



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



[Group Website](#)



[Linked-in](#)



[ORCID](#)



[Scopus](#)



[Google Scholar](#)



[Publons](#)



[Research Gate](#)

**Professor Ir. Ts. Dr. Pau-Loke Show** is currently a Full Professor in the Department of Chemical and Petroleum Engineering at Khalifa University, Abu Dhabi, United Arab Emirates. He is also affiliated with the University of Nottingham Malaysia, where he serves as a Professor of Biochemical Engineering in the Department of Chemical and Environmental Engineering, Faculty of Science and Engineering. Additionally, he was the founding Co-Director of Future Food Malaysia, Beacon of Excellence, and the Director of the Sustainable Food Processing Research Centre. He also 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 after completing his bachelor's degree at Universiti Putra Malaysia. He was elected as a Fellow of the Institution of Chemical Engineers (FIChemE) and is a Professional Engineer (PEng) registered with the Board of Engineers Malaysia (BEM). He is also a Chartered Engineer (CEng) of 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, Prof. Show 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 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 over 45 PhD and MSc students and currently leads a research team of 30 members, comprising postdoctoral researchers, PhD candidates, and MSc students. To date, Prof.

Show has published over 550 journal articles, which have collectively garnered more than 53,000 citations over the past 15 years, resulting in an h-index exceeding 114. These achievements place him as the top-ranked leader in his fields of expertise, including Microalgae Technology and Food Engineering, according to Google Scholar metrics. Additionally, he has served as the Principal Investigator for over 35 international, national, and industry-funded projects, with a combined funding value exceeding 5 million.

Prof. Show is actively engaged in academic publishing and currently serves as the 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 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.

Prof. Show is an active 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 awards such as the Top 1% Global Peer Reviewer 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.

Prof. Ir. Ts. Dr. Pau-Loke Show continues to make significant contributions to the fields of biochemical engineering, microalgae technology, and sustainable food processing, while maintaining his position as a global leader in academic research and innovation.

## 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  
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Email: [PauLoke.Show@ku.ac.ae](mailto:PauLoke.Show@ku.ac.ae) ; [PauLoke.Show@nottingham.edu.my](mailto:PauLoke.Show@nottingham.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 (FIChemE), 99960109

## International & Local (Malaysia) Appointment & Affiliation

2023 – date	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 – 114 (Google Scholar)

**Citations** - ~ **52,122**

## 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– Present) 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 – Present)
2. Sustainable Chemistry One World (Oct 2023-Present)
3. Environmental Science and Ecotechnology (Dec 2019 -Present)
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)

**Regular Reviewers:** 255 ISI Journals - 3544 reviewer tasks completed

**Regular handling editors:** 45 ISI Journals – 1917 editor tasks completed

**Verified by Publon:** <https://publons.com/researcher/1344183/pau-loke-show/>

## **Professional Services and Experience**

1. Promotion, Publicity & Sponsorship Team, The 5<sup>th</sup> Asian Federation of Biotechnology Malaysia Chapter International Symposium 2023, Malaysia
2. Judge for Young Researcher Session, The 5<sup>th</sup> Asian Federation of Biotechnology Malaysia Chapter International Symposium 2023, Malaysia

3. Evaluation Panel, Research and Postgraduate Centre 2023 (RPC) of Xiamen University Malaysia (XMUM), Malaysia
4. Panel, Engineering Accreditation Council, Malaysia
5. Panel, Engineering Technology Accreditation Council, Malaysia
6. Grant Panel, Swiss National Science Foundation
7. Grant Panel, Dhofar University Grant Panel,
8. Grant Panel, Poland's National Science Centre
9. Grant Panel, National Foundation for Science and Technology Development (NAFOSTED), Vietnam
10. Grant Panel, Kazakhstan Ministry of Education & Science
11. Grant Panel, Hungary's National Research, Development & Innovation Office
12. Grant Panel, National Center of Science and Technology Evaluation JSC
13. Grant Panel, Science Connect
14. Grant Panel, Omar National Foundation
15. Grant Panel, Agency for Science, Technology and Research (A\*STAR), Singapore
16. External Examiner, Universiti Sains Malaysia, Malaysia
17. External Examiner, Visvesvaraya Technological University, India
18. External Examiner, Universiti Putra Malaysia, Malaysia
19. External Examiner, University of Malaya, Malaysia
20. External Examiner, Indian Institute of Information Technology, Allahabad, India
21. External Examiner, University of Technology Sydney, Australia
22. External Examiner, Nanyang Technology University, Singapore
23. External Examiner, Savitribai Phule Pune University, India
24. External Examiner, University of Waikato, New Zealand
25. External Examiner, UCSI University, Malaysia
26. External Examiner, Anna University Chennai, India
27. External Examiner, Universiti Teknologi PETRONAS, Malaysia
28. External Examiner, Monash University, Australia
29. External Examiner, Vellore Institute of Technology (VIT) University, India
30. External Examiner, Monash Sunway University, Malaysia
31. External Examiner, National Institute Of Technology Warangal, India
32. External Examiner, Indian Institute of Information Technology, Allahabad, India
33. External Examiner, University of Science & Technology Murthal (Sonepat) – Haryana, India
34. External Examiner, University of Boras, Sweden
35. External Examiner, Nanyang Technology University, Singapore
36. External Examiner, Alagappa University, Cairo University, Faculty of Science, Cairo
37. External Examiner, University of Technology Sydney, Australia.
38. External Examiner, University of Waikato, New Zealand.
39. Judge, Human Life Advancement Foundation
40. Judge, Regional Chemical Engineering Undergraduate Conference (RCEUC)
41. Evaluation Panel, National Research Grant Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education Malaysia
42. Evaluation Panel, National Research Grant, MRUN Young Researchers Grant Scheme (MY-RGS), Ministry of Higher Education Malaysia
43. Evaluation Panel, National Research Grant, Prototype Research Grant Scheme (PRGS), Ministry of Higher Education Malaysia
44. Academic Promotion Evaluator, University of Jeddah, Kingdom of Saudi Arabia

45. Judge, 7<sup>th</sup> Southeast Asian Agricultural Engineering Student Chapter Annual Regional Convention 2021, Universiti Putra Malaysia
46. Judge, 3 Minutes Poster Session 2 at the AFOB-Malaysia Chapter International Symposium 2021, held between 22nd – 23rd September 2021 in Malaysia
47. 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
48. Book Reviewer, Taylor & Francis Group
49. Promotion Panel, King Saud University, KSA
50. Promotion Panel, Monash University, Malaysia
51. Promotion Panel, Universiti Teknologi Brunei, Brunei
52. Permanent Committee for Academic Promotion, University of Jeddah, Ministry of Education, KSA
53. Academic Promotion Committee, University of Bahrain, Bahrain
54. International Advisory Board, The 6th Research, Invention, and Innovation Congress (RI2C 2025)

### Theses evaluated

1. 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
2. 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
3. Integrated Oil Emulsion-Ionic Liquid Air Flotation for Microalgae Harvesting, DOCTOR OF PHILOSOPHY  
Candidate : IAN DARYL STA MARIA  
Institution : Monash University  
Year : 2024
4. Production, Characterization And Optimization 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
5. Regular Wave-induced Sloshing Of floating Photobioreactor In Microalgae Cultivation, DOCTOR OF PHILOSOPHY  
Candidate : KHOR WEI HAN  
Institution : UNIVERSITI TEKNOLOGI MALAYSIA  
Year : 2024

6. 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. Reviewer Certificate for serving as a reviewer for Food Science & Nutrition 2024
2. Reviewer Certificate for serving as a reviewer for Innovative Technology and Management Journal (ITMJ)
3. Reviewer Certificate for serving as a reviewer for ACS Publications 2024
4. Top Reviewer Award for Process Safety and Environmental Protection, 2024
5. Stanford/Elsevier Top 2% Scientists List 2020 - 2024
6. Ranked #1 in Malaysian & Ranked #28 in the World Ranking Rising Star of Science Award 2024 from Research.com
7. Ranked #1 in Malaysian & Ranked #3396 in the World Ranking Biology and Biochemistry Leader Award 2024 from Research.com
8. Ranked #6 in Malaysian & Ranked #310 in the World Ranking Engineering and Technology Leader Award 2024 from Research.com
9. Research.com Biology and Biochemistry in Malaysia Leader Award, 2023.
10. Research.com Rising Star of Science Award, 2023.
11. Young Asian Biotechnologist Prize 2023, Society for Biotechnology, Japan (SBJ).
12. Reviewer Certificate for serving as a reviewer for the International Journal of Food Science & Technology, 2022.
13. Reviewer Certificate for serving as a reviewer for AIChE Journal, 2022.
14. Reviewer Certificate for serving as a reviewer for Biotechnology Progress, 2022.
15. Reviewer Certificate for serving as a reviewer for ChemCatChem, 2022.
16. Reviewer Certificate for serving as a reviewer for Advanced Sustainable Systems, 2022.
17. Highly Cited Researcher 2022 (top 1% for field and year in Biology and Biochemistry), Clarivate 2022
18. 236 in the world and 2 in Malaysia, Best Rising Stars of Science in the World - 2022 Ranking
19. Ten Outstanding Young Malaysian Award 2022
20. Highly Cited Researcher 2022
21. Outstanding Research Supervisor Award 2022, University of Nottingham, UK
22. UNM Faculty of Science and Engineering Professional Outreach and External Engagement Award
23. UNM Faculty of Science and Engineering Research Publication Award 2020
24. Top Cited Article Year 2020-2021 from WILEY in International Journal of Energy Research
25. Top 3 winner, Malaysia National Kesum Initiative 2022
26. Rank Top #1 in Malaysia number of publications in ISI, Scopus 2020-2021
27. 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.
28. Certificate of Appreciation, Jury of 2021 APEC-ACABT Green Synergy Solutions for Green Energy
29. Outstanding Reviewer for Environmental Technology & Innovation 2021



30. Certificate as World Class Professor in recognition of his distinguished contribution to the success of the World Class Professor Program 2021
31. Certificate of Appreciation, Virtual International Faculty Development Programme, Sri Sivasubramaniya Nadar College of Engineering, 18th-27th November 2021
32. Certificate of Appreciation, Webinar on Translating Thesis and Dissertation to IMRAD Format Publication in High-Impact Journal, 24 November 2021
33. Finalist in the Biochemical Engineering 2021 IChemE Global Awards
34. Winner, Tan Sri Emeritus Professor Augustine S H Ong International Special Award on Innovations and Inventions in Palm Oil
35. Winner, 2020 Outstanding Reviewer in Water Environment Research
36. Winner, Top 2% of World Top Scientists in The Stanford List 2020
37. Winner, APEC Science Prize for Innovation, Research and Education (ASPIRE) Malaysia Award 2020
38. Most Read and Top Download Paper 2018-2019 Award from Wiley
39. Winner of National Young Scientists Award, Malaysia 2019
40. Vice Chancellor Award, University of Nottingham, 2019
41. Global Top Peer Reviewer Awards in Engineering 2019
42. Global Top Peer Reviewer Awards in Cross-Field 2019
43. Global Top Peer Reviewer Awards Chemistry 2019
44. Global Top Peer Reviewer Awards in Biology and Biochemistry 2019
45. Global Top Peer Reviewer Awards in Agricultural Sciences 2019
46. 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
47. Best paper award in BioTech International Conference, 2014, Prague, Czech Republic, 6<sup>th</sup> – 8<sup>th</sup> Jun 2014
48. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2012
49. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2013
50. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2014
51. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2015
52. UNM Research Award (Gold), Faculty of Engineering, 2016
53. UNM Research Award (Gold), Faculty of Engineering, 2017
54. UNM Research Award (Gold), Faculty of Engineering, 2018
55. UNM Research Award (Gold), Faculty of Engineering, 2019
56. UNM Research Award (Gold), Faculty of Engineering, 2020
57. Rank #1 in the world of top Biology & Biochemistry reviewer from Publons' Global Peer Review Award 2018
58. First Malaysian won The DaSilva Award 2018 from the Society for Biotechnology, Japan
59. Finalist (Top 3) in Nanotechnology Young Researcher Award 2018 from Nanotechnology, IOP Publishing
60. ASEAN-India Research Training Fellowship (AI-RTF) 2018
61. Outstanding Paper Award 2018, Springer
62. JSPS Fellowship 2018 from Japan Society for the Promotion of Science, Japan

63. Bioresource Technology, Elsevier, Top Reviewer Award 2017
64. Silver Award, International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA) 2017, Terengganu, Malaysia
65. Top 100 Asian Scientists 2017
66. Asia's Rising Scientists Award 2017
67. Invited Speaker, 2017 BEST Conference and International Symposium on Biotechnology
68. Winner, Young Researcher Award, IChemE Malaysia Award 2016
69. Highly Cited Paper of the Year Award, Biotechnology Journal 2016
70. Highly Commended, Young Researcher Award, IChemE Global Award 2015
71. Silver Award, Invention, Innovation & Design Exposition (IIDEX) 2015, Universiti Teknologi MARA (UiTM) Shah Alam
72. Best paper award, BioTech Conference 2015, Prague
73. Platinum Research Award, Research Division (Year 2012, 2013, 2014 and 2015)
74. Gold, Publication Award, Faculty (Year 2016 and 2017)
75. School of Graduate Inaugural Stories for Inspiration, May 2012
76. Best scores in the Faculty for the Top 5 University Student Evaluation Teaching (SET) below 1.5 (Autumn 2011/2012)
77. 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
4. Organising Secretary, 3<sup>rd</sup> Postgraduate Colloquium for Environmental Research (POCER) 2013
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 7<sup>th</sup> 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. Distinguished speaker for International Symposium on Advanced Manufacturing for Polymeric Materials (AMPM'24), Bangkok, Thailand, 24th May 2024
2. 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.
3. Keynote Speaker, Asian Regional Symposium (ARS2024) to be held at Pakistan Academy of

Science, Islamabad, Pakistan, November 24-27, 2024

4. Invited Speaker, Nexus Summit 2024: Sustainability in a Changing World (NEXSUM2024), Universiti Malaysia Terengganu in Malaysia from July 24 to 27, 2024
5. Invited Speaker, Science Talk, Xi'an Jiaotong-Liverpool University, China, 3<sup>rd</sup> April 2024
6. 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
7. 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.
8. Invited Speaker, International Conference on Advanced Bioprocessing Technologies for Biomass Conversion: Sustainability and Bioresource Management (XI IBA-IFIBiop, 2024), 1-6 December 2024
9. 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
10. Invited Speaker, 3rd International Symposium On Carbon & Functional Materials For Energy & Environment, Danang, Vietnam, 22-25 Feb 2024
11. Invited Speaker, International Colloquium of Microalgae & Diatom Research, Liquid Trees, 8<sup>th</sup> May 2024.
12. Invited Speaker, International Symposium on Advances in Algal Research, 12-14 Feb 2023, organised by IIT Guwahati, India
13. Keynote Speaker, 9th Mathematics, Science, and Computer Science Education International Seminar (MSCEIS) 2023, October 21st 2023, at the éL Royale Hotel Bandung, Indonesia.
14. Invited Speaker, Research Seminar University of Technology Sydney (UTS), 13 June 2023,
15. Guest lecture, Recent Progress in Microalgae Technology, Chongqing University, China, Dec 2023
16. Invited Talk, China Ocean University, Qingdao, China, Dec 2023
17. World Class Professor Talk, Bandung, Indonesia, Oct-Nov, 2023
18. Invited Speaker, Introduction to Microalgae Research. SAKURA Japan. Nov, 2023
19. Invited speaker, Application of AI in microalgae cultivation, Jiangnan University, Wuxi, China, Dec 2023
20. Keynote talk, International Conference of Natural Resources and Environment, Northwest A&F University, China, Dec 2023
21. Keynote talk, Miracle Between Microalgae, BrainLink X-Lab Day, Korea, Dec 2023
22. Invited talk, The Future of Algae & Food, Swinburne University, Feb 2023
23. Winner Talk, Young Asian Biotechnologist Prize 2023, Society for Biotechnology, Japan, Sept 2023
24. Invited Talk, Latest Development of Microalgae Biorefinery, Sri Sivasubramaniya Nadar College of Engineering, India, 2023
25. Keynote Speaker, Latest developments of biorefinery technology in the bioenergy industry, APEC conference, Taiwan, 2023

26. HiCoE, Webinar Series, Advances in Algae-Based Biofuels, Universiti Teknologi Petronas, 2/2023
27. Invited Talk, Recent Progress in Microalgae Technology, AAR 2023 at IIT Guwahati, 2023
28. Invited Speaker, Kunita Overseas Research Grant (KORG) Webinar May 6<sup>th</sup>, 2023
29. Invited Speaker, IOT in Microalgae Biorefinery, UTS, Australia, May 2023
30. Invited Talk, Microalgae Biorefinery Technology, iNEEBA 2023
31. Invited Speaker, Latest Technology in Microalgae Research, Boras University, May 2023
32. Invited Talk, New Technology in Microalgae Bioengineering, NHBT 2023 Trivandrum
33. Keynote speaker, The 1st Middle East Chemical Engineering Symposium. October 2023.
34. Invited Speaker, "Latest Development In Microalgae Biorefinery" C3 seminar. 13 Jun 2023.
35. Invited Speaker, International Conference on Sustainable Water Management and Resource Recovery 2023
36. Invited Speaker, AI in Microalgae, UNIVERSITY DIPONEGORO, 2023
37. Invited Speaker, International Thematic Lecture Series 5 "Current Research & Technology Applied on Microalgae". 23 May 2023.
38. Invited Speaker, International Conference on Sustainable Waste Management and Resource Recovery 2023. 15 April 2023.
39. Guest Speaker, Research Supervisor Series: Managing Research Students' Progression, UNM. 28 October 2022.
40. Keynote Speaker and session chair, ABBS-International Conference on Biohydrogen and Bioprocesses 2022. 2-4 Dec 2022.
41. Keynote Speaker, The 4<sup>th</sup> Asian Federation of Biotechnology Malaysia Chapter International Symposium 2022. 18-21, September 2022.
42. Participant, Meet in Malaysia @ Malaysia Business Events Week 2022, 29&30th August, 2022.
43. Chief Guest & Invited Speaker, 3rd International Virtual Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE-2022, 15 and 16th September 2022
44. Keynote Speaker, International Conference on Environment, Sustainability Issues, and Community Development (INCRID), 1<sup>st</sup> Sep 2022.
45. 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 15<sup>th</sup> – 21<sup>st</sup> 2022.
46. Keynote Speaker and Judge, Monash Science Symposium 2022 with the theme "Symbiosis: Exploring Extraordinary Possibilities", 13 to 15 July 2022.
47. Chaperone, 8<sup>th</sup> International Biotechnology Competition and Exhibition 2022 (IBCEx'22), 15<sup>th</sup> & 16<sup>th</sup> April 2022
48. Keynote Speaker, International Conference on Environmental Science and Green Technology (IC-EGT 2022), 14<sup>th</sup> & 15<sup>th</sup> March 2022
49. Keynote Speaker, 3<sup>rd</sup> International Conference on Recent Advances in Bio-Energy Research (ICRABR-2022)
50. Keynote Speaker, ICEGT 2022, MJIT
51. Plenary Speaker, VI International Conference on Sustainable Energy and Environmental Challenges (VI SEEC), 2021
52. Invited Speaker, American Society for Microbiology, Maduriakamaraj University, 8<sup>th</sup> July 2021
53. Guest Speaker, International e-Lecture Workshop on the Innovations in Biotechnology, 19<sup>th</sup> & 20<sup>th</sup> January 2021
54. Online Speaker, The Institution of Engineers, Malaysia (Penang Branch), 11<sup>th</sup> January 2022, Title of Presentation: A New Microalgae Biorefinery Technology for Circular Bioeconomy –

Internet of Things Liquid Biphasic System

55. Technical Committee, 33<sup>rd</sup> Symposium of Malaysian Chemical Engineers (SOMChE) 2022, 8<sup>th</sup> & 9<sup>th</sup> August 2022
56. Chief Guest and Keynote Speaker, 1st International Conference on WATER, ENERGY & ENVIRONMENT [WEECON 2021], 23<sup>rd</sup> & 24<sup>th</sup> Dec 2021
57. 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."
58. Keynote Speech, Mahidol University, Thailand 2021
59. Keynote Speaker, IoT in Microalgae Biorefinery, World Class Professor 2021, Universitas Pendidikan Indonesia, Bandung-Indonesia
60. Plenary Speaker, 2021 GNU Chemistry Summer School, Gyeongsang National University, Korea, 2<sup>nd</sup> Aug 2021
61. Plenary Speaker, Department of Microbiology of Madras Christian College, Chennai, India, 26 July 2021
62. Keynote Speech, International Virtual Conference on Advances in Chemistry and Materials 2021, 21 June 2021
63. 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
64. 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.
65. Keynote Speaker, Synthetic Biology: from lab to industry" between 27-29th September 2021. Indrashil University, Rajpur, Mehsana, India.
66. Plenary Talk, AI in Microalgae Technology, Madurai Kamaraj University, India, 6<sup>th</sup> July 2021
67. 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
68. Keynote Speaker, The Future of Biochemical Engineering, World Class Professor 2021, Universitas Pendidikan Indonesia, Bandung-Indonesia
69. Keynote Talk, International Virtual Conference on Advances in Chemistry and Materials 2021, 21<sup>st</sup> July 2021
70. Invited Speaker, Summer School 2021, University Diponegoro, Indonesia
71. Invited Spacer, Indo-South Korea International e-Conference on Nanoscience and Nanotechnology for Energy, Environment and Biomedical Applications (iNEEBA2021) 07-08 October 2021
72. Keynote Speaker, at the AFOB-Malaysia Chapter International Symposium 2021 held between 22<sup>nd</sup> – 23<sup>rd</sup> September 2021 in Malaysia
73. Invited Talk, International Conference on Biotechnology for Resource Efficiency, Energy, Environment, Chemicals and Health (BREACH-2021) during December 1-4, 2021
74. Invited Talk, International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), April 04-08, 2021
75. Invited Talk, The International Conference on Sustainable Waste Treatment and Management (2<sup>nd</sup> SWTM-2021).
76. Plenary Speaker, International Conference on Sustainable Technology and Development 2021
77. Keynote Talk, Latest Developments of Algal Biorefinery, Kobe University, 7<sup>th</sup> July 2021

78. Plenary Speech, Microalgae Research in Malaysia, KL Tower for Sabah Meeting, 2<sup>nd</sup> April 2021
79. Invited Speaker, Sharing on Fundamental Research Grant Scheme (FRGS) University College of Technology Sarawak, 30<sup>th</sup> June 2021
80. Invited Speaker, How to manage & monitor your FRGS effectively? Xiamen University Malaysia, 6<sup>th</sup> May 2021
81. Plenary Speaker, Introduction to Scientific Paper, World Class Professor 2021, Universitas Pendidikan Indonesia, Bandung-Indonesia
82. 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
83. 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.
84. Distinguished Guest Speaker, How to effectively write an excellent thesis? Xiamen University Malaysia, 15<sup>th</sup> April 2021
85. 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.
86. Invited Speaker, The Importance and Future of Biochemical Engineering, Diversifying Curriculum Forum, IChemE Heads of Chemical Engineering UK, 16<sup>th</sup> February 2021
87. Keynote Talk, 4<sup>th</sup> International STEAM (Science, Technology, Engineering, Agri-Fisheries, and Mathematics) Research Congress, Philippine, February 3-4, 2021
88. Keynote Talk, The Importance of Biochemical Engineering, 11<sup>th</sup> Green Sustainable Biotechnology Symposium, Taiwan, Jan 2021
89. 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
90. Invited Speaker, 11<sup>th</sup> Green Sustainable Biotechnology Symposium 2021, Taiwan
91. 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
92. Invited Speaker, Tips for Malaysia Grant 2021, University of Technology Sarawak
93. 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
94. Invited Speaker, Diversifying Curriculum Forum 2021, IChmeE, UK
95. Invited Talk, Latest developments of biorefinery in the biomanufacturing industry, IChemE Webniar, UK, 26<sup>th</sup> June 2020
96. 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.
97. Invited Speaker, Latest developments of biorefinery in the biotech industry, IChemE Summit, Australia, 13<sup>th</sup> July 2020.
98. Invited Talk, Latest Developments of Biorefinery in the Microalgae Research, Universiti Petronas Malaysia, 30<sup>th</sup> July 2020
99. Invited Talk, Latest developments of biorefinery technology in the bioenergy industry, Universiti of Malaya 22<sup>nd</sup> Oct 2020
100. Plenary Talk, Application of Ionic Liquid in Bioprocessing Engineering, Biochemical Frontier

ZJU-UNM Virtual Doctoral Forum 2020, China, Aug 2020

101. 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.
102. Plenary Talk, Latest development Algae biorefinery from waste to bioenergy, School of Municipal and Environmental Engineering, Harbin Institute of Technology, Jan 2020
103. Plenary Talk, Sustainable Bioseparation Method\_Green Liquid Biphasic System, Department of Environmental Science and Technology, Harbin Institute of Technology, Jan 2020
104. 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
105. Invited Speaker, Biochemical Frontier, Zhejiang – University of Nottingham Malaysia Doctoral Forum 2020.
106. Invited Speaker, Managing Malaysia Grants 2020, Xiamen University, Malaysia.
107. Invited Speaker, Upstream Bioprocessing Engineering, Universiti of Malaya, 31st Oct 2019
108. Invited Speaker, Downstream Bioprocessing Engineering, Universiti of Malaya, 31<sup>st</sup> Sept 2019
109. Invited Speaker, Maintaining Momentum to Ensure Success Session, University of Nottingham, 4th Sep 2019
110. Invited Speaker, Liquid Biphasic System, Kobe University, Japan, 11th Oct 2019
111. Invited Speaker, Recent Development in Bioprocessing Engineering, Ocean University of China, 7th May 2019
112. Invited Speaker, Liquid-Liquid Separation, Wuhan University, China, 14th May 2019
113. Invited Speaker, Two-Phase System, Zhejiang University, China, 16th May 2019
114. Invited Speaker, Bioseparation Engineering, Nanjing University, China, 17th May 2019
115. Invited Speaker, Application of Liquid Biphasic System in Pharmaceutical Industry, China Pharmaceutical University, 21st May 2019
116. Invited Speaker, "Can Liquid Biphasic Apply in Food Industry?", Nanjing Science and Technology University, 24th May 2019
117. Invited Speaker, New Extraction Method, Vietnam Academy of Science and Technology (VAST), Vietnam, 25th Oct 2019
118. Invited Speaker, Liquid-Liquid Partitioning System, Ming Chi University of Technology, Taiwan, 1st Jul 2019
119. Invited Speaker, Downstream Bioprocess Engineering, College of Food Science and Technology, Nanjing Agricultural University, Nanjing, China, 20th Dec 2018
120. Invited Speaker, Bioseparation Engineering, Vietnam Academy of Science and Technology (VAST), Vietnam, 25th Oct 2018
121. Invited Speaker, Liquid Biphasic Partitioning System, University of Tokyo, Japan, 7th Sep 2018
122. Invited Speaker, Aqueous Two-Phase System, Osaka University, Japan, 21st Aug 2018
123. Invited Speaker, Aqueous Two-Phase Flotation System, Kyoto University, Japan, 8th Aug 2018
124. Invited Speaker, Liquid Biphasic Flotation System, Japan Advanced Institute of Science and Technology, Japan, 17th Jul 2018
125. Invited Speaker, Upstream Bioprocess Engineering, Kobe University, Japan, 18th – 29th Jun 2018



126. Invited Speaker, Advances in Bioprocess Engineering, Ming Chi University of Technology, Taiwan, 11th Jun 2018
127. Invited Speaker, "Why Bioprocess Engineering?", The University of Waikato, New Zealand, 14th May 2018
128. Invited Speaker, Advances in Bioseparation Methods, Chongqing University, China, 19th Apr 2018
129. Invited Speaker, Advances in Bioprocess Engineering, Tianjin Chengjian University, China, 17th Apr 2018
130. Invited Speaker, Application of Nanotechnology in Bioseparation, National Taipei University of Technology, Taiwan, 25th Mar 2018
131. Invited Speaker, Application of Ionic Liquid in Bioprocess Engineering, National Chung Hsing University, Taiwan, 23rd Mar 2018
132. Invited Speaker, "How Important Bioseparation in Our Life?", National Yunlin University of Science and Technology, Yunlin County, Taiwan, 21st Jun 2018
133. Invited Speaker, Lipase Recovery based on a Liquid Biphasic Partitioning System, BEST Conference and International Symposium on Biotechnology 2017
134. Keynote Speaker, 5<sup>th</sup> National Science Conference, Vietnam
135. Invited Speaker, 14<sup>th</sup> Asian Congress on Biotechnology (ACB 2019), Taiwan
136. Keynote Speaker, 2019 BEST Conference and International Symposium on Biotechnology, Taiwan
137. Invited Speaker, The Asian Federation of Biotechnology Malaysia Chapter International Symposium 2019 (AFOBMCIS 2019), Malaysia
138. 4<sup>th</sup> International Conference on Alternative Fuels, Energy and Environment (ICAFEE): Future and Challenges, Taiwan
139. Invited Speaker, The International Conference on Sustainable Energy and Green Technology 2019 (SEGT 2019), Thailand
140. Invited Speaker, Society for Biotechnology Annual Meeting 2018, Japan
141. Keynote Speaker, Green Bioprocess Engineering Forum 2018, Ming Chi University of Technology, Taiwan
142. Invited Speaker and session chair, International Bioprocessing Association - International Symposium on Advanced Membrane Bioreactors for Environment Sustainability (IBA-AMBRES 2018)
143. Plenary Speaker, International Conference on Biotechnology 2018, Hanoi, Vietnam
144. Invited Speaker, 2017 BEST Conference and International Symposium on Biotechnology, Taiwan
145. 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
146. Session Chair, Postgraduate Colloquium For Environmental Research (POCER 2015), Kuching, Sarawak, 2015
147. 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
148. Invited Speaker, BioTech International Conference, 2014, Prague, Czech Republic, 6<sup>th</sup> – 8<sup>th</sup> Jun 2014
149. Invited Speaker, International Conference of Bioprocess Engineering, Universiti Perlis Malaysia (UniMAP), Perlis, Malaysia, 6<sup>th</sup> - 8<sup>th</sup> May 2012

150. Invited Speaker, World Biotechnology Congress 2013, Boston, US., 6<sup>th</sup> – 8<sup>th</sup> Jun 2013
151. Invited Speaker, International Conference of Agricultural and Food Engineering, UPM Serdang, Malaysia, 20<sup>th</sup> -22<sup>nd</sup> Nov 2012
152. 14<sup>th</sup> Asian Congress on Biotechnology, 2019, Title of presentation: Recent advances in bioprocessing engineering
153. 2019 Asian Federation of Biotechnology, 2019, Title of presentation: Latest development of bioseparation technology
154. 8<sup>th</sup> Asia-Pacific Drying Conference 2015, Title of presentation: Drying technology in bioprocessing engineering
155. 2018 BEST Conference, Title of presentation: Green Technology in Bioprocessing Engineering
156. BioTech 2018, Title of presentation: The new bio-separation strategy: Liquid Biphasic Partitioning System
157. 6<sup>th</sup> Annual World Congress of Info-Tech 2019, Title of presentation: Launch a new era of 5G in bioprocessing
158. 3<sup>rd</sup> International Symposium on the processing of food, vegetables, and fruit, Title of presentation: How processing in food application
159. Green Bioprocess Engineering Forum 2018, Title of presentation: Sustainable Food Bioprocessing Technology
160. Green Bioprocess Engineering Forum 2019, Title of presentation: Sustainable Food Bioprocessing Technology
161. POCER 2017, Title of presentation: Microalga is important to us.
162. 4<sup>th</sup> Postgraduate Colloquium for Environmental Research, Title of presentation: New liquid Biphasic system
163. Research Funding and Powering the Innovation Engine Conference 2017, Title of presentation: Latest technology required from researchers.
164. International Workshop in catalysis, Title of presentation: Application and current outlooks.
165. 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 10<sup>th</sup> 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 Grrace 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 glocolipid from microlage for application in Industry 4.0 (Sept 2021 – Present)
21. Chong Jun Wei Roy, Development of systematic algal database using mobile application with the integration of artificial intelligence (Feb 2022 – Present)
22. Azalea Dyah Maysarah Satya, S. Si, Microalgae and Replicating Circular Water Management in Combating Water Scarcity in Malaysia (Feb 2022 – Present)
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 Abuhashesh, 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 – Present)
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 – Present)

### **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) Devamalini Rajagopal, Effect Of Preservation Methods On Laccase Activities And Recovery Of Laccase From Processed Hericium Erinaceus (Bull:Fr) Pers. Fruiting Bodies **Graduated**

## **RESEARCH PROJECTS / FUNDING**

### **Principal Investigator & Project Leader**

<b><i>Project title and funding source</i></b>	<b><i>Period and funds</i></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 Plt	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 Entrepise	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

### IP: PI 0103 BIPHASIC SUBLATION BIOSEPARATION SYSTEM

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

### 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].

## 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 Mahlknecht, 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 CO2 mitigation from acetic acid dry reforming over Ni/Al2O3 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, Viggay Wee Gee, Yazan Abubhasheesh, 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)]

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