

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, FIChemE, 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

Name	Pau-Loke SHOW
Place & Date of birth	Ipoh (Perak, Malaysia) & March 22, 1986
Website	https://showpauloke.com/
Research Focus	1. Bioprocessing from Upstream to Downstream 2. Separation and Purification Technology 3. Algae Biorefinery Engineering

Affiliation

Center of Excellence for Research, Value Innovation and Entrepreneurship (CERVIE), UCSI University, Cheras 56000, Kuala Lumpur, Malaysia.
Tel: +971 585401372; Hp: +6 (010) 225 0322
Email: ShowPL@ucsiuniversity.edu.my ; 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. Charted 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*
17. Advisory Board Member, Malaysia Board Member, Asian Federation of Biotechnology (AFOB)

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
17th -19th Apr 2018	Invited researcher, Chongqing University, China
21st–30th Sept 2017	Visiting Professor, Jiangnan University, Wuxi, P.R. China
20th – 30th 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** – 140 (Google Scholar)
Citations - ~ 66537

Editorial Experience

Editor in Chief, **EiC** (2026 – Present)	Innovative Environmental Engineering Solutions
Editor in Chief, **EiC** (2026 – Present)	Renewable Energy And Power Quality Journal
Editor in Chief, **EiC** (Aug 2019 – 2026)	Current Nutrition and Food Sciences
Editor in Chief, **EiC** (2023 – P2026)	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 5th Asian Federation of Biotechnology Malaysia Chapter International Symposium 2023, Malaysia
4. Judge for Young Researcher Session, The 5th 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 (Sonepat) – 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, 7th 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 22nd – 23rd 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, Brunie
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 6th Research, Invention, and Innovation Congress (RI2C 2025)

Theses evaluated

1. Advanced immobilisation strategies for the biological production of hydrogen using the phototrophic bacterium, *Rhodopseudomonas 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 ZnSO4 and FeSO4 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 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

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. Top 2% Listed Year(s): *2022-2026 "Career Long" Data* in The Stanford List 2026
2. Top 2% Listed Year(s): *2020-2026 "Single Year" Data* in The Stanford List 2026
3. Mustafa Prize for Young Scientist, 2025
4. Listed as Top 2% of World's Top Scientists in The Stanford List 2025
5. Reviewer Certificate for serving as a reviewer for ACS Publications
6. Reviewer Certificate for serving as a reviewer for AIChE Journal
7. Top cited article at ChemBioEng Reviews
8. Reviewer Certificate for serving as a reviewer for Water Resources Research
9. Reviewer Certificate for serving as a reviewer for Soil Use and Management 2024
10. Reviewer Certificate for serving as a reviewer for Sustainable Development 2024
11. Reviewer Certificate for serving as a reviewer for Global Challenges 2024
12. Reviewer Certificate for serving as a reviewer for Energy Science & Engineering 2024
13. Reviewer Certificate for serving as a reviewer for Food Science & Nutrition 2024
14. Reviewer Certificate for serving as a reviewer for Innovative Technology and Management Journal (ITMJ)
15. Reviewer Certificate for serving as a reviewer for ACS Publications 2024
16. Listed as Top 2% of World's Top Scientists in The Stanford List 2024
17. Top Reviewer Award for Process Safety and Environmental Protection, 2024
18. Stanford/Elsevier Top 2% Scientists List 2020 - 2024
19. Ranked #1 in Malaysian & Ranked #28 in the World Ranking Rising Start of Science Award 2024 from Research.com
20. Ranked #1 in Malaysian & Ranked #3396 in the World Ranking Biology and Biochemistry Leader Award 2024 from Research.com
21. Ranked #6 in Malaysian & Ranked #310 in the World Ranking Engineering and Technology Leader Award Award 2024 from Research.com
22. Listed as Top 2% of World's Top Scientists in The Stanford List 2023
23. Research.com Biology and Biochemistry in Malaysia Leader Award, 2023.
24. Research.com Rising Star of Science Award, 2023.
25. Young Asian Biotechnologist Prize 2023, Society for Biotechnology, Japan (SBJ).
26. Reviewer Certificate for serving as a reviewer for the International Journal of Food Science & Technology, 2022.
27. Reviewer Certificate for serving as a reviewer for AIChE Journal, 2022.
28. Reviewer Certificate for serving as a reviewer for Biotechnology Progress, 2022.
29. Reviewer Certificate for serving as a reviewer for ChemCatChem, 2022.
30. Reviewer Certificate for serving as a reviewer for Advanced Sustainable Systems, 2022.
31. Highly Cited Researcher 2022 (top 1% for field and year in Biology and Biochemistry), Clarivate 2022
32. Listed as Top 2% of World's Top Scientists in The Stanford List 2022
33. Ten Outstanding Young Malaysian Award 2022
34. Highly Cited Researcher 2022
35. Outstanding Research Supervisor Award 2022, University of Nottingham, UK
36. UNM Faculty of Science and Engineering Professional Outreach and External Engagement Award
37. UNM Faculty of Science and Engineering Research Publication Award 2020

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

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

Boards, Advisory Committees, Professional Organizations

1. Organizing Committee, 1st Middle East Chemical Engineering Symposium 2023
2. Organizing Committee, 2nd International Congress of Chemical Engineering, 2022
3. Board members, AFOB Asian Federation of Biotechnology 2021
4. Organising Secretary, 3rd Postgraduate Colloquium for Environmental Research (POCER) 2021
5. Organising Secretary, 3rd International Symposium on Processing of Foods, Vegetables and Fruits 2014
6. Organising Treasurer, 4th Postgraduate Colloquium for Environmental Research (POCER) 2015
7. Organising Treasurer, 8th Asia-Pacific Drying Conference 2015
8. Organising Treasurer, 5th Postgraduate Colloquium for Environmental Research (POCER) 2017
9. Local Scientific Panels, 1st International Conference on Energy Materials (ICEM), 2021
10. Organising Chair, 6th Postgraduate Colloquium for Environmental Research (POCER) 2022
11. Organizing Committee, 2nd International Symposium on Advanced Functional Materials (ISAFM2), 2022
12. Advisor, 2nd 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. Plenary Speaker at 2nd International Conference on Bioenergy and Biofuels October 19-21, 2026, Singapore
2. Keynote Speaker, International Colloquium on Algal Biotechnology & Wastewater Bioremediation (ALBIO26), 22-23 September 2026, South Afica
3. Speaker, 15th ACP Conference Expert Session, themed "Safety Management for Sustainable Asia: Creating Climate-Resilient Cities and Communities through Regional Collaboration", 4 September 2026
4. Distinguished guest, 2nd International Conference on Sustainable Development Goals and Environmental Sustainability (ICSDGES-2026), Chennai, 1 & 2 September 2026
5. Keynote Speaker, International Conference on Multidisciplinary Approaches in Healthcare, Clinical Practice, and Public Health (ICMAHCPH), 13-14 March 2026
6. Keynote Speaker, 6th Institute Kimia Malaysia Pahang Branch (IKMPB) Online Symposium 2026, 31 January 2026
7. Keynote Speaker, International Symposium on Algae Biotechnology, University Faisalabad, 1 December 2025
8. Invited Speaker. World Young Scientist Summit 2025, International High-end Forum on Aquatic Ecological Environment Management and Wetland Protection. Nov 2025
9. Plenary Speaker, 8th iSTEAM+ Research Congress, 12–13 November, 2025.
10. Speaker, Monash Science Symposium (MSS), Innovating for Tomorrow: Scientific Solutions for a Sustainable Future, 15-17 July 2025
11. Keynote speaker, 2nd International Conference on Sustainable Technologies, Energies and Materials (STEM'25), 19th – 21st February 2025
12. Distinguished speaker for International Symposium on Advanced Manufacturing for Polymeric Materials (AMPM'24), Bangkok, Thailand, 24th May 2024
13. 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.
14. Keynote Speaker, Asian Regional Symposium (ARS2024) to be held at Pakistan Academy of Science, Islamabad, Pakistan, November 24-27, 2024
15. Invited Speaker, Nexus Summit 2024: Sustainability in a Changing World (NEXSUM2024), Universiti Malaysia Terengganu in Malaysia from July 24 to 27, 2024
16. Invited Speaker, Science Talk, Xi'an Jiaotong-Liverpool University, China, 3rd April 2024
17. 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
18. 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.
19. Invited Speaker, International Conference on Advanced Bioprocessing Technologies for Biomass Conversion: Sustainability and Bioresource Management (XI IBA-IFIBiop, 2024), 1-6 December 2024
20. 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

21. Invited Speaker, 3rd International Symposium On Carbon & Functional Materials For Energy & Environment, Danang, Vietnam, 22-25 Feb 2024
22. Invited Speaker, International Colloquium of Microalgae & Diatom Research, Liquid Trees, 8th May 2024.
23. Invited Speaker, International Symposium on Advances in Algal Research, 12-14 Feb 2023, organised by IIT Guwahati, India
24. Keynote Speaker, 9th Mathematics, Science, and Computer Science Education International Seminar (MSCEIS) 2023, October 21st 2023, at the éL Royale Hotel Bandung, Indonesia.
25. Invited Speaker, Research Seminar University of Technology Sydney (UTS), 13 June 2023,
26. Guest lecture, Recent Progress in Microalgae Technology, Chongqing University, China, Dec 2023
27. Invited Talk, China Ocean University, Qingdao, China, Dec 2023
28. World Class Professor Talk, Bandung, Indonesia, Oct-Nov,2023
29. Invited Speaker, Introduction to Microalgae Research. SAKURA Japan. Nov, 2023
30. Invited speaker, Application of AI in microalgae cultivation, Jiangnan University, Wuxi, China, Dec 2023
31. Keynote talk, International Conference of Natural Resources and Environment, Northwest A&F University, China, Dec 2023
32. Keynote talk, Miracle Between Microalgae, BrainLink X-Lab Day, Korea, Dec 2023
33. Invited talk, The Future of Algae & Food, Swinburne University, Feb 2023
34. Winner Talk, Young Asian Biotechnologist Prize 2023, Society for Biotechnology, Japan, Sept 2023
35. Invited Talk, Latest Development of Microalgae Biorefinery, Sri Sivasubramaniya Nadar College of Engineering, India, 2023
36. Keynote Speaker, Latest developments of biorefinery technology in the bioenergy industry, APEC conference, Taiwan, 2023
37. HiCoE, Webinar Series, Advances in Algae-Based Biofuels, Universiti Teknologi Petronas, 2/2023
38. Invited Talk, Recent Progress in Microalgae Technology, AAR 2023 at IIT Guwahati, 2023
39. Invited Speaker, Kunita Overseas Research Grant (KORG) Webinar May 6th, 2023
40. Invited Speaker, IOT in Microalgae Biorefinary, UTS, Australia, May 2023
41. Invited Talk, Microalgae Biorefinery Technology, iNEEBA 2023
42. Invited Speaker, Latest Technology in Microalgae Research, Boras University, May 2023
43. Invited Talk, New Technology in Microalgae Bioengineering, NHBT 2023 Trivandrum
44. Keynote speaker, The 1st Middle East Chemical Engineering Symposium. October 2023.
45. Invited Speaker, "Latest Development In Microalgae Biorefinery" C3 seminar. 13 Jun 2023.
46. Invited Speaker, International Conference on Sustainable Water Management and Resource Recovery 2023
47. Invited Speaker, AI in Microalgae, UNIVERSITY DIPONEGORO, 2023
48. Invited Speaker, International Thematic Lecture Series 5 "Current Research & Technology Applied on Microalgae". 23 May 2023.
49. Invited Speaker, International Conference on Sustainable Waste Management and Resource Recovery 2023. 15 April 2023.

50. Guest Speaker, Research Supervisor Series: Managing Research Students' Progression, UNM. 28 October 2022.
51. Keynote Speaker and session chair, ABBS-International Conference on Biohydrogen and Bioprocesses 2022. 2-4 Dec 2022.
52. Keynote Speaker, The 4th Asian Federation of Biotechnology Malaysia Chapter International Symposium 2022. 18-21, September 2022.
53. Participant, Meet in Malaysia @ Malaysia Business Events Week 2022, 29&30th August, 2022.
54. Chief Guest & Invited Speaker, 3rd International Virtual Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE-2022, 15 and 16th September 2022
55. Keynote Speaker, International Conference on Environment, Sustainability Issues, and Community Development (INCRID), 1st Sep 2022.
56. 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 – 21st 2022.
57. Keynote Speaker and Judge, Monash Science Symposium 2022 with the theme "Symbiosis: Exploring Extraordinary Possibilities", 13 to 15 July 2022.
58. Chaperone, 8th International Biotechnology Competition and Exhibition 2022 (IBCEx'22), 15th & 16th April 2022
59. Keynote Speaker, International Conference on Environmental Science and Green Technology (IC-EGT 2022), 14th & 15th March 2022
60. Keynote Speaker, 3rd International Conference on Recent Advances in Bio-Energy Research (ICRABR-2022)
61. Keynote Speaker, ICEGT 2022, MJIT
62. Plenary Speaker, VI International Conference on Sustainable Energy and Environmental Challenges (VI SEEC), 2021
63. Invited Speaker, American Society for Microbiology, Maduriakamaraj University, 8th July 2021
64. Guest Speaker, International e-Lecture Workshop on the Innovations in Biotechnology, 19th & 20th January 2021
65. 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
66. Technical Committee, 33rd Symposium of Malaysian Chemical Engineers (SOMChE) 2022, 8th & 9th August 2022
67. Chief Guest and Keynote Speaker, 1st International Conference on WATER, ENERGY & ENVIRONMENT [WEECON 2021], 23rd & 24th Dec 2021
68. Plenary Speaker, Amirkabir University of Technology's 2nd International Academia Partnership Platform (AUT-InAPP) with a focus on "Nanofibers: From Laboratory to Industry."
69. Keynote Speech, Mahidol University, Thailand 2021
70. Keynote Speaker, IoT in Microalgae Biorefinery, World Class Professor 2021, Universitas Pendidikan Indonesia, Bandung-Indonesia
71. Plenary Speaker, 2021 GNU Chemistry Summer School, Gyeongsang National University, Korea, 2nd Aug 2021
72. Plenary Speaker, Department of Microbiology of Madras Christian College, Chennai, India, 26 July 2021
73. Keynote Speech, International Virtual Conference on Advances in Chemistry and Materials 2021, 21 June 2021

74. 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
75. 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.
76. Keynote Speaker, Synthetic Biology: from lab to industry" between 27-29th September 2021. Indrashil University, Rajpur, Mehsana, India.
77. Plenary Talk, AI in Microalgae Technology, Madurai Kamaraj University, India, 6th July 2021
78. Plenary Talk Industrial Innovations and Entrepreneurship Opportunities in Algal Biotechnology, Department of Microbiology of Madras Christian College, Chennai, India, 26th July 2021
79. Keynote Speaker, The Future of Biochemical Engineering, World Class Professor 2021, Universitas Pendidikan Indonesia, Bandung-Indonesia
80. Keynote Talk, International Virtual Conference on Advances in Chemistry and Materials 2021, 21st July 2021
81. Invited Speaker, Summer School 2021, University Diponegoro, Indonesia
82. Invited Spacer, Indo-South Korea International e-Conference on Nanoscience and Nanotechnology for Energy, Environment and Biomedical Applications (iNEEBA2021) 07–08 October 2021
83. Keynote Speaker, at the AFOB-Malaysia Chapter International Symposium 2021 held between 22nd – 23rd September 2021 in Malaysia
84. Invited Talk, International Conference on Biotechnology for Resource Efficiency, Energy, Environment, Chemicals and Health (BREACH-2021) during December 1-4, 2021
85. Invited Talk, International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), April 04-08, 2021
86. Invited Talk, The International Conference on Sustainable Waste Treatment and Management (2nd SWTM-2021).
87. Plenary Speaker, International Conference on Sustainable Technology and Development 2021
88. Keynote Talk, Latest Developments of Algal Biorefinery, Kobe University, 7th July 2021
89. Plenary Speech, Microalgae Research in Malaysia, KL Tower for Sabah Meeting, 2nd April 2021
90. Invited Speaker, Sharing on Fundamental Research Grant Scheme (FRGS) University College of Technology Sarawak, 30th June 2021
91. Invited Speaker, How to manage & monitor your FRGS effectively? Xiamen University Malaysia, 6th May 2021
92. Plenary Speaker, Introduction to Scientific Paper, World Class Professor 2021, Universitas Pendidikan Indonesia, Bandung-Indonesia
93. 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
94. 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.
95. Distinguished Guest Speaker, How to effectively write an excellent thesis? Xiamen University Malaysia, 15th April 2021
96. Invited Speaker, Latest downstream bioprocess in Malaysia, Young Scientists Network-Academy

of Sciences Malaysia (YSN-ASM) International Scientific Virtual Conference (ISVC), 30th March – 1st April 2021.

97. Invited Speaker, The Importance and Future of Biochemical Engineering, Diversifying Curriculum Forum, IChemE Heads of Chemical Engineering UK, 16th February 2021
98. Keynote Talk, 4th International STEAM (Science, Technology, Engineering, Agri-Fisheries, and Mathematics) Research Congress, Philippine, February 3-4, 2021
99. Keynote Talk, The Importance of Biochemical Engineering, 11th Green Sustainable Biotechnology Symposium, Taiwan, Jan 2021
100. Keynote Talk, Latest developments of biorefinery technology in the bioenergy industry, 2020 APEC-ACAB, Green Synergy Solutions Event, Green Synergy Solutions in APEC, Taiwan, 19th Dec 2021
101. Invited Speaker, 11th Green Sustainable Biotechnology Symposium 2021, Taiwan
102. Invited Speaker, International Conference "Europe: a Bridge of Knowledge & Science for a Global Circular Economy", held on the 20th and 21st of April, organized by CECOLAB (Collaborative Laboratory Towards Circular Economy
103. Invited Speaker, Tips for Malaysia Grant 2021, University of Technology Sarawak
104. Invited Talk, Latest developments of bioseparation technology in the food industry, 2019 Food Innovation and Engineering (FOODIE) Asia, Korea, 21st November 2021
105. Invited Speaker, Diversifying Curriculum Forum 2021, IChmeE, UK
106. Invited Talk, Latest developments of biorefinery in the biomanufacturing industry, IChemE Webniar, UK, 26th June 2020
107. Plenary Speech, Latest developments of biorefinery in the biomanufacturing industry, Sri Sivasubramaniya Nadar (SSN) College of Engineering University, India, 28th July 2020.
108. Invited Speaker, Latest developments of biorefinery in the biotech industry, IChemE Summit, Australia, 13th July 2020.
109. Invited Talk, Latest Developments of Biorefinery in the Microalgae Research, Universiti Petronas Malaysia, 30th July 2020
110. Invited Talk, Latest developments of biorefinery technology in the bioenergy industry, Universiti of Malaya 22nd Oct 2020
111. Plenary Talk, Application of Ionic Liquid in Bioprocessing Engineering, Biochemical Frontier ZJU-UNM Virtual Doctoral Forum 2020, China, Aug 2020
112. Panel Forum, Potensi Mikroalga dalam Aplikasi Akuakultur: Rawatan Air Sisa dan Suplemen Tambahan untuk Ternakan Udang, Institut Akuakultur Tropika dan Perikanan, Universiti Malaysia Terengganu, 28th April 2020.
113. Plenary Talk, Latest development Algae biorefinery from waste to bioenergy, School of Municipal and Environmental Engineering, Harbin Institute of Technology, Jan 2020
114. Plenary Talk, Sustainable Biosepration Method_Green Liquid Biphasic System, Department of Environmental Science and Technology, Harbin Institute of Technology, Jan 2020
115. 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
116. Invited Speaker, Biochemical Frontier, Zhejiang – University of Nottingham Malaysia Doctoral Forum 2020.
117. Invited Speaker, Managing Malaysia Grants 2020, Xiamen University, Malaysia.
118. Invited Speaker, Upstream Bioprocessing Engineering, Universiti of Malaya, 31st Oct 2019
119. Invited Speaker, Downstream Bioprocessing Engineering, Universiti of Malaya, 31st Sept

2019

120. Invited Speaker, Maintaining Momentum to Ensure Success Session, University of Nottingham, 4th Sep 2019
121. Invited Speaker, Liquid Biphasic System, Kobe University, Japan, 11th Oct 2019
122. Invited Speaker, Recent Development in Bioprocessing Engineering, Ocean University of China, 7th May 2019
123. Invited Speaker, Liquid-Liquid Separation, Wuhan University, China, 14th May 2019
124. Invited Speaker, Two-Phase System, Zhejiang University, China, 16th May 2019
125. Invited Speaker, Bioseparation Engineering, Nanjing University, China, 17th May 2019
126. Invited Speaker, Application of Liquid Biphasic System in Pharmaceutical Industry, China Pharmaceutical University, 21st May 2019
127. Invited Speaker, "Can Liquid Biphasic Apply in Food Industry?", Nanjing Science and Technology University, 24th May 2019
128. Invited Speaker, New Extraction Method, Vietnam Academy of Science and Technology (VAST), Vietnam, 25th Oct 2019
129. Invited Speaker, Liquid-Liquid Partitioning System, Ming Chi University of Technology, Taiwan, 1st Jul 2019
130. Invited Speaker, Downstream Bioprocess Engineering, College of Food Science and Technology, Nanjing Agricultural University, Nanjing, China, 20th Dec 2018
131. Invited Speaker, Bioseparation Engineering, Vietnam Academy of Science and Technology (VAST), Vietnam, 25th Oct 2018
132. Invited Speaker, Liquid Biphasic Partitioning System, University of Tokyo, Japan, 7th Sep 2018
133. Invited Speaker, Aqueous Two-Phase System, Osaka University, Japan, 21st Aug 2018
134. Invited Speaker, Aqueous Two-Phase Flotation System, Kyoto University, Japan, 8th Aug 2018
135. Invited Speaker, Liquid Biphasic Flotation System, Japan Advanced Institute of Science and Technology, Japan, 17th Jul 2018
136. Invited Speaker, Upstream Bioprocess Engineering, Kobe University, Japan, 18th – 29th Jun 2018
137. Invited Speaker, Advances in Bioprocess Engineering, Ming Chi University of Technology, Taiwan, 11th Jun 2018
138. Invited Speaker, "Why Bioprocess Engineering?", The University of Waikato, New Zealand, 14th May 2018
139. Invited Speaker, Advances in Bioseparation Methods, Chongqing University, China, 19th Apr 2018
140. Invited Speaker, Advances in Bioprocess Engineering, Tianjin Chengjian University, China, 17th Apr 2018
141. Invited Speaker, Application of Nanotechnology in Bioseparation, National Taipei University of Technology, Taiwan, 25th Mar 2018
142. Invited Speaker, Application of Ionic Liquid in Bioprocess Engineering, National Chung Hsing University, Taiwan, 23rd Mar 2018
143. Invited Speaker, "How Important Bioseparation in Our Life?", National Yunlin University of Science and Technology, Yunlin County, Taiwan, 21st Jun 2018
144. Invited Speaker, Lipase Recovery based on a Liquid Biphasic Partitioning System, BEST Conference and International Symposium on Biotechnology 2017

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

170. Green Bioprocess Engineering Forum 2018, Title of presentation: Sustainable Food Bioprocessing Technology
171. Green Bioprocess Engineering Forum 2019, Title of presentation: Sustainable Food Bioprocessing Technology
172. POCER 2017, Title of presentation: Microalga is important to us.
173. 4th Postgraduate Colloquium for Environmental Research, Title of presentation: New liquid Biphasic system
174. Research Funding and Powering the Innovation Engine Conference 2017, Title of presentation: Latest technology required from researchers.
175. International Workshop in catalysis, Title of presentation: Application and current outlooks.
176. 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, 4th Jan 2013
2. Education Talk – Plan Your Future, organised by SMK St Michael, Ipoh, Perak, 30th 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, 27th Jun 2018
8. School Talk at Alma Mater, SMI St Michael, 29th Aug 2019

Marketing events:

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

12. International High School Summer Programme (Khanzada student summer school), 3rd Aug 2016
13. KLSEF, Mines International Exhibition and Convention Centre (MIECC), 4th – 6th 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 11th 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 (2nd Dec 2014).
7. Advisor for student's activities in visiting Ajinomoto Malaysia (6th Nov 2014)
8. Advisor for student's activities in visiting Cerebos (M) Sdn. Bhd. (13th Dec 2012)
9. Advisor for student's activities in visiting Am Steel Mill (22nd Nov 2012)
10. Advisor for student activities in visiting Malaysia Palm Oil Board (MPOB) (4th Dec 2012)
11. Advisor for student's activities in visiting Geology Museum in Ipoh & Tin Dredging Museum in Batu Gajah (16th Apr 2013)

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

1. Industry Field Trip to IWK, Putrajaya, 23rd Oct 2019
2. Industry Field Trip to The Italian Baker Sdn. Bhd., 31st Oct 2018
3. Industry Field Trip to Inno Bio Sdn. Bhd., 20th Mar 2019
4. Industry Field Trip to Malaysia Genome Institute, 27th Mar 2018
5. Industry Field Trip to National Pharmaceutical Regulatory Agency (NPRA), 6th Apr 2017
6. Industry Field Trip to Monash Sunway University, Chemical Engineering Laboratory, 11th 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: 28th Nov 2013
2. Topic: Ionic Liquid in Bioseparation, Speaker: Dr Lee Sze Ying, UTAR, Malaysia, Date: 20th 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: 13th 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: 14th Oct 2019
5. Topic: Development of liquid Biphasic Flotation system for lipase extraction, Speaker: Dr Revathy, University of Malaya, Date: 6th Mar 2019
6. Topic: Wastewater Treatment, Speaker: Dr Lim Jun Wei, University Technology Petronas, Date: 29th Mar 2019
7. Topic: Environmental Engineering, Speaker: Dr Ho Y. C., University Technology Petronas, Date: 29th 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: 9th 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: 30th Jan 2019
10. Topic: Ultrasound, Speaker: Dr T. Joyce Tiong, Date: 18th Apr 2019
11. Topic: "Food and Process Engineer", Speaker: Associate Professor Grrace Ng, UCSI University, Date: 13th Mar 2018
12. Topic: "Safety consideration in plant design", Speaker: Mr Alvin from Synergy Specialist Engineering, Date: 10th Oct 2018
13. Topic: How to write a good FRGS proposal, Speaker: Head of Panellist, MOHE grant, Prof Dr Norhamidi Muhamad, Date: 23rd 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 – 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 Abuhasheesh, 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) Devamalini Rajagopalu, 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

Project title and funding source	***Period and funds***
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 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

3. IP: PI2026007410 A SYSTEM AND METHOD FOR AUTOMATED IMAGE-BASED MICROALGAE ANALYSIS FOR SPECIES CLASSIFICATION

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]
9. Edgar Almanza Rodríguez, Eva Águila-Almanza, Madai Gizé Sánchez-Arzubide, Heriberto Hernández-Cocoletzi *, Doris Ying Ying Tang, **Pau Loke Show ***, Sie Yon Lau, Kit Wayne Chew *. "Brewed to Perfection: The Clarifying Power of Chitosan in Craft Beer". Journal of Food Quality (2026): 4870144 [Published 18 May 2026]
10. Jun Wei Roy Chong *, Doris Ying Ying Tang *, **Pau Loke Show**, Teo Swee Sen, Siew-Moi Phang. "Decoding the Cellular Green-to-Red Gold Transition: Harnessing AI-Integrated IoT-ML Framework for Boosting Haematococcus pluvialis Cultivation and Astaxanthin Bio-Production". Algae and Environment (2026). [Published 23 June 2026, 2026]
11. Mohammad Javad Hessami, Mostafa Khaledi, Hui Yi Leong, **Pau Loke Show**, Umer Rashid, Sharareh Harirchi, Mahmood Danaee, Siew-Moi Phang *. "Energy-efficient sugar release

from red macroalgae via low-temperature smart hydrolysis: Response surface methodology-guided optimization". Biochemical Engineering Journal (2026): 233. [Accepted 13 May 2026]

12. Chan Kok Lee, Hooi Ren Lim, Doris Ying Ying Tang, **Pau Loke Show ***, Kit Wayne Chew *. "Decarbonizing Composites: Policy-Oriented Review of Carbon Footprint, Circularity, and Carbon Trading". ChemBioEng Reviews (2026). [Published 14 July 2026]
13. Yustina M. Pusparizkita *, Dwi S. Mila, Annisa D. Anggraeni, Syifa N. Fadilah, Christian Aslan, J. Jamari, Athanasius P. Bayuseno, Chong Jun Wei Roy, **Pau Loke Show**. "Preliminary evaluation of Bacillus licheniformis-mediated carbonate precipitation for lead and cadmium immobilization in landfill leachate". Next Materials (2026): 13. [Accepted 19 June 2026]
14. Pingying Liu, Xuehua Xiao, Youcai Zhou, Xu Guo, Dahui Zhou, Bilian Chen, **Pau-Loke Show**, Yongjin He *. "A newly isolated Scenedesmus bijugus PY6 for high-valued astaxanthin production via two-stage heterotrophic cultivation". Food Bioscience (2026): 82. [Accepted 13 June 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 Kaniyamparambil, 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 Sugenendran, 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, Birsen 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 KMnO4 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 Biphasic 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 Abuhasheesh, 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 Abuhasheesh*, 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].

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