



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 the Full Professor of Biochemical Engineering at Khalifa University, Abu Dhabi, United Arab Emirates. Before moving to Khalifa University, he was a Full Professor at the Department of Chemical and Environmental Engineering, Faculty of Science and Engineering, University of Nottingham Malaysia. He is also the former President and Founder of International Bioprocessing Society based in Malaysia. He led as the Director of Sustainable Food Processing Research Centre and Co-Director of Future Food Malaysia, Beacon of Excellence, in the University of Nottingham Malaysia. Prof Ir. Ts. Dr. Show has successfully obtained his PhD in two years' time after obtaining his bachelor's degree from Universiti Putra Malaysia. In the year of 2022, he was elected as a Fellow of the Institution of Chemical Engineers IChemE (FIChemE). He is currently a Professional Engineer (PEng) registered with the Board of Engineers Malaysia (BEM), Chartered Engineer of the Engineering Council UK (CEng), Corporate Member of The Institution of Engineers, Malaysia (MIEM), and Professional Technologist (PTech) registered with the Malaysia Board of Technologists (MBOT). Prof Ir. Ts. Dr. Show obtained the Post Graduate Certificate of Higher Education (PGCHE) in 2014 and is now a Fellow of the Higher Education Academy (FHEA) UK.

Since he started his career in 2012, he has received numerous prestigious academic awards, including the recent Highly Cited Researcher 2022, World's Rising Stars of Science in 2022, Ten Outstanding Young Malaysian 2022, Tan Sri Emeritus Professor Augustine S H Ong International Special Award on Innovations and Inventions in Palm Oil in 2021, APEC Science Prize for Innovation, Research and Education ("ASPIRE") Malaysia Award 2020, Malaysia Young Scientist 2019 Award, The DaSilva Award 2018, JSPS Fellowship 2018, Top 100 Asian Scientists 2017, Asia's Rising Scientists Award 2017 and Winner of Young Researcher in IChemE Award 2016. He has graduated more than 20 PhD and MSc students and is leading a team of 20 members consisting of postdoctoral, PhD and MSc research students. Up to today, he has published more than 850 journal papers in less than 10 years of his career. His publications have been cited over 25,000 times over the past 5 years. His current h-index is 75, placing him among the top leaders of his chosen field (Microalgae Technology). He is also the Primary Project leaders for more than 35 projects from International, National, and Industry Projects, with total amount of more than 5.0 million.

He is now serving as an Editor-in-Chief in *Current Nutrition & Food Science*, Review Editor-in-Chief in *Molecular Biotechnology*, Deputy Editor-in-Chief in *Bioengineered*, Editor in *Scientific Report*, *Biocatalysis and Agricultural Biotechnology*, Associate Editor at *Alexandria Engineering Journal*, Elsevier; *Current Biochemical Engineering*; *The Open Microalgae Biotechnology*, and Editorial board member in *Bioresource Technology* and

Biochemical Engineering Journal. He also managing lead guest editor for many well reputation journals, examples, *Renewable and Sustainable Energy Reviews*, *Journal of Hazardous Materials*; *Biofuel Research Journal*; *Environmental Pollution*; *Chemosphere*; *Clean Technologies and Environmental Policy*; *Bioengineered*; *Processes*; *Energies*; *Biocatalysis and Agricultural Biotechnology*; *Frontiers in Energy Research*; *BMC Energy*, Springer Nature; *Materials Science for Energy Technologies*, KeAI; *Current Nutrition & Food Science*. Prof Ir Ts Dr Show is an active reviewer for more than 150 esteemed international journals published by Nature, Science, Cells, Elsevier, Wiley, Springer, ACS, RSC and Taylor & Francis publishers. He has been recently awarded as the Top Peer Reviewer powered by Publons (Top 1% of Reviewers in Global Top Peer Reviewer Awards in Engineering, Global Top Peer Reviewer Awards in Cross-Field, Global Top Peer Reviewer Awards Chemistry, Global Top Peer Reviewer Awards in Biology and Biochemistry, Global Top Peer Reviewer Awards in Agricultural Sciences). Also, he has acted as a handling editor for more than 5000 submitted manuscripts in numerous journals.

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

Department of Chemical Engineering,
Khalifa University, P.O. Box 127788,
Abu Dhabi, United Arab Emirates
Tel: +971 585401372; Hp: +6 (010) 225 0322
Email: PauLoke.Show@ku.ac.ae
PauLoke.Show@nottingham.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 Life-time Member, Malaysian Oil Scientists' and Technologists' Association, LM163/2021
3. Graduate Technologist, 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 Engineer, Malaysia, PE18678
7. Graduate Member, The Institute of Engineer, Malaysia, 27315
8. Graduate Engineer, Board of Engineer, 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 2021/2022

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 th -19 th Apr 2018	Invited researcher, Chongqing University, China
21 st -30 th Sept 2017	Visiting Professor, Jiangnan University, Wuxi, P.R. China
20 th – 30 th 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 10 years' research experience in:

1. Bioprocessing from Upstream to Downstream
2. Separation and Purification Technology
3. Algae Biorefinery Engineering

h index and Citations

h index – 75 (Google scholar)

Citations - ~ **25,122**

Editorial Experience

Editor in Chief, EiC (Aug 2019 – Present)	Current Nutrition and Food Sciences
Deputy EiC (Jan 2021 – Present)	Bioengineered
Review EiC (Jan 2022 – Present)	Molecular Biotechnology
Associate Editor (Sep 2021 – Present)	Alexandria Engineering Journal
Associate Editor (Aug 2020 – Present)	Bioengineered
Associate Editor (Sep 2019 – Present)	Current Biochemical Engineering
Associate Editor (Sep 2019 – 2021)	The Open Microalgae Biotechnology
Associate Editor (Jan 2019– 2021)	Journal of Advanced Biotechnology and Experimental Therapeutics
Associate Editor (May 2023– Present)	Environmental Science and Ecotechnology
Editor (June 2019 – Present)	Biocatalysis and Agricultural Biotechnology
Editor (Aug 2019 – Present)	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

Editorial Board Member:

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

Regular Reviewers: 255 ISI Journals - 5544 reviewer tasks completed

Regular handling editors: 45 ISI Journals – 5587 editor tasks completed

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

Professional Services and Experience

1. Evaluation Panel, Research and Postgraduate Centre (RPC) of Xiamen University Malaysia (XMUM), Malaysia
2. Panel, Engineering Accreditation Council, Malaysia
3. Panel, Engineering Technology Accreditation Council, Malaysia
4. Grant Panel, Swiss National Science Foundation
5. Grant Panel, Dhofar University Grant Panel,
6. Grant Panel, Poland's National Science Centre
7. Grant Panel, National Foundation for Science and Technology Development (NAFOSTED), Vietnam
8. Grant Panel, Kazakhstan Ministry of Education & Science
9. Grant Panel, Hungary's National Research, Development & Innovation Office
10. Grant Panel, National Center of Science and Technology Evaluation JSC
11. External Examiner, Universiti Sains Malaysia, Malaysia
12. External Examiner, Universiti Putra Malaysia, Malaysia
13. External Examiner, University of Malaya, Malaysia
14. External Examiner, Indian Institute of Information Technology, Allahabad, India
15. External Examiner, University of Technology Sydney, Australia
16. External Examiner, Nanyang Technology University, Singapore
17. External Examiner, Savitribai Phule Pune University, India
18. External Examiner, University of Waikato, New Zealand

19. External Examiner, UCSI University, Malaysia
20. External Examiner, Universiti Teknologi PETRONAS, Malaysia
21. External Examiner, Monash University, Australia
22. External Examiner, Vellore Institute of Technology (VIT) University, India
23. External Examiner, Monash Sunway University, Malaysia
24. Judge, Human Life Advancement Foundation
25. Judge, Regional Chemical Engineering Undergraduate Conference (RCEUC)
26. Evaluation Panel, National Research Grant Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education Malaysia
27. Evaluation Panel, National Research Grant, MRUN Young Researchers Grant Scheme (MY-RGS), Ministry of Higher Education Malaysia
28. Evaluation Panel, National Research Grant, Prototype Research Grant Scheme (PRGS), Ministry of Higher Education Malaysia
29. Academic Promotion Evaluator, University of Jeddah, Kingdom of Saudi Arabia
30. Judge, 7th Southeast Asian Agricultural Engineering Student Chapter Annual Regional Convention 2021, Universiti Putra Malaysia
31. Judge, 3 Minutes Poster Session 2 at the AFOB-Malaysia Chapter International Symposium 2021, held between 22nd – 23rd September 2021 in Malaysia
32. 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

Awards and Research Achievements

1. Reviewer Certificate for serving as a reviewer for International Journal of Food Science & Technology, 2022.
2. Reviewer Certificate for serving as a reviewer for AIChE Journal, 2022.
3. Reviewer Certificate for serving as a reviewer for Biotechnology Progress, 2022.
4. Reviewer Certificate for serving as a reviewer for ChemCatChem, 2022.
5. Reviewer Certificate for serving as a reviewer for Advanced Sustainable Systems, 2022.
6. Highly Cited Researcher 2022 (top 1% for field and year in Biology and Biochemistry), Clarivate 2022
7. 236 in the world and 2 in Malaysia, Best Rising Stars of Science in the World - 2022 Ranking
8. Ten Outstanding Young Malaysian Award 2022
9. Highly Cited Researcher 2022
10. Outstanding Research Supervisor Award 2022, University of Nottingham, UK
11. UNM Faculty of Science and Engineering Professional Outreach and External Engagement Award
12. UNM Faculty of Science and Engineering Research Publication Award 2020
13. Top Cited Article Year 2020-2021 from WILEY in International Journal of Energy Research
14. Top 3 winner, Malaysia National Kesum Initiative 2022
15. Rank Top #1 in Malaysia number of publications in ISI, Scopus 2020-2021
16. Winning the 2nd Runner-up in the National Kesum Initiative, organized by Center for Healthy Ageing and Wellness (H-Care), Universiti Kebangsaan Malaysia, Malaysia.
17. Certificate of Appreciation, Jury of 2021 APEC-ACABT Green Synergy Solutions for Green Energy
18. Outstanding Reviewer for Environmental Technology & Innovation 2021

19. Certificate as World Class Professor in recognition of his distinguished contribution to the success of the World Class Professor Program 2021
20. Certificate of Appreciation, Virtual International Faculty Development Programme, Sri Sivasubramaniya Nadar College of Engineering, 18th-27th November 2021
21. Certificate of Appreciation, Webinar on Translating Thesis and Dissertation to IMRAD Format Publication in High-Impact Journal, 24 November 2021
22. Finalist in the Biochemical Engineering 2021 IChemE Global Awards
23. Winner, Tan Sri Emeritus Professor Augustine S H Ong International Special Award on Innovations and Inventions in Palm Oil
24. Winner, 2020 Outstanding Reviewer in Water Environment Research
25. Winner, Top 2% World Top Scientists in The Stanford List 2020
26. Winner, APEC Science Prize for Innovation, Research and Education (ASPIRE) Malaysia Award 2020
27. Most Read and Top Download Paper 2018-2019 Award from Wiley
28. Winner of National Young Scientists Award, Malaysia 2019
29. Vice Chancellor Award, University of Nottingham, 2019
30. Global Top Peer Reviewer Awards in Engineering 2019
31. Global Top Peer Reviewer Awards in Cross-Field 2019
32. Global Top Peer Reviewer Awards Chemistry 2019
33. Global Top Peer Reviewer Awards in Biology and Biochemistry 2019
34. Global Top Peer Reviewer Awards in Agricultural Sciences 2019
35. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 17th Dec 2014
36. Best paper award in BioTech International Conference, 2014, Prague, Czech Republic, 6th – 8th Jun 2014
37. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2012
38. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2013
39. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2014
40. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2015
41. UNM Research Award (Gold), Faculty of Engineering, 2016
42. UNM Research Award (Gold), Faculty of Engineering, 2017
43. UNM Research Award (Gold), Faculty of Engineering, 2018
44. UNM Research Award (Gold), Faculty of Engineering, 2019
45. UNM Research Award (Gold), Faculty of Engineering, 2020
46. Rank #1 in the world of top Biology & Biochemistry reviewer from Publons' Global Peer Review Award 2018
47. First Malaysian won The DaSilva Award 2018 from Society for Biotechnology, Japan
48. Finalist (Top 3) in Nanotechnology Young Researcher Award 2018 from Nanotechnology, IOP Publishing
49. Asean-India Research Training Fellowship (AI-RTF) 2018
50. Outstanding Paper Award 2018, Springer
51. JSPS Fellowship 2018 from Japan Society for the Promotion of Science, Japan

52. Bioresource Technology, Elsevier, Top Reviewer Award 2017
53. Silver Award, International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA) 2017, Terengganu, Malaysia
54. Top 100 Asian Scientists 2017
55. Asia's Rising Scientists Award 2017
56. Invited Speaker, 2017 BEST Conference and International Symposium on Biotechnology
57. Winner, Young Researcher Award, IChemE Malaysia Award 2016
58. Highly Cited Paper of the Year Award, Biotechnology Journal 2016
59. Highly Commended, Young Researcher Award, IChemE Global Award 2015
60. Silver Award, Invention, Innovation & Design Exposition (IIDEX) 2015, Universiti Teknologi MARA (UiTM) Shah Alam
61. Best paper award, BioTech Conference 2015, Prague
62. Platinum Research Award, Research Division (Year 2012, 2013, 2014 and 2015)
63. Gold, Publication Award, Faculty (Year 2016 and 2017)
64. School of Graduate Inaugural Stories for Inspiration, May 2012
65. Best scores in the Faculty for the Top 5 University Student Evaluation Teaching (SET) below 1.5 (Autumn 2011/2012)
66. Peer & Alumni Support Group, UPM, 2012-2019

Boards, Advisory Committees, Professional Organizations

1. Organizing Committee, 2nd International Congress of Chemical Engineering, 2022
2. Board members, AFOB Asian Federation of Biotechnology
3. Organising Secretary, 3rd Postgraduate Colloquium for Environmental Research (POCER) 2013
4. Organising Secretary, 3rd International Symposium on Processing of Foods, Vegetables and Fruits 2014
5. Organising Treasurer, 4th Postgraduate Colloquium for Environmental Research (POCER) 2015
6. Organising Treasurer, 8th Asia-Pacific Drying Conference 2015
7. Organising Treasurer, 5th Postgraduate Colloquium for Environmental Research (POCER) 2017
8. Local Scientific Panels, 1st International Conference on Energy Materials (ICEM), 2021
9. Organising Chair, 6th Postgraduate Colloquium for Environmental Research (POCER) 2022
10. Organizing Committee, 2nd International Symposium on Advanced Functional Materials (ISAFM2), 2022

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

Plenary Talk, Keynote Speech & Invited Lecture

1. Guest speaker, Research Supervisor Series: Managing Research Students’ Progression, UNM. 28 October 2022.
2. Keynote speaker and session chair, ABBS-International Conference on Biohydrogen and Bioprocesses 2022. 2-4 Dec 2022.
3. Keynote Speaker, The 4th Asian Federation of Biotechnology Malaysia Chapter International Symposium 2022. 18-21, September 2022.
4. Participant, Meet in Malaysia @ Malaysia Business Events Week 2022, 29&30th August, 2022.
5. Chief Guest & Invited Speaker, 3rd International Virtual Conference on Recent Trends in Clean Technologies for Sustainable Environment (CTSE-2022, 15 and 16th September 2022
6. Keynote Speaker, International Conference on Environment, Sustainability Issues, and Community Development (INCRID), 1st Sep 2022.

7. 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.
8. Keynote Speaker and Judge, Monash Science Symposium 2022 with the theme "Symbiosis: Exploring Extraordinary Possibilities", 13 to 15 July 2022.
9. Chaperone, 8th International Biotechnology Competition and Exhibition 2022 (IBCEX'22), 15th & 16th April 2022
10. Keynote Speaker, International Conference on Environmental Science and Green Technology (IC-EGT 2022), 14th & 15th March 2022
11. Keynote Speaker, 3rd International Conference on Recent Advances in Bio-Energy Research (ICRABR-2022)
12. Keynote Speaker, ICEGT 2022, MJIT
13. Plenary Speaker, VI International Conference on Sustainable Energy and Environmental Challenges (VI SEEC), 2021
14. Guest Speaker, International e-Lecture Workshop on the Innovations in Biotechnology, 19th & 20th January 2021
15. 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
16. Technical Committee, 33rd Symposium of Malaysian Chemical Engineers (SOMChE) 2022, 8th & 9th August 2022
17. Chief Guest and Keynote Speaker, 1st International Conference on WATER, ENERGY & ENVIRONMENT [WEECON 2021], 23rd & 24th Dec 2021
18. Plenary Speaker, Amirkabir University of Technology's 2nd International Academia Partnership Platform (AUT-InAPP) with a focus on "Nanofibers: From Laboratory to Industry."
19. Keynote Speech, Mahidol University, Thailand 2021
20. Keynote Speaker, IoT in Microalgae Biorefinery, World Class Professor 2021, Universitas Pendidikan Indonesia, Bandung-Indonesia
21. Plenary Speaker, 2021 GNU Chemistry Summer School, Gyeongsang National University, Korea, 2nd Aug 2021
22. Plenary Speaker, Department of Microbiology of Madras Christian College, Chennai, India, 26 July 2021
23. Keynote Speech, International Virtual Conference on Advances in Chemistry and Materials 2021, 21 June 2021
24. 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
25. 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.
26. Keynote Speaker, Synthetic Biology: from lab to industry" between 27-29th September 2021. Indrashil University, Rajpur, Mehsana, India.
27. Plenary Talk, AI in Microalgae Technology, Madurai Kamaraj University, India, 6th July 2021
28. Plenary Talk Industrial Innovations and Entrepreneurship Opportunities in Algal Biotechnology, Department of Microbiology of Madras Christian College, Chennai, India, 26th July 2021

29. Keynote Speaker, The Future of Biochemical Engineering, World Class Professor 2021, Universitas Pendidikan Indonesia, Bandung-Indonesia
30. Keynote Talk, International Virtual Conference on Advances in Chemistry and Materials 2021, 21st July 2021
31. Invited Speaker, Summer School 2021, University Diponegoro, Indonesia
32. Invited Speaker, Indo-South Korea International e-Conference on Nanoscience and Nanotechnology for Energy, Environment and Biomedical Applications (iNEEBA2021) 07-08 October, 2021
33. Keynote Speaker, at the AFOB-Malaysia Chapter International Symposium 2021 held between 22nd – 23rd September 2021 in Malaysia
34. Invited Talk, International Conference on Biotechnology for Resource Efficiency, Energy, Environment, Chemicals and Health (BREECH-2021) during December 1-4, 2021
35. Invited Talk, International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), April 04-08, 2021
36. Invited Talk, The International Conference on Sustainable Waste Treatment and Management (2nd SWTM-2021).
37. Plenary Speaker, International Conference on Sustainable Technology and Development 2021
38. Keynote Talk, Latest Developments of Algal Biorefinery, Kobe University, 7th July 2021
39. Plenary Speech, Microalgae Research in Malaysia, KL Tower for Sabah Meeting, 2nd April 2021
40. Invited Speaker, Sharing on Fundamental Research Grant Scheme (FRGS) University College of Technology Sarawak, 30th June 2021
41. Invited Speaker, How to manage & monitor your FRGS effectively? Xiamen University Malaysia, 6th May 2021
42. Plenary Speaker, Introduction to Scientific Paper, World Class Professor 2021, Universitas Pendidikan Indonesia, Bandung-Indonesia
43. 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
44. 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.
45. Distinguished Guest Speaker, How to effectively write an excellent thesis? Xiamen University Malaysia, 15th April 2021
46. 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.
47. Invited Speaker, The Importance and Future of Biochemical Engineering, Diversifying Curriculum Forum, IChemE Heads of Chemical Engineering UK, 16th February 2021
48. Keynote Talk, 4th International STEAM (Science, Technology, Engineering, Agri-Fisheries, and Mathematics) Research Congress, Philippine, February 3-4, 2021
49. Keynote Talk, The Importance of Biochemical Engineering, 11th Green Sustainable Biotechnology Symposium, Taiwan, Jan 2021
50. 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
51. Invited Speaker, 11th Green Sustainable Biotechnology Symposium 2021, Taiwan

52. 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)
53. Invited Speaker, Tips for Malaysia Grant 2021, University of Technology Sarawak
54. Invited Talk, Latest developments of bioseparation technology in the food industry, 2019 Food Innovation and Engineering (FOODIE) Asia, Korea, 21st November 2021
55. Invited Speaker, Diversifying Curriculum Forum 2021, IChmeE, UK
56. Invited Talk, Latest developments of biorefinery in the biomanufacturing industry, IChemE Webniar, UK, 26th June 2020
57. Plenary Speech, Latest developments of biorefinery in the biomanufacturing industry, Sri Sivasubramaniya Nadar (SSN) College of Engineering University, India, 28th July 2020.
58. Invited Speaker, Latest developments of biorefinery in the biotech industry, IChemE Summit, Australia, 13th July 2020.
59. Invited Talk, Latest Developments of Biorefinery in the Microalgae Research, Universiti Petronas Malaysia, 30th July 2020
60. Invited Talk, Latest developments of biorefinery technology in the bioenergy industry, Universiti of Malaya 22nd Oct 2020
61. Plenary Talk, Application of Ionic Liquid in Bioprocessing Engineering, Biochemical Frontier ZJU-UNM Virtual Doctoral Forum 2020, China, Aug 2020
62. 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.
63. Plenary Talk, Latest development Algae biorefinery from waste to bioenergy, School of Municipal and Environmental Engineering, Harbin Institute of Technology, Jan 2020
64. Plenary Talk, Sustainable Bioseparation Method_Green Liquid Biphasic System, Department of Environmental Science and Technology, Harbin Institute of Technology, Jan 2020
65. 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
66. Invited Speaker, Biochemical Frontier, Zhejiang – University of Nottingham Malaysia Doctoral Forum 2020.
67. Invited Speaker, Managing Malaysia Grants 2020, Xiamen University, Malaysia.
68. Invited Speaker, Upstream Bioprocessing Engineering, Universiti of Malaya, 31st Oct 2019
69. Invited Speaker, Downstream Bioprocessing Engineering, Universiti of Malaya, 31st Sept 2019
70. Invited Speaker, Maintaining Momentum to Ensure Success Session, University of Nottingham, 4th Sep 2019
71. Invited Speaker, Liquid Biphasic System, Kobe University, Japan, 11th Oct 2019
72. Invited Speaker, Recent Development in Bioprocessing Engineering, Ocean University of China, 7th May 2019
73. Invited Speaker, Liquid-Liquid Separation, Wuhan University, China, 14th May 2019
74. Invited Speaker, Two-Phase System, Zhejiang University, China, 16th May 2019
75. Invited Speaker, Bioseparation Engineering, Nanjing University, China, 17th May 2019
76. Invited Speaker, Application of Liquid Biphasic System in Pharmaceutical Industry, China Pharmaceutical University, 21st May 2019
77. Invited Speaker, "Can Liquid Biphasic Apply in Food Industry?", Nanjing Science and Technology University, 24th May 2019
78. Invited Speaker, New Extraction Method, Vietnam Academy of Science and Technology (VAST),

Vietnam, 25th Oct 2019

79. Invited Speaker, Liquid-Liquid Partitioning System, Ming Chi University of Technology, Taiwan, 1st Jul 2019
80. Invited Speaker, Downstream Bioprocess Engineering, College of Food Science and Technology, Nanjing Agricultural University, Nanjing, China, 20th Dec 2018
81. Invited Speaker, Bioseparation Engineering, Vietnam Academy of Science and Technology (VAST), Vietnam, 25th Oct 2018
82. Invited Speaker, Liquid Biphasic Partitioning System, University of Tokyo, Japan, 7th Sep 2018
83. Invited Speaker, Aqueous Two-Phase System, Osaka University, Japan, 21st Aug 2018
84. Invited Speaker, Aqueous Two-Phase Flotation System, Kyoto University, Japan, 8th Aug 2018
85. Invited Speaker, Liquid Biphasic Flotation System, Japan Advanced Institute of Science and Technology, Japan, 17th Jul 2018
86. Invited Speaker, Upstream Bioprocess Engineering, Kobe University, Japan, 18th – 29th Jun 2018
87. Invited Speaker, Advances in Bioprocess Engineering, Ming Chi University of Technology, Taiwan, 11th Jun 2018
88. Invited Speaker, “Why Bioprocess Engineering?”, The University of Waikato, New Zealand, 14th May 2018
89. Invited Speaker, Advances in Bioseparation Methods, Chongqing University, China, 19th Apr 2018
90. Invited Speaker, Advances in Bioprocess Engineering, Tianjing Chengjian University, China, 17th Apr 2018
91. Invited Speaker, Application of Nanotechnology in Bioseparation, National Taipei University of Technology, Taiwan, 25th Mar 2018
92. Invited Speaker, Application of Ionic Liquid in Bioprocess Engineering, National Chung Hsing University, Taiwan, 23rd Mar 2018
93. Invited Speaker, “How Important Bioseparation in Our Life?”, National Yunlin University of Science and Technology, Yunlin County, Taiwan, 21st Jun 2018
94. Invited Speaker, Lipase Recovery based on a Liquid Biphasic Partitioning System, BEST Conference and International Symposium on Biotechnology 2017
95. Keynote Speaker, 5th National Science Conference, Vietnam
96. Invited Speaker, 14th Asian Congress on Biotechnology (ACB 2019), Taiwan
97. Keynote Speaker, 2019 BEST Conference and International Symposium on Biotechnology, Taiwan
98. Invited Speaker, The Asian Federation of Biotechnology Malaysia Chapter International Symposium 2019 (AFOBMCIS 2019), Malaysia
99. 4th International Conference on Alternative Fuels, Energy and Environment (ICAFEE): Future and Challenges, Taiwan
100. Invited Speaker, The International Conference on Sustainable Energy and Green Technology 2019 (SEGT 2019), Thailand
101. Invited Speaker, Society for Biotechnology Annual Meeting 2018, Japan
102. Keynote Speaker, Green Bioprocess Engineering Forum 2018, Ming Chi University of Technology, Taiwan
103. Invited Speaker and session chair, International Bioprocessing Association - International Symposium on Advanced Membrane Bioreactors for Environment Sustainability (IBA-AMBRES 2018)
104. Plenary Speaker, International Conference on Biotechnology 2018, Hanoi, Vietnam

105. Invited Speaker, 2017 BEST Conference and International Symposium on Biotechnology, Taiwan
106. 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
107. Session Chair, Postgraduate Colloquium For Environmental Research (POCER 2015), Kuching, Sarawak, 2015
108. Invited Speaker, 5th International Conference on Algal Biomass, Biofuels & Bioproducts, 7th – 10th Jun 2015, San Diego, CA, USA
109. Invited Speaker, BioTech International Conference, 2014, Prague, Czech Republic, 6th – 8th Jun 2014
110. Invited Speaker, International Conference of Bioprocess Engineering, Universiti Perlis Malaysia (UniMAP), Perlis, Malaysia, 6th – 8th May 2012
111. Invited Speaker, World Biotechnology Congress 2013, Boston, US., 6th – 8th Jun 2013
112. Invited Speaker, International Conference of Agricultural and Food Engineering, UPM Serdang, Malaysia, 20th -22nd Nov 2012
113. 14th Asian Congress on Biotechnology, 2019, Title of presentation: Recent advances in bioprocessing engineering
114. 2019 Asian Federation of Biotechnology, 2019, Title of presentation: Latest development of bioseparation technology
115. 8th Asia-Pacific Drying Conference 2015, Title of presentation: Drying technology in bioprocessing engineering
116. 2018 BEST Conference, Title of presentation: Green Technology in Bioprocessing Engineering
117. BioTech 2018, Title of presentation: The new bio-separation strategy: Liquid Biphasic Partitioning System
118. 6th Annual World Congress of Info-Tech 2019, Title of presentation: Launch a new era of 5G in bioprocessing
119. 3rd International Symposium on processing of food, vegetables and fruit, Title of presentation: How processing in food application
120. Green Bioprocess Engineering Forum 2018, Title of presentation: Sustainable Food Bioprocessing Technology
121. Green Bioprocess Engineering Forum 2019, Title of presentation: Sustainable Food Bioprocessing Technology
122. POCER 2017, Title of presentation: Microalga is important to us.
123. 4th Postgraduate colloquium for environmental research, Title of presentation: New liquid biphasic system
124. Research Funding and Powering the Innovation Engine Conference 2017, Title of presentation: Latest technology required from researchers.
125. International Workshop in catalysis, Title of presentation: Application and current outlooks.
126. Vietnam IBS 2018, Title of presentation: Oil production from rock.

Institution Collaborators

Initiated MOUs to promote internationalisation 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 to Ajinomoto Malaysia (6th Nov 2014)
8. Advisor for student’s activities in visiting to Cerebos (M) Sdn. Bhd. (13th Dec 2012)
9. Advisor for student’s activities in visiting to Am Steel Mill (22nd Nov 2012)
10. Advisor for student’s activities in visiting to Malaysia Palm Oil Board (MPOB) (4th Dec 2012)
11. Advisor for student’s activities in visiting to 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 student:

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)
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. Abdul Azim Bin Azmi, Lipid extraction from microalgae (February 2019 – Present)
13. Chia Wen Yi (Kathlyne), Optimisation of sugar extraction in palm oil milling using liquid biphasic flotation (September 2019 – Present)
14. Doris Tang Ying Ying, Incorporation of PUFA from oil producing microalgae in enrichment of palm oil (September 2019 – Present)
15. Angela Paul Peter, Recent pathways in optimizing the cultivation of microalgae biomass using novel photobioreactor design (September 2019 – Present)
16. Nurul Syahirah Mat Aron, Extraction of biomolecules from microalgae using membrane-based separation processes (September 2019 – Present)
17. Vishno Vardhan Devadas, The Role of Algae in Agriculture (Oct 2020 – Present)
18. Lim Hooi Ren, Designing of Simultaneous Cultivation of Spirulina and Extraction of Pigment (phycocyanin) System (Oct 2020 – Present)
19. Yongqiu Cai, Encapsulation of bioactive compound from microalgae (Feb 2021 – Present)
20. Tham Pei En, Industry 4.0 in microalgae aquaculture farming (Sept 2021 – Present)
21. Ng Yan Jer, Extraction of glocolipid from microlage for application in Industry 4.0 (Sept 2021 – Present)
22. Chong Jun Wei Roy, Development of systematic algal database using mobile application with the integration of artificial intelligence (Feb 2022 – 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 bio energy from waste water using microalgae (2014 – 2018) **Graduated**
5. Yu Kai Ling, Biochar production from algal (2017 – Now) **Graduated**
6. Win Nee Phong, Protein recovery from algal (2016-2017) **Graduated**
7. Kee Chong Yee (2017 – Present) **Graduated**
8. Guinevere Szeyin, Heavy metal removal using microalgae (2018-Present)
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**

Co-supervisor:

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

RESEARCH PROJECTS / FUNDING

Principal Investigator & Project Leader

<i>Project title and funding source</i>	<i>Period and funds</i>
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 citric 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

2023

1. 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)]
2. 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)]
3. 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 CdO₂ 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)]
4. Yue Cao, Yegeng Sun, Ning Han*, Xue Li, Qing Wang, Kuizhao Sun, Weimeng Si, Fagang Wang*, Xiaolin Zhao*, Awais Bokhari, Muhammad Mubashir, Lai Fatt Chuah*, **Pau Loke Show***. (2023) "Novel highly active and selective CoNSC efficient ORR catalyst derived from in-situ egg gel pyrolysis" *Fuel*, 333, 126432. [Accepted 18 October 2022, IF: 8.035(2021)]
5. Mamoona Munir, Muhammad Saeed, Mushtaq Ahmad*, Amir Waseem, Mustafa Alsaady, Saira Asif*, Anas Ahmed, Mohd Shariq Khan, Awais Bokhari, Muhammad Mubashir, Lai Fatt Chuah*, **Pau Loke Show***. (2023) "Cleaner production of biodiesel from novel non-edible seed oil (*Carthamus lanatus* L.) via highly reactive and recyclable green nano CoWO₃@rGO composite in context of green energy adaptation" *Fuel*, 332, 126265. [Accepted 7 October 2022, IF: 8.035(2021)]
6. Yustina M Pusparizkita*, Christian Aslan, Wolfgang W Schmahl, Hary Devianto, Ardiyan Harimawan, Tjandra Setiadi, Yan Jer Ng, Athanasius P Bayuseno, **Pau Loke Show**. (2023) "Microbiologically influenced corrosion of the ST-37 carbon steel tank by *Bacillus licheniformis* present in biodiesel blends" *Biomass and Bioenergy*, 168, 106653. [Accepted 13 November 2022, IF: 5.774(2021)]
7. Partha Pratim Mondal, Abhinav Galodha, Vishal Kumar Verma, Vijai Singh, **Pau Loke Show**, Mukesh Kumar Awasthi, Brejesh Lall, Sanya Anees, Katrin Pollmann, Rohan Jain*. (2023) "Review on machine learning-based bioprocess optimization, monitoring, and control systems" *Bioresource Technology*, 370, 128523. [Accepted 20 December 2022, IF: 11.889(2021)]
8. Rewati Dixit, Khushal Khambhati, Kolli Venkata Supraja, Vijai Singh, Franziska Lederer, **Pau-Loke Show**, Mukesh Kumar Awasthi, Abhinav Sharma, Rohan Jain*. (2023) "Application of machine learning on understanding biomolecule interactions in cellular machinery" *Bioresource Technology*, 370, 128522. [Accepted 20 December 2022, IF: 11.889(2021)]
9. Soheil Valizadeh, Yasin Khani, Hoesuk Yim, Suhyeong Chai, Dongwon Chang, Abid Farooq, **Pau-Loke Show**, Byong-Hun Jeon, Moonis Ali Khan, Sang-Chul Jung, Young-Kwon Park*. (2023) "H₂ generation from steam gasification of swine manure over nickel-loaded perovskite oxides catalysts" *Environmental Research*, 219, 115070. [Accepted 13 December 2022, IF: 8.431(2021)]
10. Guojie Song, Chihe Sun*, Yun Hu, Chen Wang, Changlei Xia, Maobing Tu, Ezhen Zhang, **Pau-**

- Loke Show, Fubao Sun***. (2023) "Construction of anhydrous two-step organosolv pretreatment of lignocellulosic biomass for efficient lignin membrane-extraction and solvents recovery" *Journal of Physics: Energy*, 5, 014015. [Accepted 19 December 2022]
11. Doris Ying Ying Tang, Kit Wayne Chew, Shir Reen Chia, Huong-Yong Ting, Yuk-Heng Sia, Francesco G Gentili, Zengling Ma, Mukesh Kumar Awasthi*, **Pau Loke Show***. (2023) "Triphasic partitioning of mixed *Scenedesmus* and *Desmodesmus* for nutrients' extraction and chlorophyll composition prediction for algae bloom" *Environmental Technology*, 1-12. [Accepted 28 October 2022, IF: 3.475(2021), Q2(155/325)]
 12. Doris Ying Ying Tang, Kit Wayne Chew, Huong-Yong Ting, Yuk-Heng Sia, Francesco G Gentili, Young-Kwon Park, Fawzi Banat, Alvin B Culaba, Zengling Ma, **Pau Loke Show***. (2023) "Application of Regression and Artificial Neural Network Analysis of Red-Green-Blue Image Components in Prediction of Chlorophyll Content in Microalgae" *Bioresource Technology*, 370, 128503. [Accepted 14 December 2022, IF: 11.889(2021)]
 13. Vivekananda Budamagunta, Nowsheen Shameem, Sivaraj Irusappan, Javid A Parray, Merin Thomas, Santhosh Marimuthu, Rangasamy Kirubakaran, KN Arul Jothi*, RZ Sayyed*, **Pau Loke Show***. (2023) "Nanovesicle and extracellular polymeric substance synthesis from the remediation of heavy metal ions from soil" *Environmental Research*, 219, 114997. [Accepted 3 December 2022, IF: 8.431(2021)]
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