharath, Fawzi Banat, Abdul Hai, **Pau Loke Show\***, The Hong Phong Nguyen. (2020). "Ferric oxide/date seed activated carbon nanocomposites mediated dark fermentation of date fruit wastes for enriched biohydrogen production" *International Journal of Hydrogen Energy*. [Accepted 11 June 2020; IF: 4.939(2019)]

647. Ying Zhou, Xiaoyu Zhu, Chong Zhang\*, Wai Siong Chai, Kit Wayne Chew, Anning Du, **Pau Loke Show\***. (2020). "Characterization of whey protein isolate and pectin composite film catalyzed by small laccase from *Streptomyces coelicolor*" *Environmental Technology & Innovation*, 100999. [Accepted 13 June 2020; IF: 3.356(2019)]
648. Nandhini Sureshkumar, Samiha Bhat, Shwetha Srinivasan, Nirmala Gnanasundaram\*, Murugesan Thanapalan, Rambabu Krishnamoorthy, Hatem Abuhimd, Faheem Ahmed, **Pau Loke Show**. (2020). "Continuous Phenol Removal Using a Liquid-Solid Circulating Fluidized Bed" *Energies*, 13(15), 3839. [Accepted 24 July 2020; IF: 2.702(2019)]
649. Chung Hong Tan, **Pau Loke Show\***. (2020). "Integration of semi-batch cultivation and extraction for maximal lipid production in *Chlamydomonas* sp. Tai-03" *E&ES*, 463(1), 012101.
650. Sonia How Ming Wong, Siew Shee Lim\*, Timm Joyce Tiong, **Pau Loke Show**, Hayyiratul Fatimah Mohd Zaid, Hwei-San Loh\*. (2020). "Preliminary In Vitro Evaluation of Chitosan-Graphene Oxide Scaffolds on Osteoblastic Adhesion, Proliferation, and Early Differentiation" *International Journal of Molecular Sciences*, 21(15), 5202. [Accepted 9 April 2020; IF: 4.556(2019)]
651. Siong-Chin Chua, **Pau Loke Show**, Fai-Kait Chong, Yeek-Chia Ho\*. (2020). "Lentil waste as novel natural coagulant for agricultural wastewater treatment" *Water Science and Technology*. [Accepted 27 August 2020; IF: 1.638(2019)]
652. Guo Yong Yew, Kuan Shiong Khoo, Wen Yi Chia, Yeek-Chia Ho, Chung Lim Law, Hui Yi Leong, **Pau Loke Show\***. (2020). "A novel lipids recovery strategy for biofuels generation on microalgae *Chlorella* cultivation with waste molasses" *Journal of Water Process Engineering*, 38, 101665. [Accepted 8 September 2020; IF: 3.465(2019)]
653. Jane-Yii Wu, Chyi-How Lay\*, Meng-Choung Chiong, Kit Wayne Chew, Chin-Chao Chen, Shin-Yan Wu, Dandan Zhou, Gopalakrishnan Kumar, **Pau Loke Show**. (2020). "Immobilized *Chlorella* species mixotrophic cultivation at various textile wastewater concentrations" 38, 101609. [Accepted 8 August 2020; IF: 3.465(2019)]
654. Wen Yi Chia, Yen Yee Chong, Kit Wayne Chew\*, Elamathi Vimali, Moorthy Jayaram, Anurita Selvarajoo, Kirupa Sankar Muthuvelu, Perumal Varalakshmi, **Pau Loke Show**, Senthil Kumar Arumugasamy\*. (2020). "Outlook on biorefinery potential of palm oil mill effluent for resource recovery" *Journal of Environmental Chemical Engineering*, 104519. [Accepted 16 September 2020; IF: 4.300(2019)]
655. Aaronn Avit Ajeng, Rosazlin Abdullah\*, Tau Chuan Ling, Salmah Ismail, Beng Fye Lau, Hwai Chyuan Ong, Kit Wayne Chew, **Pau Loke Show**, Jo-Shu Chang\*. (2020). "Bioformulation of biochar as a potential inoculant carrier for sustainable agriculture" *Environmental Technology & Innovation*, 101168. [Accepted 15 September 2020; IF: 3.356(2019)]
656. Wen Yi Chia, Kit Wayne Chew, Cheng Foh Le, Su Shiung Lam, Chelsea Siew Chyi Chee, Mae See Luan Ooi, **Pau Loke Show\***. (2020). "Sustainable Utilization of Biowaste Compost for Renewable Energy and Soil Amendments" *Environmental Pollution*, 115662. [Accepted 12 September 2020; IF: 6.792(2019)]
657. K Rambabu\*, G Bharath, Abdul Fahim Arangadi, S Velu, Fawzi Banat\*, **Pau Loke Show\***. (2020). "ZrO<sub>2</sub> incorporated polysulfone anion exchange membranes for fuel cell applications" *International Journal of Hydrogen Energy*. [Accepted 19 August 2020; IF: 4.939(2019)]
658. Sin Yong Teng, Guo Yong Yew, Kateřina Sukačová, **Pau Loke Show\***, Vítězslav Máša\*, Jo-Shu Chang. (2020). "Microalgae with artificial intelligence: A digitalized perspective on genetics, systems and products" *Biotechnology Advances*, 107631. [Accepted 8 September 2020; IF: 10.744(2019)]
659. K Rambabu, Anjali Achazhiyath Edathil, GS Nirmala, Shadi W Hasan, Ahmed F Yousef, **Pau Loke Show**, Fawzi Banat\*. (2020). "Date-fruit syrup waste extract as a natural additive for soap

- production with enhanced antioxidant and antibacterial activity" *Environmental Technology & Innovation*, 101153. [Accepted 8 September 2020; IF: 3.356(2019)]
660. Sze Ying Lee\*, Ianatul Khoiroh, Dai-Viet N Vo, P Senthil Kumar, **Pau Loke Show**. (2020). "Techniques of lipid extraction from microalgae for biofuel production: a review" *Environmental Chemistry Letters*, 1-21. [Accepted 27 August 2020; IF: 5.922(2019)]
661. Dinh Thi My Huong, Wai Siong Chai, **Pau Loke Show**, Yu-Ling Lin, Chen-Yaw Chiu, Shen-Long Tsai\*, Yu-Kaung Chang\*. (2020). "Removal of cationic dye waste by nanofiber membrane immobilized with waste proteins" *International Journal of Biological Macromolecules*. [Accepted 3 September 2020; IF: 5.162(2019)]
662. Amir Izzuddin Adnan, Mei Yin Ong, Saifuddin Nomanbhay\*, **Pau Loke Show**. (2020). "Determination of Dissolved CO<sub>2</sub> Concentration in Culture Media: Evaluation of pH Value and Mathematical Data" *Processes*, 8(11), 1373. [Accepted 26 October 2020; IF: 2.753(2019)]
663. B. Senthil Rathi, P. Senthil Kumar\*, **Pau Loke Show**. (2020). "A Review on Effective Removal of Emerging Contaminants from Aquatic Systems: Current Trends and Scope for Further Research" *Journal of Hazardous Materials*, 124413. [Accepted 24 October 2020; IF: 9.038(2019)]
664. K Rambabu\*, A Thanigaivelan, G Bharath, N Sivarajasekar, Fawzi Banat\*, **Pau Loke Show\***. (2020). "Biosorption potential of Phoenix dactylifera coir wastes for toxic hexavalent chromium sequestration" *Chemosphere*, 128809. [Accepted 26 October 2020; IF: 5.778(2019)]
665. Devaraj Thiruselvi, Ponnusamy Senthil Kumar\*, Madhava Anil Kumar, Chyi-How Lay, Salma Aathika, Yuvarani Mani, D Jagadiswary, Anuradha Dhanasekaran, Palaniyandi Shanmugam, Subramanian Sivanesan\*, **Pau-Loke Show\***. (2020). "A critical review on global trends in biogas scenario with its up-gradation techniques for fuel cell and future perspectives" *International Journal of Hydrogen Energy*. [Accepted 4 October 2020; IF: 4.939(2019)]
666. Harshini Pakalapati, **Pau Loke Show**, Jen-Hong Chang, Bing-Lan Liu\*, Yu-Kaung Chang\*. (2020). "Removal of dye waste by weak cation-exchange nanofiber membrane immobilized with waste egg white proteins" *International Journal of Biological Macromolecules*, 165, 2494-2507. [Accepted 13 October 2020; IF: 5.162(2019)]
667. Nurul Syahirah Mat Aron, Kuan Shiong Khoo, Kit Wayne Chew, Ashokkumar Veeramuthu, Jo-Shu Chang, **Pau Loke Show\***. (2020). "Microalgae cultivation in wastewater and potential processing strategies using solvent and membrane separation technologies" *Journal of Water Process Engineering*, 101701. [Accepted 19 September 2020; IF: 3.465(2019)]
668. Rekha Pachaiappan\*, Saravanan Rajendran\*, **Pau Loke Show\***, Kovendhan Manavalan, Mu Naushad. (2020). "Metal/Metal Oxide Nanocomposites for Bactericidal Effect: A Review" *Chemosphere*, 128607. [Accepted 8 October 2020; IF: 5.778(2019)]
669. Guo Yong Yew, Xuefei Tan\*, Kit Wayne Chew, Jo-Shu Chang, Yang Tao, Ning Jiang, **Pau Loke Show\***. (2020). "Thermal-Fenton mechanism with sonoprocessing for rapid non-catalytic transesterification of microalgal to biofuel production" *Chemical Engineering Journal*, 127264 [Accepted 2 October 2020; IF: 10.652(2019)]
670. Dinh Thi My Huong, Bing-Lan Liu, Wai Siong Chai, **Pau Loke Show**, Shen-Long Tsai\*, Yu-Kaung Chang\*. (2020). "Highly efficient dye removal and lysozyme purification using strong and weak cation-exchange nanofiber membranes" *International Journal of Biological Macromolecules*, 165, 1410-1421. [Accepted 5 October 2020; IF: 5.162(2019)]
671. Kai Ling Yu, Xin Jiat Lee, Hwai Chyuan Ong, Wei-Hsin Chen\*, Jo-Shu Chang, Chih-Sheng Lin, **Pau Loke Show**, Tau Chuan Ling. (2020). "Adsorptive removal of cationic methylene blue and anionic Congo red dyes using wet-torrefied microalgal biochar: equilibrium, kinetic and mechanism modelling" *Environmental Pollution*, 115986. [Accepted 1 November 2020; IF: 6.793 (2019)]

672. Thị Yến Hoàng\*, Kuan Shiong Khoo, Hà Lại Thị Ngọc, Quỳnh Trần Thị Thu, Tuyên Đỗ Thị, Hang Đinh Thị Thu, Ha Chu Hoàng, Sasikala Chinthalapati, Chyi-How Lay, **Pau Loke Show\***. (2020). "Sustainable cultivation via waste soybean extract for higher vaccenic acid production by purple non-sulfur bacteria" *Clean Technologies and Environmental Policy*. [Accepted: 9 August 2020; IF: 2.429(2019)]
673. Wen Yi Chia, Shir Reen Chia, Kuan Shiong Khoo, Kit Wayne Chew, **Pau Loke Show\***. (2020). "Sustainable membrane technology for resource recovery from wastewater: Forward osmosis and pressure retarded osmosis" *Journal of Water Process Engineering*, 101758. [Accepted 16 October 2020; IF: 3.465(2019)]
674. Kuan Shiong Khoo, Xuefei Tan\*, Chien Wei Ooi, Kit Wayne Chew, Wai Hong Leong, Yee Ho Chai, Shih-Hsin Ho\*, **Pau Loke Show\***. (2020). "How does ionic liquid play a role in the sustainability of biomass processing?" *Journal of Cleaner Production*, 124772. [Accepted 19 October 2020; IF: 7.246(2019)]
675. Mojtaba Tabandeh, Chin Kui Cheng, Gabriele Centi, **Pau Loke Show**, Wei-Hsin Chen, Tau Chuan Ling, Hwai Chyuan Ong, Eng-Poh Ng, Joon Ching Juan\*, Su Shiung Lam\*. (2020). "Recent advancement in deoxygenation of fatty acids via homogeneous catalysis for biofuel production" *Molecular Catalysis*, 111207. [Accepted 7 September 2020; IF: 3.687(2019)]
676. Thi Ngoc Thu Tran, Kuan Shiong Khoo, Kit Wayne Chew, Qui Tra Phan, Hong Son Nguyen, Toan Nguyen-Sy, Thi Dong Phuong Nguyen\*, Wei-Hsin Chen\*, **Pau Loke Show\***. (2020). "Modelling drying kinetic of oyster mushroom dehydration—the optimization of drying conditions for dehydration of *Pleurotus* species" *Materials Science for Energy Technologies*. [Accepted 17 October 2020]
677. **Pau Loke Show**, Chien Wei Ooi, Cher Pin Song, Wai Siong Chai, Guan-Ting Lin, Bing-Lan Liu\*, Yu-Kaung Chang\*. (2020) "Purification of lysozyme from chicken egg white by high-density cation exchange adsorbents in stirred fluidized bed adsorption system" *Food Chemistry*, 128543. [Accepted 30 October 2020; IF: 6.306(2019)]
678. Do Thi Bich Thuy, AnTien Nguyen, Kuan Shiong Khoo, Kit Wayne Chew, Margo Cnockaert, Peter Vandamme, Yeek-Chia Ho, Nguyen Duc Huy, Heriberto Hernández Cocoltzi, **Pau Loke Show\***. (2020) "Optimization of culture conditions for gamma-aminobutyric acid production by newly identified *Pediococcus pentosaceus* MN12 isolated from 'mam nem', a fermented fish sauce" *Bioengineered*, 12(1), 54-62. [Accepted 25 Nov 2020; IF: 2.205(2019)]
679. Aaronn Avit Ajeng, Rosazlin Abdullah\*, Marlinda Abdul Malek\*, Kit Wayne Chew, Yeek-Chia Ho, Tau Chuan Ling, Beng Fye Lau, **Pau Loke Show\***. (2020) "The Effects of Biofertilizers on Growth, Soil Fertility, and Nutrients Uptake of Oil Palm (*Elaeis Guineensis*) under Greenhouse Conditions" *Processes*, 8(12) 1681. [Accepted: 10 September 2020; IF: 2.753(2019)]
680. G Bharath\*, K Rambabu, Abdul Hai, Fawzi Banat\*, Saravanan Rajendran, Dionysios D Dionysiou, **Pau Loke Show**. (2020) "High-performance and stable Ru-Pd nanosphere catalyst supported on two-dimensional boron nitride nanosheets for the hydrogenation of furfural via water-mediated protonation" *Fuel*, 119826. [Accepted 19 November 2020; IF: 5.578(2019)]
681. **Pau Loke Show**, Kit Wayne Chew, Hui Yi Leong. (2020) "Advanced Food Process Technologies: Bridging Conventional Practices to Industry 4.0" *Current Nutrition & Food Science*, 16(9), 1286-1286.
682. Bao Lee Phoon, Chong Cheen Ong, Mohamed Shuaib Mohamed Saheed, **Pau-Loke Show**, Jo-Shu Chang, Tau Chuan Ling, Su Shiung Lam, Joon Ching Juan\*. (2020) "Conventional and emerging technologies for removal of antibiotics from wastewater" *Journal of Hazardous Materials*, 400, 122961. [Accepted 12 May 2020; IF: 9.038(2019)]

## Book Chapter:

683. Kuan Shiong Khoo, Hanna Yusof, Sze Ying Lee, **Pau Loke Show**. (2020) "Polymer-based liquid biphasic system" (pp 17-38) in *Liquid Biphasic System: Fundamentals and Applications in Bioseparation Technology*. Elsevier.
684. Kuan Shiong Khoo, Kin Loong Tan, Sze Ying Lee, **Pau Loke Show**. (2020) "Organic solvent-based liquid biphasic system" (pp 39-50) in *Liquid Biphasic System: Fundamentals and Applications in Bioseparation Technology*. Elsevier.
685. Shir Reen Chia, Zhi Sheng Khoo, Kit Wayne Chew, **Pau Loke Show**. (2020) "Ionic liquid-based liquid biphasic system" (pp 51-72) in *Liquid Biphasic System: Fundamentals and Applications in Bioseparation Technology*. Elsevier.
686. Yoong Kit Leong, Veronica Shi Shien Lee, **Pau Loke Show**. (2020) "Surfactant/detergent-based liquid biphasic system" (pp 73-84) in *Liquid Biphasic System: Fundamentals and Applications in Bioseparation Technology*. Elsevier.
687. Sze Ying Lee, **Pau Loke Show**. (2020) "Adjuvants in the liquid biphasic system" (pp 85-104) in *Liquid Biphasic System: Fundamentals and Applications in Bioseparation Technology*. Elsevier.
688. Apurav Krishna Koyande, Bijal Mistry, Sze Ying Lee, **Pau Loke Show**. (2020) "Flotation-assisted liquid biphasic system" (pp 105-126) in *Liquid Biphasic System: Fundamentals and Applications in Bioseparation Technology*. Elsevier.
689. Guo Yong Yew, Kai Xin Kow, Kit Wayne Chew, **Pau Loke Show**. (2020) "Microwave-assisted liquid biphasic system" (pp 127-148) in *Liquid Biphasic System: Fundamentals and Applications in Bioseparation Technology*. Elsevier.
690. Shir Reen Chia, Albert Fu Xian Lim, Kit Wayne Chew, **Pau Loke Show**. (2020) "Ultrasound-assisted liquid biphasic system" (pp 149-186) in *Liquid Biphasic System: Fundamentals and Applications in Bioseparation Technology*. Elsevier.
691. Apurav Krishna Koyande, Mohammad Ameer Abbas, Sze Ying Lee, **Pau Loke Show**. (2020) "Electricity-assisted liquid biphasic system" (pp 187-204) in *Liquid Biphasic System: Fundamentals and Applications in Bioseparation Technology*. Elsevier.
692. Guo Yong Yew, Chor Hoong Cheah, Kit Wayne Chew, **Pau Loke Show**. (2020) "Extractive cell disruption liquid biphasic system" (pp 205-242) in *Liquid Biphasic System: Fundamentals and Applications in Bioseparation Technology*. Elsevier.
693. Yoong Kit Leong, Esther Hui Xian Lim, **Pau Loke Show**. (2020) "Extractive bioconversion liquid biphasic system" (pp 243-262) in *Liquid Biphasic System: Fundamentals and Applications in Bioseparation Technology*. Elsevier.
694. Revathy Sankaran, Kaoshilya Bai Narenthra Rao, Tau Chuan Ling, **Pau Loke Show**. (2020) "Extractive crystallization liquid biphasic system: extractive crystallization" (pp 263-284) in *Liquid Biphasic System: Fundamentals and Applications in Bioseparation Technology*. Elsevier.
695. Revathy Sankaran, Natalie Fernandez, Tau Chuan Ling, **Pau Loke Show**. (2020) "Extractive technologies in liquid biphasic systems: extractive distillation" (pp 285-298) in *Liquid Biphasic System: Fundamentals and Applications in Bioseparation Technology*. Elsevier.

## 2019

696. Hui Yi Leong, Chien Wei Ooi, Chung Lim Law, Advina Lizah Julkifle, Tomohisa Katsuda, **Pau Loke Show\***. (2019) "Integration process for betacyanins extraction from peel and flesh of *Hylocereus polyrhizus* using liquid biphasic electric flotation system and antioxidant activity evaluation" *Separation and Purification Technology*, 209, pp 193-201. [Accepted 15 July 2018; IF: 5.107 (2018)]
697. Kuei-Hsiang Chen, Steven S-S Wang, **Pau-Loke Show**, Shih-Long Hsu, Yu-Kaung Chang\*. (2019) "Rapid and efficient recovery of C-phycoerythrin from highly turbid *Spirulina platensis*

- algae using stirred fluidized bed ion exchange chromatography" Separation and Purification Technology, 209, pp 636-645. [Accepted 28 August 2018; IF: 5.107 (2018)]
698. Hui Yi Leong, Chien-An Su, Bo-Sheng Lee, John Chi-Wei Lan, Chung Lim Law, Jo-Shu Chang, **Pau Loke Show\***. (2019) "Development of *Aurantiochytrium limacinum* SR21 cultivation using salt-rich waste feedstock for docosahexaenoic acid production and application of natural colourant in food product" Bioresource Technology, 271, pp 30-36. [Accepted 17 September 2018; IF: 6.669 (2018)]
699. Thi Dong Phuong Nguyen\*, Thi Van Anh Le, **Pau Loke Show\***, Thanh Thuy Nguyen, Minh Hien Tran, Thi Ngoc Thu Tran, Sze Ying Lee. (2019) " Bioflocculation formation of microalgae-bacteria in enhancing microalgae harvesting and nutrient removal from wastewater effluent" Bioresource Technology, 272, pp 34-39. [Accepted 30 September 2018; IF: 6.669 (2018)]
700. Sze Ying Lee, **Pau Loke Show\***, Ching-Min Ko, Yu-Kaung Chang. (2019) "A simple method for cell disruption by immobilization of lysozyme on the extrudate-shaped Na-Y zeolite: Recirculating packed bed disruption process" Biochemical Engineering Journal, 141, pp 210-216. [Accepted 15 October 2018; IF: 3.371 (2018)]
701. Guo Yong yew, Thiang Chai Tham, Chung Lim law, Dinh-Tio Chu, Chiako Ogino, **Pau Loke Show\***. (2019) "Emerging crosslinking techniques for glove manufacturers with improved nitrile glove properties and reduced allergic risks" Materials Today Communications, 19, pp 39-50. [Accepted 18 December 2018; IF: 1.859 (2018)]
702. Rambabu Krishnamoorthy, Govindan Bharath, Fawzi Banat\*, **Pau Loke Show**, Heriberto Hernandez Cocolletzi. (2019) "Mango leaf extract incorporated chitosan antioxidant film for active food packaging" International Journal of Biological Macromolecules, 126, pp. 1234-1243. [Accepted 21 December 2018; IF: 4.784 (2018)]
703. Wai Yan Cheah, **Pau Loke Show**, I-Son Ng, Guan Yu Lin, Chen Yaw Chiu, Yu-Kaung Chang\*. (2019) "Antibacterial activity of quaternized chitosan modified nanofiber membrane" International Journal of Biological Macromolecules, 126, pp. 569-577. [Accepted 21 December 2018; IF: 4.784 (2018)]
704. Bo-Jhih Lin, Wei-Hsin Chen\*, Tzu-Hsien Hsieh, Hwai Chyuan Ong, **Pau Loke Show**, Salman Raza Naqvi. (2019) "Oxidative reaction interaction and Synergistic index of emulsified pyrolysis bio-oil/biodiesel fuels" Renewable Energy, 136, pp. 223-234. [Accepted 30 December 2018; IF 5.439 (2018)]
705. Rambabu Krishnamoorthy, Govindan Bharath, Fawzi Banat, Velu Sagadevan, **Pau Loke Show\***. (2019) "Date pits activated carbon for divalent lead ions removal" Journal of Bioscience and Bioengineering, 128 (1) pp. 88-97 [Accepted 17 December 2018; IF: 2.032 (2018)]
706. Yang Tao, Mengfan Han, Xiaoge Gao, Yongbin Han\*, **Pau-Loke Show**, Chunquan Liu, Xiaosong Ye, Guangje Xie. (2019) "Applications of water blanching, surface contacting ultrasound-assisted air drying, and their combination for dehydration of white cabbage: Drying mechanism, bioactive profile, colour and rehydration property" Ultrasonics Sonochemistry, 53, pp. 192-201 [Accepted 25 January 2019; IF: 7.279 (2018)]
707. Apurav Krishna Koyande, Chew Kit Wayne, Krishnamoorthy Ramababu, Yang Tao, Dinh-Toi Chu, **Pau-Loke Show\***. (2019) "Microalgae: a potential alternative to health supplementation for humans" Food Science and Human Wellness, 8(1) pp. 16-24 [Accepted 2 March 2019]
708. Truong Manh Dung, Vo Truong Nhu Ngoc, Nguyen Hung Hiep, Truong Dinh Khoi, Vu Van Xiem, Thien Chu-Dinh, Artur Cieslar-Pobuda, Eleana Stoufi, **Pau-Loke Show\***, Yang tao, Nguyen Duy Bac, Nguyen Van Ba, Quynh-Anh Le, Van-Huey Pham, Dinh-Toi Chu. (2019) "Evaluation of Dental arch dimensions in 12-year-old Vietnamese children- A cross-sectional

- study of 4565 subjects" Scientific Reports, 9, article number: 3101 [Accepted 29 January 2019; IF: 4.011 (2018)]
709. Vu Thi Nga, Tran Uyen Ngoc, Le Bui Minh, Vo Truong Nhu Ngoc, Van-Huy Pham, Le Long Nghia, Nguyen Lan Hung Son, Thi Hong Van Pham, Nguyen Duy Bac, Tran Viet Tien, Nguyen Ngoc Minh Tuan, Yang Tao, **Pau Loke Show**, Dinh-Toi Chu\*. (2019) "Zoonotic diseases from birds to humans in Vietnam: possible diseases and their associated risk factors" European Journal of Clinical Microbiology & Infectious Diseases, 38 (6), pp. 1047-1058. [Accepted 5 February 2019; IF: 2.591 (2018)]
  710. Rambabu Krishnamoorthy\*, Govindan Bharath, P. Monash, Velu Sagadevan, Fawzi Banat, Mu. Naushad, **Pau Loke Show**. (2019) "Effective treatment of dye-polluted wastewater using nanoporous CaCl<sub>2</sub> modified polyethersulfone membrane "Process Safety and Environmental Protection, 124, pp. 266-278. [Accepted 15 February 2019; IF: 4.384 (2018)]
  711. Kit Wayne Chew, Shir Reen Chia, Sze Ying Lee, Liandong Zhu, **Pau-Loke Show\***. (2019) "Enhanced microalgal protein extraction and purification using sustainable microwave-assisted multiphase partitioning technique" Chemical Engineering Journal, 367, pp. 1-8. [Accepted 18 February 2019; IF: 8.355 (2018)]
  712. Bao Lee Phoon, Chin Wei Lai, Joon Ching Juan\*, **Pau-Loke Show\***, Guan-Ting Pan. (2019) "Recent developments of strontium titanate for photocatalytic water splitting application" International Journal of Hydrogen Energy, 44 (28), pp. 14316-14340 [Accepted 11 February 2019; IF: 4.084 (2018)]
  713. I-Son Ng, Malcolm S.Y. Tang, **Pau-Loke Show**, Zih-Ming Chiou, Jung-Chin Tsai, Yu-Kang Chang\*. (2019) "Enhancement of C-phycoerythrin purity using negative chromatography with chitosan-modified nanofiber membrane" International Journal of Biological Macromolecules, 132, pp.615-628 [Accepted 29 March 2019; IF: 4.784 (2018)]
  714. Thien Chu Dinh, Thuy Nguyen Thi Phuong, Le Bui Minh, Vu Thi Minh Thuc, Nguyen Duy Bac, Nguyen Van Tien, Van Huy Pham, **Pau-Loke Show\***, Yang Tao, Vo Truong Nhu Ngoc, Nguyen Thi Bich Ngoc, Adam Jurgonski, Deepak B. Thimiri Govinda Raj, PhamVan Tu, Vu Ngoc Ha, Joanna Czarzasta, Dinh-Toi Chu. (2019) "The effects of green tea on lipid metabolism and its potential applications for obesity and related metabolic disorders- An existing update" Diabetes & Metabolic Syndrome: Clinical Research & Reviews, 13, pp.1667-1673 [Accepted 13 March 2019]
  715. S.S. Arya\*, Admajith M. Kaimal, Moksha Chib, Sachin K. Sonawane, **Pau-Loke Show**. (2019) "Novel, energy efficient and green cloud point extraction: technology and applications in food processing" Journal of Food Science and Technology, 56(2), pp. 524-534 [Accepted 20 December 2018; IF: 1.850 (2018)]
  716. Preeti Pal, Kit Wayne Chew, Hong-Wei Yen, Jun Wei Lim, Man Kee Lam, Pau Loke Show\*. (2019) "Cultivation of Oily Microalgae for the Production of Third-Generation Biofuels" Sustainability, 11(19), 5424 [Accepted 29 August 2019; IF: 2.592(2018)]
  717. **Pau-Loke Show\***, Preeti Pal, Hui Yi Leong, Joon Ching Juan, Tau Chuan Ling. (2019) "A review on the advanced leachate treatment technologies and their performance comparison: an opportunity to keep the environment safe" Environmental Monitoring and Assessment, 191:227 pp. 1-28 [Accepted 7 March 2019; IF: 1.959 (2018)]
  718. Thi Dong Phuong Nguyen, Thi Ngoc Thu Tran, Thi Van Anh Le, Truc Xuyen Nguyen Phan, **Pau-Loke Show**, Shir Reen Chia. (2019) "Auto-flocculation through the cultivation of *Chlorella vulgaris* in seafood wastewater discharge: Influence of culture conditions on

- microalgae growth and nutrient removal" *Journal of Bioscience and Bioengineering*, 127, pp. 492-498 [Accepted 8 November 2018; IF: 2.032 (2018)]
719. Yang Tao, Yongbin Han\*, Wangxin Liu, Lu Peng, Yue Wang, Shekhar Kadam, **Pau-Loke Show**, Xiaosong Ye. (2019) "Parametric and phenomenological studies about ultrasound-enhanced biosorption of phenolics from fruit pomace extract by waste yeast" *Ultrasonics Sonochemistry*, 52, pp. 193-204 [Accepted 20 November 2018; IF: 7.279 (2018)]
720. Thien Chu Dinh, Nguyen Duy Bac, Le Bui Minh, Vo Truong Nhu Ngoc, Van-Huy Pham\*, Hoang-Long Vo, Nguyen Le Bao Tien, Vo Van Thanh, Yang Tao, **Pau-Loke Show**, Dinh-Toi Chu\*. (2019) "Zika virus in Vietnam, Laos, and Cambodia: are there health risks for travellers?" *European Journal of Clinical Microbiology & Infectious Diseases*, pp. 1-6 [Accepted 9 April 2019; IF: 2.591(2018)]
721. Guo Yong Yew, Sze Ying Lee, **Pau-Loke Show\***, Yang Tao, Chung Lim Law, Thi Trung Chinh Nguyen, Jo-Shu Chang\*. (2019) "Recent advances in algae biodiesel production: From upstream cultivation to downstream processing" *Bioresource Technology Reports*, 7, article-100227 [Accepted 7 May 2019; IF: 5.807(2018)]
722. Yoong Kit Leong, **Pau-Loke Show**, John Chi-Wen Lan, Rambabu Krishnamoorthy, Dinh-Toi Chu, Dillirani Nagarajan, Hong-Wei Yen, Jo-Shu Chang\*. (2019) "Application of thermo-separating aqueous two-phase system in extractive bioconversion of polyhydroxyalkanoates by *Cupriavidus necator* H16" *Bioresource Technology*, 287, article-121474 [Accepted 10 May 2019; IF: 6.669 (2018)]
723. Kit Wayne Chew, Shir Reen Chia, Rambabu Krishnamoorthy, Yang Tao, Dinh-Toi Chu, **Pau-Loke Show\***. (2019) "Liquid biphasic flotation for the purification of C-phycoerythrin from *Spirulina platensis* microalga" *Bioresource Technology*, 288, article- 121519 [Accepted 18 May 2019; IF: 6.669 (2018)]
724. Chung Hong Tan, **Pau-Loke Show\***, Tau Chuan Ling, Dillirani Nagarajan, Duu-Jong Lee, Wei-Hsin Chen, Jo-Shu Chang. (2019) "Exploring the potency of integrating semi-batch operation into lipid yield performance of *Chlamydomonas* sp. Tai-03" *Bioresource Technology*, 285, article-121331 [Accepted 8 April 2019; IF: 6.669 (2018)]
725. Wei-Hsin Chen\*, Ching-Lin Cheng, **Pau-Loke Show**, Hwai Chyuan Ong. (2019) "Torrefaction performance prediction approached by torrefaction severity factor" *Fuel*, 251, pp. 126-135 [Accepted 6 April 2019; IF: 5.128 (2018)]
726. Sze Ying Lee, Revathy Sankaran, Kit Wayne Chew, Chung Hong Tan, Rambabu Krishnamoorthy, Dinh-Toi Chu, **Pau-Loke Show\***. (2019) "Waste to bioenergy: a review on the recent conversion technologies" *BMC Energy*, pp.1-22 [Accepted 9 April 2019]
727. Hui Yi Leong, Yu-Kaung Chang, Chien Wei Ooi, Chung Lim Law, Advina Lizah Julkifle, **Pau-Loke Show\***. (2019) "Liquid Biphasic Electric Partitioning System as a Novel Integration Process for Betacyanins Extraction from Red-Purple pitaya and antioxidant properties assessment" *Frontiers in Chemistry*, 7, Article 201 [Accepted 15 March 2019; IF: 3.782 (2018)]
728. Thi Dong Phuong Nguyen, Duc Huy Nguyen, Jun Wei Lim, Chih-Kai Chang, Hui Yi Leong, Thi Ngoc Thu Tran, Thi Bich Hau Vu, Thi Trung Chinh Nguyen and **Pau-Loke Show\***. (2019) "Investigation of the relationship between bacteria growth and lipid production cultivating of microalgae *Chlorella vulgaris* in seafood wastewater" *Energies*, 12, 2282, pp.1-12 [Accepted 10 May 2019; IF: 2.707 (2018)]
729. Kuan Shiong Khoo, Sze Ying Lee, Chien Wei Ooi, Xiaoting Fu, Xiaoling Miao, Tau Chuan Ling, **Pau-Loke Show\***. (2019) "Recent advances in biorefinery of astaxanthin from

- Haematococcus pluvialis*" Bioresource Technology, 288, article 121606 [Accepted 2 June 2019; IF: 6.669(2018)]
730. Sze Yin Cheng, Beng Fye Lau, Jo-Shu Chang, Tan Chuan Ling\*, **Pau-Loke Show\***. (2019) "New prospects for modified algae in heavy metal adsorption" Trends in Biotechnology [In press; IF: 13.747 (2018)]
731. Kit Wayne Chew\*, Shir Reen Chia, Hong-Wei Yen, Saifuddin Nomanbhay, Yeek-Chia Ho, **Pau-Loke Show\***. (2019) "Transformation of Biomass waste into sustainable organic fertilizers" Sustainability, 11(8), Article 2266 [Accepted 11 April 2019; IF: 2.592(2018)]
732. Nhon Bui Van, Long Vo Hoang, Tung Bui Van, Hao Nguyen Si Anh, Hien Tran Minh, Khanh Do Nam, Tuan Ngo Tri, **Pau Loke Show**, Vu Thi Nga\*, Deepak B. Thimiri Govinda Raj, Dinh-Toi Chu\*. (2019) "Prevalence and risk factors of hypertension in the Vietnamese elderly" High Blood Pressure & Cardiovascular Prevention, 26(3) pp.239-246 [Accepted 2 April 2019]
733. Bao Lee Phoon, Chin Wei Lai, Joon Ching Juan\*, Wei-Hsin Chen\*, **Pau-Loke Show\***. (2019) "A review of synthesis and morphology of SrTiO<sub>3</sub> for energy and other applications" International Journal of Energy Research, pp.1-24 [Accepted 28 February 2019; IF: 3.343 (2018)]
734. Thi Ngoc Thu Tran, Kit Wayne Chew, Xuan Vung Bui, Thi Dong Phuong Nguyen, Thi Tuyet Anh Le, Thi Minh Hanh Truong, **Pau-Loke Show\***. (2019) "Optimization of isoflavones extraction from soybeans using full factorial design" Journal of Food Processing and Preservation, article 14078, pp. 1-10 [Accepted 7 June 2019; IF: 1.288 (2018)]
735. Siti Sabariah Din, Kit Wayne Chew, Yu-Kaung Chang, **Pau-Loke Show\***, Siew Moi Phang, Joon Ching Juan\* (2019) "Extraction of agar from *Eucheuma cottonii* and *Gelidium mansion* seaweeds with sonication pretreatment using autoclaving method" Journal of Oceanology and Limnology, 37(3), pp 871-880 [Accepted 3 September 2018; IF: 0.741 (2017)]
736. Shir Reen Chia, Kit Wayne Chew, Manickam Sivakumar, Tau Chuan Ling, Yang Tao, **Pau-Loke Show\***. (2019) "Isolation of protein from *Chlorella sorokiniana* CY1 using liquid biphasic flotation assisted with sonication through sugaring-out effect" Journal of Oceanology and Limnology, 37(3), pp 898-908 [Accepted 15 November 2018; IF: 0.741 (2017)]
737. Chaofan Zhang, **Pau-Loke Show**, Shih-Hsin Ho\*. (2019) "Progress and perspective on algal plastics – A critical review" Bioresource Technology, article 121700 [Accepted 22 June 2019; IF: 6.669 (2018)]
738. Shir Reen Chia, Kit Wayne Chew, Ao Xia, Shih-Hsin Ho, Jun Wei Lim, **Pau-Loke Show\***. (2019) "*Spirulina platensis* based biorefinery for the production of value-added products for food and pharmaceutical applications" Bioresource Technology, 289, article 121727 [Accepted 28 June 2019; IF: 6.669 (2018)]
739. Ao Xia\*, Pengfei Wei, Chihe Sun, Pau-Loke Show, Yun Huang, Qian Fu. (2019) "Hydrogen fermentation of organic wastewater with high ammonium concentration via electro dialysis system" Bioresource Technology, 288, article 121560 [Accepted 23 May 2019; IF: 6.669 (2018)]
740. Mei Yin Ong, Kit Wayne Chew, Saifuddin Nomanbhay\*, **Pau-Loke Show\***. (2019) "Optimization and kinetic study of non-catalytic transesterification of palm oil under subcritical condition using microwave technology" Energy Conversion and Management, 196, pp 1126-1137 [Accepted 25 June 2019; IF: 7.181 (2018)]
741. Xian Yih Ooi, Lee Eng Oi, Min-Yee Choo, Hwai Chyuan Ong, Hwei Voon Lee, Pau-Loke Show, Yu-Chuan Lin, Joon Ching Juan\*. (2019) "Efficient deoxygenation of triglycerides to hydrogen-biofuel over mesoporous Al<sub>2</sub>O<sub>3</sub>-TiO<sub>2</sub> catalyst" Fuel Processing Technology, 194, article 106120 [Accepted 8 June 2019; IF: 4.507 (2018)]

742. Dang Diem Hong\*, Hoang Thi Lan Anh, Luu Thi Tam, Pau-Loke Show, Hui Yi Leong. (2019) "Effects of nanoscale zerovalent cobalt on growth and photosynthetic parameters of soybean *Glycine max* (L.) Merr. DT26 at different stages" *BMC Energy*, 1, article 6, pp.1-9 [Accepted 31 May 2019]
743. Revathy Sankaran, Jenn Hau Bong, Yin Hui Chow, Fadzlie Wong Faizal Wong, Tau Chuan Ling, **Pau-Loke Show\***. (2019) "Reverse Micellar System in Protein Recovery- A Review of the latest developments" *Current Protein & Peptide Science*, 20:1 [In press; IF: 1.885 (2018)]
744. Chai Kee Phwan, Kit Wayne Chew, Abdi Hanra Sebayang, Hwai Chyuan Ong, Tau Chuan Ling, Marlinda Abdul Malek, Yeek-Chia Ho, , **Pau-Loke Show\***. (2019) "Effects of acids pre-treatment on the microbial fermentation process for bioethanol production from microalgae" *Biotechnology for Biofuels*, 12, article 191 [Accepted 31 July 2019; IF: 5.452 (2018)]
745. Shir Reen Chia, Malcolm S.Y. Tang, Yin Hui Chow, Chien Wei Ooi, Krishnamoorthy Rambabu, Liandong Zhu, **Pau-Loke Show\***. (2019) "Recent Developments of Reverse Micellar Techniques for Lysozyme, Bovine Serum Albumin, and Bromelain Extraction" *Molecular Biotechnology*, pp. 1-10. [Accepted 26 July 2019; IF: 1.712 (2018)]
746. Bello Salman, Mei Tin Ong, Saifuddin Nomanbhay\*, Arshad Adam Saxena, Revathy Sankaran, **Pau-Loke Show\***. (2019) "Thermal Analysis of Nigerian Oil Palm Biomass with Sachet-Water Plastic Wastes for Sustainable Production of Biofuel" *Processes*, 7(7), 475 [Accepted 8 July 2019; IF 1.963 (2018)]
747. Rambabu Krishnamoorthy\*, **Pau-Loke Show**, Govindan Bharath, Fawzi Banat\*, Mu Naushad, Jo-Shu Chang\* (2019) "Enhanced biohydrogen production from date seeds by *Clostridium thermocellum* ATCC 27405" *International Journal of Hydrogen Energy* [Accepted 22 June 2019; IF: 4.084 (2018)]
748. R. Swathy, Rambabu Krishnamoorthy\*, Fawzi Banat, Shih-Hsin Ho, Dinh-Tio Chu, **Pau-Loke Show\***. (2019) "Production and optimization of high-grade cellulose from waste date seeds by *Cellulomonas uda* NCIM 2353 for biohydrogen production" *International Journal of Hydrogen Energy* [Accepted 23 June 2019; IF: 4.084 (2018)]
749. Vu Thi Nga, Vo Ngoc Thuy Dug, Dinh-Toi Chu\*, Nguyen Le Bao Tien, Vo Van Thanh, Vo Truong Nhu Ngoc, Le Ngoc Hoan, Nguyen Thi Phuong, Van-Huy Pham\*, Yang Tao, Nguyen Phuong Linh, **Pau-Loke Show**, Duc-Lan Do. (2019) "School education and childhood obesity: A systemic review" *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*, 13(4), pp.2495-2501. [Accepted 8 July 2019]
750. Mei Yin Ong, Nor-Insyirah Syahira Abdul Latif, Hui Yi Leong, Bello Salman, **Pau-Loke Show\***, Saifuddin Nomanbhay. (2019) "Characterization and Analysis of Malaysian Macroalgae Biomass as Potential Feedstock for Bio-Oil Production" *Energies*, 12(18), article 3509, pp. 1-14 [Accepted 29 July 2019; IF: 2.707 (2018)]
751. Ali Ghanbariasad, Seyedeh-Masoumeh Taghizadeh, Pau-Loke Show, Saifuddin Nomanbhay\*, Aydin Berenjian, Younes Ghasemi, Alireza Ebrahiminezhad\*. (2019) "Controlled synthesis of iron oxyhydroxide (FeOOH) nanoparticles using secretory compounds from *Chlorella vulgaris* microalgae" *Bioengineered*, 10(1), pp. 390-396 [Accepted 20 August 2019; IF: 1.544 (2018)]
752. Hui Yi Leong, Chih-Kai Chang, Jun Wei Lim, Pau-Loke Show\*, Dong-Qiang Lin, Jo-Shu Chang\*. (2019) "Liquid Biphasic Systems for Oil-Rich Algae Bioproducts Processing" *Sustainability*, 11(17), article 4682, pp. 1-14 [Accepted 16 July 2019; IF: 2.592 (2018)]
753. Revathy Sankaran, Ricardo Andres Parra Cruz, **Pau-Loke Show\***, Choon Yian Haw, Sai Hin Lai, Eng-Poh Ng, Tau Chuan Ling\*. (2019) "Recent Advances of aqueous two-phase flotation

- system for the recovery of biomolecules" Fluid Phase Equilibria, 501, article 112271, pp. 1-10 [Accepted 8 August 2019; IF: 2.514 (2018)]
754. Wai Hong Leong, Siti Nur Azella Zaine, Yeek Chia Ho, Yoshimitsu Uemura, Man Kee Lam, Kuan Shiong Khoo, Worapon Kiatkittipong, Chin Kui Cheng, **Pau-Loke Show**, Jun Wei Lim\*. (2019) "Impact of various microalgal-bacterial populations on municipal wastewater bioremediation and its energy feasibility for lipid-based biofuel production" Journal of Environmental Management, 249, article 109384.[Accepted 8 August 2019; IF: 4.865 (2018)]
755. Shir Reen Chia, Kah Yan Mak, Yee Jian Khaw, Nazeem Suhaidi, Kit Wayne Chew, Pau-Loke Show\*. (2019) "An efficient and rapid method to extract and purify protein- Liquid Triphasic Flotation system" Bioresource Technology, 294, article 122158 [Accepted 15 September 2019; IF: 6.669 (2018)]
756. Ye Cao, Yang Tao\*, Xuhao Zhu, Yongbin Han\*, Dandan Li, Chunquan Liu, Xiaojun Liao, **Pau-Loke Show**. (2019) "Effect of microwave and air-borne ultrasound-assisted air drying kinetics and phytochemical properties of broccoli floret" Drying Technology [Accepted 26 August 2019; IF: 2.307 (2018)]
757. Wan Nurain Farahah Wan Basri, Hanita Daud, Man Kee Lam, Chin Kui Cheng, Wen Da Oh, Wen Nee Tan, Maizatul Shima Shaharun, Yin Fong Yeong, Ujang Paman, Katsuki Kasukabe, Evizal Abdul Kadir, **Pau-Loke Show**, Jun Wei Lim\*. (2019) "A Sugarcane-Bagasse-Based Adsorbent Employed for Mitigating Eutrophication Threats and Producing Biodiesel Simultaneously" Processes, 7(9), article 572, pp. 1-13 [Accepted 5 August 2019; IF: 1.963 (2018)]
758. Apurav Krishna Koyande, Kit Wayne Chew, Jun-Wei Lime, Sze Ying Lee, Man Kee Lam, **Pau-Loke Show\***. (2019) "Optimization of protein extraction from *Chlorella vulgaris* via novel sugaring-out assisted liquid biphasic electric flotation system" Engineering in Life Sciences, pp. 1-10 [Accepted 12 August 2019; IF: 1.936 (2018)]
759. Apurav Krishna Koyande, **Pau-Loke Show\***, Ruixin Guo, Bencan Tang, Chiaki Ogino, Jo-Shu Chang\*. (2019) "Bio-processing of algal bio-refinery: a review on current advances and future perspectives" Bioengineered, 10(1), 574-592. [Accepted 3 Oct 2019; IF: 1.544 (2018)]
760. Kuan Shiong Khoo, Kit Wayne Chew, Chien Wei Ooi, Hwai Chyuan Ong, Tau Chuan Ling, Pau-Loke Show\*. (2019) "Extraction of natural astaxanthin from *Haematococcus pluvialis* using liquid biphasic flotation system" Bioresource Technology, 290, article 121794 [Accepted 10 July 2019; IF: 6.669 (2018)]
- 761.** Wei-Hsin Chen\*, Chao-Wen Wang, Hwai Chyuan Ong, **Pau-Loke Show**, Tzu-Hsien Hsieh. (2019) "Torrefaction, pyrolysis and two-stage thermodegradation of hemicellulose, cellulose and lignin" Fuel, 258, article 116168 [Accepted 5 September 2019; IF: 5.128 (2018)]
762. Amir Izzuddin Adnan, Mei Yin Ong, Saifuddin Nomanbhay\*, Kit Wayne Chew, **Pau Loke Show**. (2019) "Technologies for Biogas Upgrading to Biomethane: A Review" Bioengineering, 6(4), pp. 92. [Accepted 30 September 2019]
763. Yan Song, Yang Tao, Xiaoyu Zhu\*, Yongbin Han\*, **Pau Loke Show**, Changnain Song, Hayyiratul Fatimah Mohd Zaid. (2019) "Ultrasound-Enhanced Hot Air Drying of Germinated Highland Barley Seeds: Drying Characteristics, Microstructure, and Bioactive Profile" AgriEngineering, 1(4), pp. 496-510. [Accepted 8 October 2019]
764. Guo Yong Yew, Kit Wayne Chew, Marlinda Abdul Malek, Yeek-Chia Ho, Wei-Hsin Chen, Tau Chuan Ling, **Pau Loke Show\***. (2019) "Hybrid liquid biphasic system for cell disruption and simultaneous lipid extraction from microalgae *Chlorella sorokiniana* CY-1 for biofuel production" Biotechnology for biofuels, 12(1), pp. 1-12. [Accepted 12 October 2019; IF: 5.452 (2018)]

765. Anh Tuan Tran, Huu An Nguyen, Dang Luu Vu, Minh Thong Pham, Cuong Tran, Hoang Kien Le, Quang Anh Nguyen, Thu Trang Nguyen, Tat Thien Nguyen, **Pau Loke Show**, Joanna Czarzasta, Thien Chu-Dinh\*, Yang Tao, Dinh-Toi Chu\*. (2019) "Basilar artery thrombectomy: assessment of outcome and identification of prognostic factors" *Acta Neurologica Belgica*, 1-7. [Accepted 3 October 2019; IF: 1.612(2018)]
766. Normawati M Yunus\*, Nur Hamizah Halim, Cecilia Devi Wilfred, Thanabalan Murugesan, Jun Wei Lim, **Pau Loke Show** (2019). "Thermophysical Properties and CO<sub>2</sub> Absorption of Ammonium-Based Protic Ionic Liquids Containing Acetate and Butyrate Anions" *Processes*, 7, 820. [Accepted 4 November 2019; IF: 1.963(2018)]
767. Gnanasundaram Nirmala, Thanapalan Murugesan, K Rambabu\*, K Sathiyarayanan, **Pau Loke Show**. (2019) "Adsorptive removal of phenol using banyan root activated carbon" *Chemical Engineering Communications*, 1-12. [Published 22 October 2019; IF: 1.431(2018)]
768. SS Arya\*, O Sawant, Sachin K Sonawane, **PL Show**, A Waghamare, Ruly Hilares, Júlio César Dos Santos. (2019) "Novel, Nonthermal, Energy Efficient, Industrially Scalable Hydrodynamic Cavitation–Applications in Food Processing" *Food Reviews International*, 1-24. [Published 1 October 2019; IF: 3.933(2018)]
769. Zi Jun Yong, Mohammed JK Bashir\*, Choon Aun Ng, Sumathi Sethupathi, Jun Wei Lim, **Pau Loke Show**. (2019) "Sustainable Waste-to-Energy Development in Malaysia: Appraisal of Environmental, Financial, and Public Issues Related with Energy Recovery from Municipal Solid Waste" *Processes*, 7(10), 676. [Accepted 22 August 2019; IF: 1.963(2018)]
770. Jing Lu, Chong Zhang, Hui Yi Leong, **Pau Loke Show**, Fengxia Lu, Zhaoxin Lu\*. (2019) "Overproduction of lipoxxygenase from *Pseudomonas aeruginosa* in *Escherichia coli* by auto-induction expression and its application in triphenylmethane dyes degradation" *Journal of Bioscience and Bioengineering*. [Accepted 7 September 2019; IF: 2.032(2018)]
771. Azry Borhan\*, Suzana Yusup, Jun Wei Lim, **Pau Loke Show**. (2019) "Characterization and Modelling Studies of Activated Carbon Produced from Rubber-Seed Shell Using KOH for CO<sub>2</sub> Adsorption" *Processes*, 7(11), 855. [Accepted 11 November 2019; IF: 1.963(2018)]
772. Yi-Kai Chih, Wei-Hsin Chen\*, Hwai Chyuan Ong, **Pau Loke Show**. "Product Characteristics of Torrefied Wood Sawdust in Normal and Vacuum Environments" *Energies*, 12(20), 3844. [Accepted 4 October 2019; IF: 2.707 (2018)]
773. Vivek Jagadeesan Sharavanan, Muthusaravanan Sivaramakrishnan, N Sivarajasekar\*, N Senthilrani, Ram Kothandan, Nirajan Dhakal, S Sivamani, **Pau Loke Show**, Md Rabiul Awwal, Mu Naushad\*. (2019) "Pollutants inducing epigenetic changes and diseases" *Environmental Chemistry Letters*, 1-19. [Accepted 18 October 2019; IF: 4.617 (2018)]
774. Pei En Tham, Yan Jer Ng, Revathy Sankaran, Kuan Shiong Khoo, Kit Wayne Chew\*, Yee Jiun Yap, Masnindah Malahubban, Fitri Abdul Aziz Zakry, **Pau Loke Show\***. (2019) "Recovery of Protein from Dairy Milk Waste Product Using Alcohol-Salt Liquid Biphasic Flotation" *Processes*, 7(12), 875. [Accepted 19 November 2019; IF: 1.963(2018)]
775. Revathy Sankaran, Ricardo Andres Parra Cruz, Harshini Pakalapati, **Pau Loke Show**, Tau Chuan Ling, Chen Wei-Hsin\*, Yang Tao. (2019) "Recent advances in the pretreatment of microalgal and lignocellulosic biomass: A comprehensive review" *Bioresource Technology*, 122476. [Accepted 19 November 2019; IF: 6.669 (2018)]
776. **P-L Show\***. (2019) "Meet Our Co-Editor" *Current Nutrition & Food Science* 15(7), 629-629. [Published 1 December 2019]
777. Le Thi Nhi-Cong\*, Do Thi Lien, Bhaskar Sen Gupta, Cung Thi Ngoc Mai, Hoang Phuong Ha, Nguyen Thi Minh Nguyet, Tran Hoa Duan, Dong Van Quyen, Hayyiratul Fatimah Mohd Zaid, Revathy Sankaran, **Pau Loke Show\***. (2019). "Enhanced Degradation of Diesel Oil by Using Biofilms Formed by Indigenous Purple Photosynthetic Bacteria from Oil-Contaminated Coasts of

Vietnam on Different Carriers" Applied Biochemistry and Biotechnology, 1-18. [Accepted 5 December 2019; IF: 2.140(2018)]

778. Shir Reen Chia, Kit Wayne Chew, Hayyiratul Fatimah Mohd Zaid, Dinh-Toi Chu, Yang Tao, **Pau Loke Show**\*. (2019). "Microalgal Protein Extraction From *Chlorella vulgaris* FSP-E Using Triphasic Partitioning Technique With Sonication" *Frontiers in bioengineering and biotechnology*, 7(396), 1-13. [Accepted:21 November 2019, IF: 3.644(2019)]

#### **Book Chapter:**

779. Sze Ying Lee, Kit Wayne Chew, **Pau-Loke Show**. (2019) "Cell Separation and Disruption, Product Recovery, and Purification" (pp 237-271) in *Essentials in Fermentation Technology*. SpringerLink.
780. Shir Reen Chia, Winn Sen Lam, Wei Hon Seah, **Pau Loke Show**. (2019). "Filtration" (pp 27-48) in *Bioprocess Engineering: Downstream Processing*. CRC Press.
781. Kit Wayne Chew, Bervyn Qin Chyuan Tan, Jiang Chier Bong, Kevin Qi Chong Hwang, **Pau Loke Show**. (2019). "Membrane-Based Separation Processes" (pp 55-72) in *Bioprocess Engineering: Downstream Processing*. CRC Press.
782. Kai Ling Yu, Sho Yin Chew, Shuk Yin Lu, Yoong Xin Pang, **Pau Loke Show**. (2019). "Reverse Osmosis" (pp 77-97) in *Bioprocess Engineering: Downstream Processing*. CRC Press.
783. Hui Yi Leong, **Pau Loke Show**, K. Vogisha Kunjune, Qi Wye Neoh, Payal Sunil Thadani. (2019). "Liquid-Liquid Separation" (pp 165-185) in *Bioprocess Engineering: Downstream Processing*. CRC Press.
784. Chung Hong Tan, Zahra Motavasel, Navin Raj Vijiaretnam, **Pau Loke Show**. (2019). "Drying" (pp 189-204) in *Bioprocess Engineering: Downstream Processing*. CRC Press.
785. Chung Hong Tan, Dillirani Nagarajan, **Pau Loke Show**, Jo-Shu Chang. (2019). "Biodiesel From Microalgae" (pp 601-628) in *Biofuels: Alternative Feedstocks and Conversion Processes for the Production of Liquid and Gaseous Biofuels*. Academic Press.

#### **2018**

786. Kit Wayne Chew, Joon Ching Juan, Siew Moi Phang, Tau Chuan Ling, **Pau Loke Show**\*. (2018) "An overview on the development of conventional and alternative extractive methods for the purification of agarose from seaweed" *Separation Science and Technology*, 53. [Accepted 23 October 2017; IF: 1.17 (2016)]
787. Siewhui Chong, Guan-Ting Pan, Jitkai Chin, **Pau Loke Show**, Thomas Chung Kuang Yang, **Chao-Ming Huang**\*. (2018) "Integration of 3D Printing and Industry 4.0 into Engineering Teaching", *Sustainability* 2018, 10(11), 3960. [Accepted 29 October 2018; IF: 2.592 (2018)]
788. Sewn Cen Lo, Ramakrishnan Nagasundara Ramanan, Beng Ti Tey, Wen Siang Tan, **Pau Loke Show**, Tau Chuan Ling, **Chien Wei Ooi**\*. (2018) "Purification of the recombinant enhanced green fluorescent protein from *Escherichia coli* using alcohol + salt aqueous two-phase systems" *Separation and Purification Technology*, 192, pp 130-139. [Accepted 29 September 2017; IF: 3.359 (2016)]
789. Revathy Sankaran, **Pau Loke Show**\*, Sze Ying Lee, Yee Jiun Yap, Tau Chuan Ling. (2018) "Integration process of fermentation and liquid biphasic flotation for lipase separation from *Burkholderia cepacia*" *Bioresource Technology*, 250, pp 306-316. [Accepted: 16 November 2017; IF: 6.669 (2018)]

790. Yoong Kit Leong, Chih-Kai Chang, Senthil Kumar Arumugasamy, John Chi-Wei Lan\*, Hwei-San Loh, Dinie Muhammad, **Pau Loke Show\***. (2018) "Statistical design of experimental and bootstrap neural network modelling approach for thermoseparating aqueous two-phase extraction of polyhydroxyalkanoates" *Polymers*, 10, pp 132. [Accepted: 26 January 2018; IF: 3.364 (2016)]
791. Shir Reen Chia, Kit Wayne Chew, **Pau Loke Show\***, Yee Jiun Yap, Hwai Chyuan Ong, Tau Chuan Ling, Jo-Shu Chang\*. (2018) "Analysis of economic and environmental aspects of microalgae biorefinery for biofuels production: A review" *Biotechnology Journal*. [Accepted: 15 January 2018; IF: 3.649 (2016)]
792. Kit Wayne Chew, Tau Chuan Ling, **Pau Loke Show\***. (2018) "Recent developments and applications of three-phase partitioning for the recovery of proteins" *Separation & Purification Reviews*, pp 1-13. [Accepted: 15 December 2017; IF: 6.077 (2016)]
793. Yee Meng Wong, Ta Yeong Wu, Tau Chuan Ling, **Pau Loke Show**, Sze Ying Lee, Jo-Shu Chang, Shaliza Ibrahim, Joon Ching Juan\*. (2018) "Evaluating new bio-hydrogen producers: *Clostridium perfringens* strain JJC, *Clostridium bifermentans* strain WYM and *Clostridium* sp. strain Ade.TY" *Journal of Bioscience and Bioengineering*, 125, 590-598. [Accepted: 15 December 2017; IF: 2.24 (2016)]
794. Kit Wayne Chew, Shir Reen Chia, Yee Jiun Yap, Tau Chuan Ling, Yang Tao, **Pau Loke Show\***. (2018) "Densification of food waste compost: Effects of moisture content and dairy powder waste additives on pellet quality" *Process Safety and Environment Protection*. [Accepted: 8 March 2018; IF: 2.848 (2016)]
795. Hui Yi Leong, Chien Wei Ooi, Chung Lim Law, Advina Lizah Julkifle, Tau Chuan Ling, **Pau Loke Show\***. (2018) "Application of liquid biphasic flotation for betacyanins extraction from peel and flesh of *Hylocereus polyrhizus* and antioxidant activity evaluation" *Separation and Purification Technology*, 201, pp 156-166. [Accepted: 3 March 2018; IF: 3.359 (2016)]
796. Revathy Sankaran, **Pau Loke Show\***, Yee Jiun Yap, Hon Loong Lam, Tau Chuan Ling, Guan-Ting Pan, Thomas C-K Yang. (2018) "Sustainable approach in the recycling of phase components of large scale aqueous two-phase flotation for lipase recovery" *Journal of Cleaner Production*, 184, pp 938-948. [Accepted: 28 February 2018; IF: 5.715 (2016)]
797. Wai Yan Cheah, **Pau Loke Show**, Joon Ching Juan, Jo-Shu Chang, Tau Chuan Ling\*. (2018) "Waste to energy: the effects of *Pseudomonas* sp. on *Chlorella sorokiniana* biomass and lipid productions in palm oil mill effluent" *Clean Technologies and Environmental Policy*. [Accepted: 14 February 2018; IF: 3.331 (2016)]
798. Suraya Zulkepli, Joon Ching Juan\*, Hwei Voon Lee, Noor Saadah Abd Rahman, **Pau Loke Show**, Eng Poh Ng. (2018) "Modified mesoporous HMS supported Ni for deoxygenation of triolein into hydrocarbon-biofuel production" *Energy Conversion and Management*, 165, pp 495-508. [Accepted: 26 March 2018; IF: 5.589 (2016)]
799. Yong Yang Gan, Hwai Chyuan Ong\*, **Pau Loke Show**, Tau Chuan Ling, Wei-Hsin Chen, Kai Ling Yu, Rosazlin Abdullah. (2018) "Torrefaction of microalgal biochar as potential coal fuel and application as bio-adsorbent" *Energy Conversion and Management*, 165, pp 152-162. [Accepted: 17 March 2018; IF: 5.589 (2016)]
800. Wai Yan Cheah, **Pau Loke Show**, Joon Ching Juan, Jo-Shu Chang, Tau Chuan Ling\*. (2018) "Enhancing biomass and lipid productions of microalgae in palm oil mill effluent using carbon and nutrient supplementation" *Energy Conversion and Management*, 164, pp 188-197. [Accepted: 27 February 2018; IF: 5.589 (2016)]

801. Win Nee Phong, **Pau Loke Show**, Yin Hui Chow, Tau Chuan Ling\*. (2018) "Recovery of biotechnological products using aqueous two-phase systems" *Journal of Bioscience and Bioengineering*. [Accepted: 10 March 2018; IF: 2.240 (2016)]
802. Shir Reen Chia, **Pau Loke Show**, Siew-Moi Phang, Tau Chuan Ling, Hwai Chyuan Ong\*. (2018) "Sustainable approach in phlorotannin recovery from macroalgae" *Journal of Bioscience and Bioengineering*. [Accepted: 19 February 2018; IF: 2.240 (2016)]
803. Win Nee Phong, **Pau Loke Show\***, Cheng Foh Le, Yang Tao, Jo-Shu Chang, Tau Chuan Ling. (2018) "Improving cell disruption efficiency to facilitate protein release from microalgae using chemical and mechanical integrated method" *Biochemical Engineering Journal*, 135, pp 83-90. [Accepted: 2 April 2018; IF: 2.892 (2016)]
804. Kit Wayne Chew, Jing Ying Yap, Siti Sabariah Din, Tau Chuan Ling, Purushothaman Monash, **Pau Loke Show\***. (2018) "Developments in fermentative butanol production as an alternative biofuel source" *Journal of Energy Resources*, 140, pp 040801. [IF: 1.674 (2016)]
805. Kai Ling Yu, **Pau Loke Show**, Hwai Chyuan Ong\*, Tau Chuan Ling, Wei-Hsin Chen, Mohamad Amran Mohd Salleh. (2018) "Biochar production from microalgae cultivation through pyrolysis as a sustainable carbon sequestration and biorefinery approach" *Clean Technologies and Environmental Policy*. [Accepted: 22 March 2018; IF: 3.331 (2016)]
806. Revathy Sankaran, **Pau Loke Show\***, Yee Jiun Yap, Yang Tao, Tau Chuan Ling, Katsuda Tomohisa. (2018) "Green technology of liquid biphasic flotation for enzyme recovery utilizing recycling surfactant and sorbitol" *Clean Technologies and Environmental Policy*. [IF: 3.331 (2016)]
807. Yang Tao, Jinglin Zhang, Sirui Jiang, Yiqun Xu, **Pau-Loke Show**, Yongbin Han\*, Xiaosong Ye, Mingru Ye. (2018) "Contacting ultrasound enhanced hot-air convective drying of garlic slices: Mass transfer modelling and quality evaluation" *Journal of Food Engineering*, 235, pp 79-88. [Accepted: 30 April 2018; IF: 3.197 (2017)]
808. Kit Wayne Chew, **Pau Loke Show\***, Yee Jiun Yap, Joon Ching Juan, Siew Moi Phang, Tau Chuan Ling, Jo-Shu Chang. (2018) "Sonication and grinding pre-treatments on *Gelidium amansii* seaweed for the extraction and characterization of Agarose" *Frontiers of Environmental Science & Engineering*, 12, pp 2. [Accepted: 24 May 2018; IF: 1.961 (2017)]
809. Kit Wayne Chew, Shir Reen Chia, **Pau Loke Show\***, Yee Jiun Yap, Tau Chuan Ling, Jo-Shu Chang. (2018) "Effects of water culture medium, cultivation systems and growth modes for microalgae cultivation: A review" *Journal of the Taiwan Institute of Chemical Engineers*. [Accepted: 25 May 2018; IF: 3.849 (2017)]
810. Revathy Sankaran, Sivakumar Manickam, Yee Jiun Yap, Tau Chuan Ling, Jo-Shu Chang, **Pau Loke Show\***. (2018) "Extraction of proteins from microalgae using integrated method of sugaring-out assisted liquid biphasic flotation (LBF) and ultrasound" *Ultrasonics Sonochemistry*, 48, pp 231-239. [Accepted 2 June 2018; IF: 6.012 (2017)]
811. Harshini Pakalapati, Chih-Kai Chang, **Pau Loke Show**, Senthil Kumar Arumugasamy, John Chi-Wei Lan\*. (2018) "Development of polyhydroxyalkanoates production from waste feedstocks and applications" *Journal of Bioscience and Bioengineering*. [Accepted 23 March 2018; IF: 2.015 (2017)]
812. Cher Pin Song, Ramakrishnan Nagasundara Ramanan, R Vijayaraghavan, Douglas R MacFarlane, Eng-Seng Chan, **Pau Loke Show**, Siek Ting Yong, Chien-Wei Ooi\*. (2018) "Effect of salt-based adjuvant on partition behaviour of protein in aqueous two-phase systems composed of polypropylene glycol and choline glycinate" *Separation and Purification Technology*, 196, pp 281-286. [Accepted: 6 September 2017; IF: 3.927 (2017)]

813. Win Nee Phong, **Pau Loke Show**, Tau Chuan Ling, Joon Ching Juan, Eng-Poh Ng, Jo-Shu Chang\*. (2018) "Mild cell disruption methods for bio-functional proteins recovery from microalgae - Recent developments and future perspectives" *Algal Research*, 31, pp 506-516. [Accepted: 10 April 2017; IF: 5.64 (2016)]
814. Hui Yi Leong, **Pau Loke Show\***, Miang Hoong Lim, Chien Wei Ooi, Tau Chuan Ling. (2018) "Natural red pigments from plants and their health benefits: A review" *Food Reviews International*, 34, pp 463-482. [Accepted: 10 May 2017; IF: 2.000 (2016)]
815. Kit Wayne Chew, Shir Reen Chia, **Pau Loke Show\***, Tau Chuan Ling, Shalini S Arya, Jo-Shu Chang. (2018) "Food waste compost as an organic nutrient source for the cultivation of *Chlorella vulgaris*" *Bioresource Technology*, 267, pp 356-362. [Accepted 13 July 2018; IF: 5.807 (2017)]
816. Wai Yan Cheah, **Pau Loke Show\***, Joon Ching Juan, Jo-Shu Chang, Tau Chuan Ling\*. (2018) "Microalgae cultivation in palm oil mill effluent (POME) for lipid production and pollutants removal" *Energy and Conversion Management*, 174, pp 430-438. [Accepted 16 August 2018; IF: 6.377 (2017)]
817. Chai Kee Phwan, Hwai Chyuan Ong\*, Wei-Hsin Chen, Tau Chuan Ling, Eng Poh Ng, **Pau Loke Show\***. (2018) "Overview: Comparison of pretreatment technologies and fermentation processes of bioethanol from microalgae" *Energy and Conversion Management*, 173, pp 81-94. [Accepted 17 July 2018; IF: 6.377 (2017)]
818. Hui Yi Leong, Chien Wei Ooi, Chung Lim Law, Advina Lizah Julkifle, Guan-Ting Pan, **Pau Loke Show\***. (2018) "Investigation of betacyanins stability from peel and flesh of red-purple pitaya with food additives supplementation and pH treatments" *LWT*, 98 (5), pp 546-558. [Accepted 10 September 2018, IF: 3.129 (2017)]
819. Kuei-Hsiang Chen, Steven S-S Wang, **Pau-Loke Show**, Guan-Ting Lin, Yu-Kaung Chang\*. (2018) "A rapid and efficient technique for direct extraction of C-phycoerythrin from highly turbid *Spirulina platensis* algae using hydrophobic interaction chromatography in stirred fluidized bed" *Biochemical Engineering Journal*, 140, pp 47-56. [Accepted 5 September 2018; IF: 3.226 (2017)]
820. Hui Yi Leong, Chien Wei Ooi, Chung Lim Law, Advina Lizah Julkifle, **Pau Loke Show\***. (2018) "Betacyanins extraction from *Hylocereus polyrhizus* using alcohol/salt-based liquid biphasic partitioning system and antioxidant activity evaluation" *Separation Science and Technology*. [Accepted 27 August 2018, IF: 1.200 (2017)]
821. Xin Jiat Lee, **Pau Loke Show**, Tomohisa Katsuda, Wei-Hsin Chen, Jo-Shu Chang\*. (2018) "Surface grafting techniques on the improvement of membrane bioreactor: State-of-the-art advances" *Bioresource Technology*, 269, pp 489-502. [Accepted 20 August 2018; IF: 5.807 (2017)]
822. Revathy Sankaran\*, **Pau Loke Show\***, Yu-Shen Cheng, Yang Tao, Xia Ao, Thi Dong Phuong Nguyen, Dong Van Quyen. (2018) "Integration process for protein extraction from microalgae using liquid biphasic electric flotation (LBEF) system" *Molecular Biotechnology*, 60, pp 749-761. [IF: 1.815 (2017)]
823. Shir Reen Chia, Kit Wayne Chew, **Pau Loke Show**, Hwai Chyuan Ong, Siew-Moi Phang, Tau Chuan Ling, Dillirani Nagarajan, Duu-Jong Lee, Jo-Shu Chang\* (2018) "Sustainable approaches for algae utilization in bioenergy production" *Renewable Energy*, 129, pp 838-852. [Accepted: 1 April 2017; IF: 4.357 (2016)]
824. Qi Hao Looi, Jhi Biau Foo, May Teng Lim, Cheng Foh Le, **Pau Loke Show\***. (2018) "How far have we reached in the development of effective influenza vaccine?" *International Reviews of Immunology*. [Accepted 11 July 2018; IF: 2.933 (2017)]

825. Yee Meng Wong, **Pau Loke Show**, Ta Yeong Wu, Hui Yi Leong, Shaliza Ibrahim, Joon Ching Juan\*. (2018) "Production of bio-hydrogen from dairy wastewater using pretreated landfill leachate sludge as an inoculum" *Journal of Bioscience and Bioengineering*. [Accepted 15 July 2018; IF: 2.015 (2017)]
826. Yu-Kaung Chang\*, **Pau-Loke Show**, John Chi-Wei Lan, Jung-Chin Tsai, Chi-Rong Huang. (2018) "Isolation of C-phycoerythrin from *Spirulina platensis* microalga using Ionic liquid-based aqueous two-phase system" *Bioresource Technology*, 270, pp 320-327. [Accepted 26 July 2018; IF: 5.807 (2017)]
827. **Pau Loke Show\***, Phei Li Lau, Dominic C. Y. Foo. (2018) "Green technologies: innovations, challenges, and prospects" *Clean Technologies and Environmental Policy*. [Published online 17 September 2018; IF: 2.337 (2017)]
828. Kuei-Hsiang Chen, Sze-Ying Lee, **Pau-Loke Show**, Shih-Cheng Hong, Yu-Kaung Chang\*. (2018) "Direct recovery of malate dehydrogenase from highly turbid yeast cell homogenate using dye-ligand affinity chromatography in stirred fluidized bed" *Journal of Chromatography B*, 1100, 65-75. [Accepted 28 September 2018; IF: 2.441 (2017)]
829. Cher Pin Song, Poh En Liew, Zora Teh, Schian Pei Lim, **Pau Loke Show**, Chien Wei Ooi\*. (2018) "Purification of the recombinant green fluorescent protein using aqueous two-phase system composed of recyclable CO<sub>2</sub>-based alkyl carbamate ionic liquid" *Frontiers in bioengineering and biotechnology*, 6(529), 1-10. [Accepted:11 October 2018; IF: 3.644(2019)]

#### Book Chapter:

830. Revathy Sankaran, **Pau L Show**, Dillirani Nagarajan, Jo-Shu Chang. (2018) "Exploitation and biorefinery of microalgae (pp 571-601) in *Waste Biorefinery*. Elsevier.
831. Kit Wayne Chew, Shir Reen Chia, **Pau Loke Show**, Tau Chuan Ling, Jo-shu Chang. (2018) "Biofuels from microbial lipids (pp 359-388) in *Bioreactors for Microbial Biomass and Energy Conversion*. Springer, Singapore.

#### 2017

832. , Kit Wayne Chew Jing Ying Yap, **Pau Loke Show**, Hui Suan Ng, Joon Ching Juan, Tau Chuan Ling, Duu-Jong Lee, Jo-Shu Chang\*. (2017) "Microalgae biorefinery: High-value products perspectives" *Bioresource Technology*, 229, pp 53-62. [Accepted: 6 January 2017; IF: 5.561 (2016)]
833. Sze Ying Lee, Ianatul Khoiroh, Tau Chuan Ling, **Pau Loke Show\***. (2017) "Recent advances in protein extraction using ionic liquid-based aqueous two-phase systems" *Separation & Purification Reviews*. [Accepted: 19 January 2017; IF: 6.077 (2016)]
834. Sze Ying Lee, Ianatul Khoiroh, Tau Chuan Ling, **Pau Loke Show\***. (2017) "Enhanced recovery of lipase derived from *Burkholderia cepacia* from fermentation broth using recyclable ionic liquid/polymer-based aqueous two-phase systems" *Separation and Purification Technology*, 179, pp 152-160. [Accepted: 21 January 2017; IF: 3.359 (2016)]
835. Yoong Kit Leong, John Chi-Wei Lan, Hwei-San Loh, Tau Chuan Ling, Chien Wei Ooi, **Pau Loke Show\***. (2017) "Cloud-point extraction of green polymers from *Cupriavidus necator* lysate using thermoseparating-based aqueous two-phase extraction" *Journal of Bioscience and Bioengineering*, 123, pp 370-375. [Accepted: 12 September 2016; IF: 2.24 (2016)]
836. **Pau Loke Show**, Malcolm SY Tang, Dillirani Nagarajan, Tau Chuan Ling, Chien-Wei Ooi, Jo-Shu Chang\*. (2017) "A holistic approach to manage microalgae for biofuel applications"

- International Journal of Molecular Sciences, 18, 215. [Accepted: 6 January 2017; IF: 3.226 (2016)]
837. Kai Ling Yu, **Pau Loke Show**, Hwai Chyuan Ong, Tau Chuan Ling, John Chi-Wei Lan, Wei-Hsin Chen, Jo-Shu Chang\*. (2017) "Microalgae from wastewater treatment to biochar – Feedstock preparation and conversion technologies" *Energy Conversion and Management*, 150, pp 1-13. [Accepted: 28 January 2017; IF: 5.589 (2016)]
838. Sze Ying Lee, **Pau Loke Show**\*, Tau Chuan Ling, Jo-Shu Chang. (2017) "Single-step disruption and protein recovery from *Chlorella vulgaris* using ultrasonication and ionic liquid buffer aqueous solutions as extractive solvents" *Biochemical Engineering Journal*, 124, pp 26-35. [Accepted: 20 April 2017; IF: 2.892 (2016)]
839. Kai Ling Yu, Beng Fye Lau, **Pau Loke Show**, Hwai Chyuan Ong, Tau Chuan Ling, Wei-Hsin Chen, Ng Eng Poh, Jo-Shu Chang\*. (2017) "Recent developments on algal biochar production and characterization" *Bioresource Technology*, 246, pp 2-11. [Accepted: 3 August 2017; IF: 5.651 (2016)]
840. Win Nee Phong, **Pau Loke Show**\*, Wei Heng Teh, Tiong Xin Teh, Hilary Mae Yan Lim, Nurul Shafira Nazri, Chung Hong Tan, Jo-Shu Chang, Tau Chuan Ling. (2017) "Proteins recovery from wet microalgae using liquid biphasic flotation (LBF)" *Bioresource Technology*, 244, pp 1329-1336. [Accepted: 26 May 2017; IF: 5.651 (2016)]
841. Wan Yng Linda Jong, **Pau Loke Show**, Tau Chuan Ling, Yee Shin Tan\*. (2017) "Recovery of lignin peroxidase from submerged liquid fermentation of *Amauroderma rugosum* (Blume & T. Nees) Torrend using polyethylene glycol/salt aqueous two-phase system" *Journal of Bioscience and Bioengineering*, 124, pp 91-98. [Accepted: 12 February 2017; IF: 2.24 (2016)]
842. Hui Suan Ng, Ai Ni Teoh, Jonathan Chee Woei Lim, Joo Shun Tan, Pik Ki Wan, Hip Seng Yim, **Pau Loke Show**, John Chi-Wei Lan\*. (2017) "Thermo-sensitive aqueous biphasic extraction of polyphenols from *Camellia sinensis* var. *assamica* leaves" *Journal of the Taiwan Institute of Chemical Engineers*. [Accepted: 12 February 2017; IF: 3.217 (2016)]
843. Yoong Kit Leong, **Pau Loke Show**\*, John Chi-Wei Lan, Hwei-San Loh, Hon Loong Lam, Tau Chuan Ling. (2017) "Economic and environmental analysis of PHAs production process" *Clean Technologies and Environmental Policy*, 19, pp 1941-1953. [Accepted: September 2017; IF: 3.331 (2016)]
844. Sze Ying Lee, Ianatul Khoiroh, João AP Coutinho, **Pau Loke Show**, Sónia PM Ventura\*. (2017) "Lipase production and purification by self-buffering ionic liquid-based aqueous biphasic systems" *Process Biochemistry*, 63, pp 221-228. [Accepted: 30 August 2017; IF: 2.497 (2016)]
845. Yoong Kit Leong, **Pau Loke Show**, John Chi-Wei Lan\*, Hwei-San Loh, Yee Jiun Yap, Tau Chuan Ling. (2017) "Extraction and purification of polyhydroxyalkanoates (PHAs): Application of Thermoseparating aqueous two-phase extraction" *Journal of Polymer Research*, 24, pp 158. [Accepted: 16 August 2017; IF: 1.615 (2016)]
846. Min-Yee Choo, **Pau Loke Show**, Jo-Shu Chang\*, Tau Chuan Ling, Eng-Poh Ng, Siew Moi Phang, Lee Eng Oi, Joon Ching Juan\*. (2017) "Recent progress in catalytic conversion of microalgae to green hydrocarbon: A Review" *Journal of the Taiwan Institute of Chemical Engineers*, 79, pp 116-124. [Accepted: 14 June 2017; IF: 4.217 (2016)]

#### **Book Chapter:**

847. **Pau Loke Show**, Arumugasamy Senthil Kumar, Sue Wen Siow, Siti Sabariah Din, Vidya Sundaram, Kulandai Arockia Rajesh Packiam. (2017) "Latent potential of microalgal biomass:

Research efforts and challenges" in *Waste Biomass Management–A Holistic Approach*. Springer International Publishing.

848. J.-S. Chang, **P.-L. Show**, T.-C. Ling, C.-Y. Chen, S.-H. Ho, C.-H. Tan, D. Nagarajan, W.-N. Phong. (2017) "Photobioreactors" in *Current Developments in Biotechnology and Bioengineering: Bioprocesses, Bioreactors and Controls*; <http://dx.doi.org/10.1016/B978-0-444-63663-8.00011-2>. Elsevier.

## 2016

849. Wai Yan Cheah, Tau Chuan Ling, **Pau Loke Show**, Joon Ching Juan, Jo-Shu Chang\*, Duu-Jong Lee. (2016) "Cultivation in wastewaters for energy: A microalgae platform" *Applied Energy*, 179, pp 609-625. [Accepted: 6 July 2016; IF: 7.182 (2016)]
850. Wai Yan Cheah, Tau Chuan Ling, Joon Ching Juan, Duu-Jong Lee, Jo-Shu Chang\*, **Pau Loke Show**. (2016) "Biorefineries of carbon dioxide: From carbon capture and storage (CCS) to bioenergies production" *Bioresource Technology*, 215, pp 346-356. [Accepted: 5 April 2016; IF: 5.651 (2016)]
851. Yoong Kit Leong, John Chi-Wei Lan, Hwei-San Loh, Tau Chuan Ling, Chien Wei Ooi, **Pau Loke Show\***. (2016) "Thermoseparating aqueous two-phase systems: Recent trends and mechanisms" *Journal of Separation Science*, 39(4), pp 640-647. [Accepted: 19 August 2015; IF: 2.557 (2016)]
852. Devamalini Rajagopalu, **Pau Loke Show**, Yee Shin Tan\*, Sekaran Muniandy, Vikineswary Sabaratnam, Tau Chuan Ling. (2016) "Recovery of laccase from processed *Hericium erinaceus* (Bull.: Fr) Pers. fruiting bodies in aqueous two-phase system" *Journal of Bioscience and Bioengineering*, 12(3), pp 301-306. [Accepted: 30 January 2016; IF: 2.24 (2016)]
853. Sze Ying Lee, Filipa A Vicente, João AP Coutinho, Ianatul Khoiroh, **Pau Loke Show**, Sónia PM Ventura\*. (2016) "Densities, viscosities, and refractive indexes of good's buffer ionic liquids" *Journal of Chemical & Engineering Data*, 61, pp 2260-2268. [Accepted: 20 May 2016; IF: 2.323 (2016)]
854. Yun-Tsun Lung, Chung Hong Tan, **Pau Loke Show\***, Tau Chuan Ling, John Chi-Wei Lan, Hon Loong Lam, Jo-Shu Chang. (2016) "Docosahexaenoic acid production from crude glycerol by *Schizochytrium limacinum* SR21" *Clean Technologies and Environmental Policy*, 18(7), pp 2209-2216. [Accepted: 10 February 2016; IF: 3.331 (2016)]
855. Win Nee Phong, Cheng Foh Le, **Pau Loke Show\***, Jo-Shu Chang, Tau Chuan Ling. (2016) "Extractive disruption process integration using ultrasonication and aqueous two-phase system for proteins recovery from *Chlorella sorokiniana*" *Engineering in Life Sciences*. [Accepted 8 September 2016; IF: 1.698 (2016)]
856. Win Nee Phong, Cheng Foh Le, **Pau Loke Show\***, Hon Loong Lam, Tau Chuan Ling. (2016) "Evaluation of Different Solvent Types on the Extraction of Proteins from Microalgae" *Chemical Engineering Transactions*, 52. 1063-1068.
857. Revathy Sankaran, **Pau Loke Show**, Jo-Shu Chang\*. (2016) "Biodiesel production using immobilized lipase: Feasibility and challenges" *Biofuels, bioproducts and biorefining*, 10, pp 896-916. [Accepted: 15 August 2016; IF: 4.416 (2016)]
858. Chung Hong Tan, Chun-Yen Chen, **Pau Loke Show**, Tau Chuan Ling, Hon Loong Lam, Duu-Jong Lee, Jo-Shu Chang\*. (2016) "Strategies for enhancing lipid production from indigenous microalgae isolates" *Journal of the Taiwan Institute of Chemical Engineers*, 6, pp 189-194. [Accepted: 25 February 2016; IF: 4.217 (2016)]

859. Pin Chong Wee, Chung Hong Tan, **Pau Loke Show\***, Hon Loong Lam, Mohamad Suffian bin Mohamad Anuar, Joon Ching Juan, Jo-Shu Chang, Tau Chuan Ling. (2016) "Efficient enzyme-catalysed transesterification of microalgal biomass from *Chlamydomonas* sp." *Energy*, 116, pp 1370–1373 [Accepted: 5 June 2016; IF: 4.52 (2016)]
860. Yin Hui Chow, Yee Jiun Yap, **Pau Loke Show**, Joon Ching Juan, Mohd Shamsul Anuar, Eng-Poh Ng, Chien-Wei Ooi, Tau Chuan Ling\*. (2016) "Characterization of partitioning behaviours of immunoglobulin G in polymer-salt aqueous two-phase systems" *Journal of Bioscience and Bioengineering*, 122(5), pp 613-619. [Accepted: 21 April 2016; IF: 2.24 (2016)]
861. Chun-Yen Chen, Pei-Chun Kao, Chung Hong Tan, **Pau Loke Show**, Tau Chuan Ling, Jo-Shu Chang\*. (2016) "Using an innovative pH-stat CO<sub>2</sub> feeding strategy to enhance cell growth and C-phycoerythrin production from *Spirulina platensis*" *Biochemical Engineering Journal*, 112, pp 78–85 [Accepted: 11 April 2016; IF: 2.892 (2016)]
862. Sze Ying Lee, Ianatul Khoiroh, Tau Chuan Ling, **Pau Loke Show\***. (2016) "Aqueous two-phase flotation for the recovery of biomolecules" *Separation & Purification Reviews*, 45(1), pp 81-92. [Accepted: 18 February 2016; IF: 6.077 (2016)]
863. Preshna Mathiazakan, Seah Yieng Shing, Sia Sin Ying, Heng Keng Kek, Malcolm SY Tang, **Pau Loke Show\***, Chien-Wei Ooi, Tau Chuan Ling. (2016) "Pilot-scale aqueous two-phase floatation for direct recovery of lipase derived from *Burkholderia cepacia* strain ST8" *Separation and Purification Technology*, 171, pp 206-213. [Accepted: 16 July 2016; IF: 3.359 (2016)]
864. Malcolm SY Tang, Eng-Poh Ng, Joon Ching Juan, Chien Wei Ooi, Tau Chuan Ling, Kai Lin Woon, **Pau Loke Show\***. (2016) "Metallic and semiconducting carbon nanotubes separation using an aqueous two-phase separation technique: A review" *Nanotechnology*, 27(33), pp 332002. [Accepted: 20 April 2016; IF: 3.44 (2016)]
865. Yoong Kit Leong, **Pau Loke Show\***, Heng Chou Lin, Chih Kai Chang, Hwei-San Loh, John Chi-Wei Lan, Tau Chuan Ling. (2016) "Preliminary integrated economic and environmental analysis of polyhydroxyalkanoates (PHAs) biosynthesis" *Bioresource and Bioprocessing*, 3(1), pp 41. [Accepted: 7 September 2016]
866. Chung Hong Tan, **Pau Loke Show\***, Ling Tau Chuan. (2016) "Genetic manipulation to increase lipase production in microorganisms – A recent review" *Current Biochemical Engineering*, 3, pp 1-9. [Accepted: 30 June 2016]
867. Sewn Cen Lo, Ramakrishnan Nagasundara Ramanan, Beng Ti Tey, Weng Siang Tan, **Pau Loke Show**, Tau Chuan Ling, Chien Wei Ooi\*. (2016) "A versatile and economical method for the release of recombinant proteins from *Escherichia coli* by 1-propanol cell disruption" *RSC advances*, 6(67), pp 62291-62297. [Accepted: 21 June 2016; IF: 3.108 (2016)]

## 2015

868. Wai Yan Cheah, **Pau Loke Show**, Jo-Shu Chang, Tau Chuan Ling, Joon Ching Juan\*. (2015) "Biosequestration of atmospheric CO<sub>2</sub> and flue gas-containing CO<sub>2</sub> by microalgae" *Bioresource Technology*, 184, pp 190-201. [Accepted 9 November 2015; IF: 5.651 (2016)]
869. Chung Hong Tan, **Pau Loke Show**, Jo-Shu Chang, Tau Chuan Ling, John Chi-Wei Lan\* (2015) "Novel approaches of producing bio-energies from microalgae: A recent review" *Biotechnology Advances*, 33(6), pp 1219–1227. [Accepted: 22 February 2015; IF: 10.597 (2016)]
870. Yin Hui Chow, Yee Jiun Yap, Chin Ping Tan, Mohd Shamsul Anuar, Bimo Ario Tejo, **Pau Loke Show**, Arbakariya Bin Ariff, Eng-Poh Ng, Tau Chuan Ling\*. (2015) "Characterization of bovine serum albumin partitioning behaviors in polymer-salt aqueous two-phase systems" *Journal of*

- Bioscience and Bioengineering, 120(1), pp 85-90. [Accepted: 26 November 2014; IF: 2.24 (2016)]
871. Chung Hong Tan, **Pau Loke Show\***, Chien Wei Ooi, Eng-Poh Ng, John Chi-Wei Lan, Tau Chuan Ling. (2015) "Novel lipase purification methods – A review of the latest developments" *Biotechnology Journal*, 10(1), pp 31-44. [Accepted: 28 August 2014; IF: 3.649 (2016)]
  872. **Pau-Loke Show**, Tau-Chuan Ling, John Chi-Wei Lan, Beng-Ti Tey, Ramakrishnan N Ramanan, Siek-Ting Yong, Chien-Wei Ooi\*. (2015) "Review of microbial lipase purification using aqueous two-phase systems" *Current Organic Chemistry*, 19(1), pp 19-29. [Accepted: 3 November 2014; IF: 1.924 (2016)]
  873. Yee Koon Yau, Chien Wei Ooi, Eng-Poh Ng, John Chi-Wei Lan, Tau Chuan Ling, **Pau Loke Show\***. (2015) "Current applications of different types of aqueous two-phase systems" *Bioresources and bioprocessing*, 2(1), pp 1-13. [Accepted: 13 December 2015]
  874. Sze Ying Lee, Filipa A Vicente, Francisca A e Silva, Tânia E Sintra, Mohamed Taha, Ianatul Khoiroh, João AP Coutinho, **Pau Loke Show**, Sónia PM Ventura\*. (2015) "Evaluating self-buffering ionic liquids for biotechnological applications" *ACS Sustainable Chemistry & Engineering*, 3(12), pp 3420-3428. [Published: 27 October 2015; IF: 5.951 (2016)]
  875. Chun-Yen Chen, Po-Jen Lee, Chung Hong Tan, Yung-Chung Lo, Chieh-Chen Huang, **Pau Loke Show**, Chih-Hung Lin, Jo-Shu Chang\*. (2015) "Improving protein production of indigenous microalga *Chlorella vulgaris* FSP-E by photobioreactor design and cultivation strategies" *Biotechnology Journal*, 10(6), pp 905-914. [Accepted: 8 April 2015; IF: 3.649 (2016)]
  876. Yun-Tsun Lung, Chung Hong Tan, **Pau Loke Show\***, Hon Loong Lam, John Chi-Wei Lan. (2015) "Docosahexaenoic acid production from crude glycerol by *Schizochytrium limacinum* SR21" *Chemical Engineering Transactions*, 45, pp 967-972. [Accepted: 2015; IF: 0.82 (2016)]
  877. Yu Kiat Lin, **Pau Loke Show**, Yee Jiun Yap, Chin Ping Tan, Eng-Poh Ng, Arbakariya B Ariff, Mohamad Suffian B Mohamad Anuar, Tau Chuan Ling\*. (2015) "Direct recovery of cyclodextrin glycosyltransferase from *Bacillus cereus* using aqueous two-phase flotation" *Journal of Bioscience and Bioengineering*, 120 (6), pp 684-689. [Accepted: 18 April 2015; IF: 2.24 (2016)]
  878. **Pau Loke Show\***, Kehinde Opeyemi Oladele, Qi Yan Siew, Fitri Abdul Aziz Zakry, John Chi-Wei Lan, Tau Chuan Ling. (2015) "Overview of citric acid production from *Aspergillus niger*" *Frontiers in Life Sciences*, 8(3), pp 271-283. [Accepted: 21 March 2015; IF: 0.93 (2016)]
  879. Yu Kiat Lin, **Pau Loke Show**, Yee Jiun Yap, Arbakariya B Ariff, Mohammad Suffian Mohammad Anuar, Oi Ming Lai, Teck Kim Tang, Joon Ching Juan, Tau Chuan Ling\*. (2015) "Production of  $\gamma$ -cyclodextrin by *Bacillus cereus* cyclodextrin glycosyltransferase using extractive bioconversion in polymer-salt aqueous two-phase system" *Journal of Bioscience and Bioengineering*, 121(6), pp 692-696. [Accepted: 4 November 2015; IF: 2.240 (2016)]
  880. Pey Ling Chew, Mohamad Suffian Mohammad Anuar, **Pau Loke Show**, Tau Chuan Ling\*. (2015) "Extractive bioconversion of poly- $\epsilon$ -caprolactone by *Burkholderia cepacia* lipase in an aqueous two-phase system" *Biochemical Engineering Journal*, 101, pp 9-17. [Accepted: 21 April 2015; IF: 2.892 (2016)]
  881. Chung Hong Tan, Wai Yan Cheah, Tau Chuan Ling, **Pau Loke Show\***, Joon Ching Juan, Jo-Shu Chang. (2015) "Algae cultivation in wastewater for biodiesel – A review" *Chemical Engineering Transactions*, 45, pp 1393-1398. [Accepted: 2015; IF: 0.82 (2016)]
  882. Yoong Kit Leong, Fazali Edward Koroh, **Pau Loke Show\***, John Chi-Wei Lan, Hwei-San Loh. (2015) "Optimisation of extractive bioconversion for green polymer via aqueous two-phase system" *Chemical Engineering Transactions*, 45, pp 1495-1500. [Accepted: 2015; IF: 0.82 (2016)]

883. Sewn Cen Lo, Ramakrishnan Nagasundara Ramanan, Beng Ti Tey, Tau Chuan Ling, **Pau Loke Show**, Chien Wei Ooi\*. (2015) "Liquid-liquid equilibrium of alcohols+ammonium/potassium/sodium acetate + water systems: Experimental and correlation" *Journal of Chemical & Engineering Data*, 60(10), pp 2848-2857. [Accepted: 19 August 2015; IF: 2.323 (2016)]
884. Yuh Xiu Liew, Yi Jing Chan\*, **Pau Loke Show**, Sivakumar Manickam, Mei Fong Chong. (2015) "Optimization of alkaline lipase production from *Burkholderia cepacia* through submerged fermentation" *Chemical Engineering Transactions*, 45, pp 1675-1680. [Accepted: 2015; IF: 0.82 (2016)]
885. Sze Ying Lee, Fitri Abdul Aziz Zakry, **Pau Loke Show\***. (2015) "Optimisation of citric acid production from a novel strain of *Aspergillus niger* by submerged fermentation" *Chemical Engineering Transactions*, 45, pp 1501-1506. [Accepted: 2015; IF: 0.82 (2016)]
886. Wan Yi Choy, Chok Yau Chung, Pei Zhi Lim, Videsh A/L Sagindharan, Sze Ying Lee, **Pau Loke Show\***, Hon Loong Lam. (2015) "Aqueous two-phase flotation for extraction of andrographolide from *Andrographis paniculata*" *Chemical Engineering Transactions*, 45, pp 1075-1080. [Accepted: 2015; IF: 0.82 (2016)]
887. Yoong Kit Leong, **Pau Loke Show\***, John Chi-Wei Lan, Hwei-San Loh. (2015) "Thermoseparating aqueous two-phase system: Recent trends and applications." *Chemical engineering transactions*, 45, pp 1249-1254. [Accepted: 2015; IF: 0.82 (2016)]
888. Ching Lik Hii, Sachin Vinayak Jangam, Sze Pheng Ong, **Pau Loke Show**, Arun Sadashiv Mujumdar. (2015) "Food processing technologies" in *Processing of Foods, Vegetables and Fruits: Recent advances*. Taylor & Francis Online.
889. Win Nee Phong, **Pau Loke Show**, Tau Chuan Ling. (2015) "Fermentation in food processing" in *Processing of Foods, Vegetables and Fruits: Recent advances*. Taylor & Francis Online.

## 2014

890. Yoong Kit Leong, **Pau Loke Show**, Chien Wei Ooi, Tau Chuan Ling, John Chi-Wei Lan\*. (2014) "Current trends in polyhydroxyalkanoates (PHAs) biosynthesis: insights from the recombinant *Escherichia coli*" *Journal of Biotechnology*, 180, pp 52-65. [Accepted: 11 March 2014; IF: 2.599 (2016)]
891. Zatul Iffah Mohd Arshad, Azura Amid\*, Faridah Yusof, Irwandi Jaswir, Kausar Ahmad, **Pau Loke Show**. (2014) "Bromelain: an overview of industrial application and purification strategies" *Applied Microbiology and Biotechnology*, 98(17), pp 7283-7297. [Accepted 10 June 2014; IF: 3.42 (2016)]
892. Malcolm SY Tang, **Pau Loke Show**, Yu Kiat Lin, Kai Lin Woon, Chin Ping Tan, Tau Chuan Ling\*. (2014) "Separation of single-walled carbon nanotubes using aqueous two-phase system" *Separation and Purification Technology*, 125, pp 136-141. [Accepted 26 January 2014; IF: 3.359 (2016)]
893. Hui Suan Ng, Chien Wei Oi, **Pau Loke Show**, Chin Ping Tan, Arbakariya Ariff, Mohd Noriznan Moktar, Eng-Poh Ng, Tau Chuan Ling\*. (2014) "Recovery of *Bacillus cereus* cyclodextrin glycosyltransferase using ionic liquid-based aqueous two-phase system" *Separation and Purification Technology*, 138, pp 28-33. [Accepted: 27 September 2014; IF: 3.359 (2016)]

## 2013

894. **Pau Loke Show\***, Chien Wei Ooi, Mohd Shamsul Anuar, Arbakariya Ariff, Yus Aniza Yusof, Soo Kien Chen, Mohamad Suffian Mohamad Annuar, Tau Chuan Ling. (2013) "Recovery of lipase derived from *Burkholderia cenocepacia* ST8 using sustainable aqueous two-phase flotation composed of recycling hydrophilic organic solvent and inorganic salt" *Separation and Purification Technology*, 110, pp 112-118. [Accepted: 8 March 2013; IF: 3.359 (2016)]
895. Yu Kiat Lin, Chien Wei Ooi, Joo Shun Tan, **Pau Loke Show**, Arbakariya Ariff, Tau Chuan Ling\*. (2013) "Recovery of human interferon alpha-2b from recombinant *Escherichia coli* using alcohol/salt-based aqueous two-phase systems" *Separation and Purification Technology*, 120, pp 362-366. [Accepted: 29 September 2013; IF: 3.359 (2016)]
896. Yin Hui Chow, Yee Jiun Yap, Mohd Shamsul Anuar, Bimo Ario Tejo, Arbakariya Ariff, **Pau Loke Show**, Eng-Poh Ng, Tau Chuan Ling\*. (2013) "Interfacial partitioning behaviour of bovine serum albumin in polymer-salt aqueous two-phase system" *Journal of Chromatography B*, 934, pp 71-78. [Accepted: 30 June 2013; IF: 2.603 (2016)]
897. Hui Shan Ng, Chien Wei Ooi, Mohd Noriznan Mokhtar, **Pau Loke Show**, Arbakariya Ariff, Jo Shun Tan, Eng-Poh Ng, Tau Chuan Ling\*. (2013) "Extractive bioconversion of cyclodextrins by *Bacillus cereus* cyclodextrin glycosyltransferase in the aqueous two-phase system" *Bioresource Technology*, 142, pp 723-726. [Accepted: 23 May 2013; IF: 5.651 (2016)]
898. Malcolm SY Tang, TJ Whitcher, KH Yeoh, CL Chua, KL Woon\*, **PL Show**, YK Lin, TC Ling. (2013) "The removal of metallic single-walled carbon nanotubes using an aqueous two-phase system" *Journal of Nanoscience and Nanotechnology*, 13, pp 1-5. [Accepted: 22 July 2013; IF: 1.483 (2016)]

## 2012

899. **Pau Loke Show**, Chin Ping Tan, Mohd Shamsul Anuar, Arbakariya Ariff, Yus Aniza Yusof, Soo Kien chen, Tau Chuan Ling\*. (2012) "Primary recovery of lipase derived from *Burkholderia cenocepacia* strain ST8 and recycling of phase components in an aqueous two-phase system" *Biochemical Engineering Journal*, 60, pp 74-80. [Accepted: 14 October 2011; IF: 2.892 (2016)]
900. **Pau Loke Show**, Chin Ping Tan, Mohd Shamsul Anuar, Arbakariya Ariff, Yus Aniza Yusof, Soo Kien Chen, Tau Chuan Ling\*. (2012) "Extractive fermentation for improved production and recovery of lipase derived from *Burkholderia cepacia* using a thermoseparating polymer in aqueous two-phase systems" *Bioresource Technology*, 116, pp 226-233. [Accepted: 29 September 2011; IF: 5.651 (2016)]
901. **Pau Loke Show**. (2012) "Recovery of lipase from *Burkholderia* sp. using aqueous two-phase systems

## 2011

902. **Pau Loke Show**, Chin Ping Tan, Mohd Shamsul Anuar, Arbakariya Ariff, Yus Aniza Yusof, Soo Kien Chen, Tau Chuan Ling\*. (2011) "Direct recovery of lipase derived from *Burkholderia cepacia* in recycling aqueous two-phase flotation" *Separation and Purification Technology*, 80(3), pp 577-584. [Accepted: 9 June 2011; IF: 3.359 (2016)]