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| **Professor Ir. Ts. Dr. Pau-Loke SHOW, *PhD., PEng, P.Tech. CEng, MIChemE, FHEA*** | | | | | | |
| [C:\Users\user\Downloads\126707-200.png](https://sites.google.com/view/show-pau-loke-research-group/about-us)  [Group Website](https://showpauloke.com/) | [C:\Users\user\Downloads\linked-in-2668700__340.png](https://www.linkedin.com/in/show-pau-loke-abaa7743/)  [Linked-in](https://www.linkedin.com/in/show-pau-loke-abaa7743/) | [C:\Users\user\Downloads\1200px-ORCID_iD.svg.png](https://orcid.org/0000-0002-0913-5409)  [ORCID](https://orcid.org/0000-0002-0913-5409) | [C:\Users\user\Downloads\download.png](https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=47861451300&zone=)  [Scopus](https://www.scopus.com/authid/detail.uri?origin=resultslist&authorId=47861451300&zone=) | [C:\Users\user\Downloads\1024px-Google_Scholar_logo.svg.png](https://scholar.google.com/citations?hl=en&user=XlulJR0AAAAJ&view_op=list_works&sortby=pubdate)  [Google Scholar](https://scholar.google.com/citations?hl=en&user=XlulJR0AAAAJ&view_op=list_works&sortby=pubdate) | [C:\Users\user\Downloads\EmbeddedImage.png](https://publons.com/researcher/1344183/pau-loke-show/)  [Publons](https://publons.com/researcher/1344183/pau-loke-show/) | [C:\Users\user\Downloads\download (1).png](https://www.researchgate.net/profile/Show_Pau_Loke)  [Research Gate](https://www.researchgate.net/profile/Show_Pau_Loke) |
| **Prof. Ir. Ts. Dr. Pau-Loke SHOW** is the President of International Bioprocess Association in Malaysia. He also the director of Sustainable Food Processing Research Centre and Co-director of Future Food Malaysia, Beacon of Excellence, in the University of Nottingham Malaysia. He is a Full Professor at the Department of Chemical and Environmental Engineering, Faculty of Science and Engineering, University of Nottingham Malaysia. He has successful obtained his PhD in two years’ time after obtaining his bachelor’s degree from Universiti Putra Malaysia. He is currently a Professional Engineer (PEng) registered with the Board of Engineers Malaysia, Chartered Engineer (CEng) of the Engineering Council UK (MIChemE) and Professional Technologies (PTech) registered with the Malaysia Board of Technologists. 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 Tan Sri Emeritus Professor Augustine S H Ong International Special Award on Innovations and Inventions in Palm Oil 2021, APEC Science Prize for Innovation, Research and Education (“ASPIRE”) Malaysia Award 2020, Malaysia Young Scientist 2019 Award, ASEAN-India Research and Training Fellowship 2019, 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 2020, he has published more than 550 journal papers in less than 8 years of his career. His publications have been cited over 10,000 times over the past 5 years. His current h-index is 51, 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 more than MYR5.0 million.  He is now serving as an Editor-in-chief in Current Nutrition & Food Science, Editor in Scientific Report, Biocatalysis and Agricultural Biotechnology, Associate Editor at Bioengineered; 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, Journal of Hazardous Materials, Elsevier; Biofuel Research Journal, Elsevier; Environmental Pollution, Elsevier; Chemosphere, Elsevier; Clean Technologies and Environmental Policy, Springer; Bioengineered, Taylor & Francis; Processes, MDPI; Energies, MDPI; Biocatalysis and Agricultural Biotechnology, Elsevier; Frontiers in Energy Research, Frontiers; BMC Energy, Springer Nature; Materials Science for Energy Technologies, KeAI; Current Nutrition & Food Science, Bentham Science. Prof Ir Ts Dr Show is an active reviewer for more than 100 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 2019 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 1000 submitted manuscripts in numerous journals. | | | | | | |

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| **CURRICULUM VITAE – SHOW PAU LOKE** |

***Name*** Pau-Loke SHOW

***Place & Date of birth*** Ipoh (Perak, Malaysia) & March 22, 1986

***Website*** <https://sites.google.com/view/show-pau-loke-research-group>

Research Focus 1. Bioprocessing from Upstream to Downstream

2. Separation and Purification Technology

3. Algae Biorefinery Engineering

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| **Affiliation** |

Department of Chemical & Environmental Engineering,

Faculty of Science and Engineering,

University of Nottingham Malaysia,

Broga Road, 43500 Semenyih, Selangor Darul Ehsan, Malaysia.

Tel: +6 (03) 8924 8605; Hp: +6 (010) 225 0322

Email: [PauLoke.Show@nottingham.edu.my](mailto:PauLoke.Show@nottingham.edu.my); [showpauloke@gmail.com](mailto:showpauloke@gmail.com)

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| **Educational Qualifications** |

2006-2010 B. Eng. (Honors) 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

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| **Professional Qualifications** |

1. Professional Technologist, Malaysia Board of Technologists (MBOT), PT20010044
2. Graduate Technologist, Malaysia Board of Technologists (MBOT), GT19060084
3. Chartered Engineers (CEng), Engineering Council, UK, 643295
4. Member and Chemical Engineer, Institution of Chemical Engineers, UK, 99960109
5. Professional Engineer, Board of Engineer, Malaysia, PE18678
6. Graduate Member, The Institute of Engineer, Malaysia, 27315
7. Graduate Engineer, Board of Engineer, Malaysia, GE80348A
8. IChemE Biochemical Engineering Special Interested Group, 99960109
9. Malaysia Representative, The Society for Biotechnology (Japan), SBJ 900550
10. Invited Life-time member, Malaysian Oil Scientists’ and Technologists’ Association, LM163/2021
11. Lifetime member, Member of International Bioprocessing Association (IBA-IFIBiop)
12. Fellow, Higher Education Academy, UK
13. Affiliate Member, Young Scientist Network, Malaysia.
14. Member, Asian Federation of Biotechnology.

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

2019 - date Director, Sustainable Food Processing, Research Centre, University of Nottingham Malaysia

2019 – date 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

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 Enviromental 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

27th – 28th Jun 2018 Keynote Speaker, Green Bioprocess Engineering Forum, Ming Chi University of Technology, Taiwan

Jun – Sept 2018 Invited Fellow, Kobe University, Japan

14th – 17th Apr 2018 Invited Speaker, Tianjing Chengjinag University, China

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 2012Project Engineer, Gai-Tronic Malaysia

Sept 2010–Sept 2012Tutor, Universiti Putra Malaysia

Jan 2009–Sept 2012 Research Assistant, Universiti Putra Malaysia

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| **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

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| ***h*  index and Citations** |

***h***index *-* 50 (Google scholar)

**Citations** - ~ **9,514**

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| **Editorial Experience** |

**Editor in Chief** (Aug 2019 – Present) Current Nutrition and Food Sciences, Bantam Science

**Associate Editor** (Sep 2021 – Present) Alexandria Engineering Journal, Elsevier

**Associate Editor** (Aug 2020 – Present) Bioengineered (Taylor & Francis)

**Associate Editor** (Sep 2019 – Present) Current Biochemical Engineering, Bantam Science

**Associate Editor** (Sep 2019 – 2021) The Open Microalgae Biotechnology, Open Bentam

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

**Editor** (June 2019 – Present) Biocatalysis and Agricultural Biotechnology

**Editor** (Aug 2019 – Present) Scientific Reports, Nature

**Managing Guest Editor**: Science of the Total Environment, Elsevier;

Journal of Hazardous Materials, Elsevier;

Biofuel Research Journal, Elsevier;

Environmental Pollution, Elsevier;

Chemosphere, Elsevier;

Photochemistry Review, Springer;

Material Letters, Elsevisr;

Bioresource Technology, Elsevier;

Fuel, Elsevier;

Journal of Biotechnology, Elsevier;

Beilstein Journal of Nanotechnology

Biomass Cobversion and Birefinery, Springer

Environmental Research, Elsevier

Clean Technologies and Environmental Policy, Springer;

Processes, MDPI

Energies, MDPI

Biocatalysis and Agricultural Biotechnology, Elsevier;

Frontiers in Energy Research, Frontiers;

BMC Energy, Springer Nature;

Materials Science for Energy Technologies, KeAI;

Current Nutrition & Food Science, Bentham Science.

***Editorial Board Member*:**

1. Journal of Hazardous Materials (Apr 2021 – Present)
2. Bioresource Technology (Mar 2021 – Present)
3. Processes, MDPI (Jan 2020 – Present)
4. International Journal of Bioprocess and Biotechnological Advances (Dec 2018 – 2021)
5. BMC Energy, Springer Nature (August 2018 – 2021)
6. Biochemical Engineering Journal, Elsevier (Sept 2017 – Present)
7. Current Nutrition & Food Science (Nov 2018 – Dec 2019)
8. Bioengineered (Taylor & Francis) (Nov 2018 – Aug 2020)

***Regular Reviewers:*** 221 ISI Journals - 1544 reviewer tasks completed

***Regular handling editors:*** 12 ISI Journls – 587 editor tasks completed

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

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| **Professional Services and Experience** |

* + - * 1. Panel, Engineering Accreditation Council, Malaysia
        2. Panel, Engineering Technology Accreditation Council, Malaysia
        3. Grant Panel, Swiss National Science Foundation
        4. Grant Panel, Dhofar UniversityGrant Panel,
        5. Grant Panel, Poland’s National Science Centre
        6. Grant Panel, National Foundation for Science and Technology Development (NAFOSTED), Vietnam
        7. Grant Panel, Kazakhstan Ministry of Education & Science,
        8. Grant Panel, Hungary’s National Research, Development & Innovation Office
        9. Grant Panel, National Center of Science and Technology Evaluation JSC
        10. External Examiner, Universiti Sains Malaysia, Malaysia
        11. External Examiner, Universiti Putra Malaysia, Malaysia
        12. External Examiner, Universiy of Malaya, Malaysia
        13. External Examiner, Indian Institute of Information Technology, Allahabad, India
        14. External Examiner, University of Technology Sydney External Examiner, Australia
        15. External Examiner, Nanyang Technologu University, Singapore
        16. External Examiner, Savitribai Phule Pune University, India
        17. External Examiner, University of WaikatoExternal Examiner, New Zealand
        18. External Examiner, UCSI University, Malaysia
        19. External Examiner, Universiti Teknologi PETRONAS, Malaysia
        20. Judge, Human Life Advancement Foundation
        21. Judge, Regional Chemical Engineering Undergraduate Conference (RCEUC)
        22. External Examiner, Monash University, Australia
        23. External Examiner, Vellore Institute of Technology (VIT) University, India
        24. External Examiner, UCSI University, Malaysia
        25. External Examiner, Monash Sunway University, Malaysia
        26. Evaluation Panel of National Research Grant Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education Malaysia
        27. Evaluation Panel of National Research Grant, MRUN Young Researchers Grant Scheme (MY-RGS), Ministry of Higher Education Malaysia
        28. Evaluation Panel of 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

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| **Awards and Research Achievements** |

1. Tan Sri Emeritus Professor Augustine S H Ong International Special Award on Innovations and Inventions in Palm Oil
2. Top 2% World Top Scientists in The Stanford List 2020
3. APEC Science Prize for Innovation, Research and Education (ASPIRE) Malaysia Award 2020
4. Most Read and Top Download Paper 2018-2019 Award from Wiley
5. Winner of National Young Scientists Award, Malaysia 2019
6. Vice Chancellor Award, Univesity of Nottingham, 2019
7. Global Top Peer Reviewer Awards in Engineering 2019
8. Global Top Peer Reviewer Awards in Cross-Field 2019
9. Global Top Peer Reviewer Awards Chemistry 2019
10. Global Top Peer Reviewer Awards in Biology and Biochemistry 2019
11. Global Top Peer Reviewer Awards in Agricultural Sciences 2019
12. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 17th Dec 2014
13. Best paper award in BioTech International Conference, 2014, Prague, Czech Republic, 6th – 8th Jun 2014
14. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2012
15. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2013
16. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2014
17. Platinum Award, Research Away Day, Manufacturing and Industrial Processes Research Division, Faculty of Engineering, The University of Nottingham, Malaysia Campus, 2015
18. UNM Research Award (Gold), Faculty of Engineering, 2016
19. UNM Research Award (Gold), Faculty of Engineering, 2017
20. UNM Research Award (Gold), Faculty of Engineering, 2018
21. UNM Research Award (Gold), Faculty of Engineering, 2019
22. UNM Research Award (Gold), Faculty of Engineering, 2020
23. Rank #1 in the world of top Biology & Biochemistry reviewer from Publons’ Global Peer Review Award 2018
24. First Malaysian won The DaSilva Award 2018 from Society for Biotechnology, Japan
25. Finalist (Top 3) in Nanotechnology Young Researcher Award 2018 from Nanotechnology, IOP Publishing
26. Asean-India Research Training Fellowship (AI-RTF) 2018
27. Outstanding Paper Award 2018, Springer
28. JSPS Fellowship 2018 from Japan Society for the Promotion of Science, Japan
29. Bioresource Technology, Elsevier, Top Reviewer Award 2017
30. Silver Award, International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA) 2017, Terengganu, Malaysia
31. Top 100 Asian Scientists 2017
32. Asia’s Rising Scientists Award 2017
33. Invited Speaker, 2017 BEST Conference and International Symposium on Biotechnology
34. Winner, Young Researcher Award, IChemE Malaysia Award 2016
35. Highly Cited Paper of the Year Award, Biotechnology Journal 2016
36. Highly Commended, Young Researcher Award, IChemE Global Award 2015
37. Silver Award, Invention, Innovation & Design Exposition (IIDEX) 2015, Universiti Teknologi MARA (UiTM) Shah Alam
38. Best paper award, BioTech Conference 2015, Prague
39. Platinum Research Award, Research Division (Year 2012, 2013, 2014 and 2015)
40. Gold, Publication Award, Faculty (Year 2016 and 2017)
41. School of Graduate Inaugural Stories for Inspiration, May 2012
42. Best scores in the Faculty for the Top 5 University Student Evaluation Teaching (SET) below 1.5 (Autumn 2011/2012)
43. Peer & Alumni Support Group, UPM, 2012-2019

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| **Boards, Advisory Committees, Professional Organizations** |

1. Local Scientific Panels, 1st International Conference on Energy Materials (ICEM), 2021
2. Organisimg Secretary, 3rd Postgraduate Colloquium for Environmental Research (POCER) 2013
3. Organisimg Secretary, 3rd International Symposium on Processing of Foods, Vegetables and Fruits 2014
4. Organisimg Treasurer, 4th Postgraduate Colloquium for Environmental Research (POCER) 2015
5. Organisimg Treasurer, 8th Asia-Pacific Drying Conference 2015
6. Organisimg Treasurer, 5th Postgraduate Colloquium for Environmental Research (POCER) 2017
7. Organisimg Chair, 6th Postgraduate Colloquium for Environmental Research (POCER) 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 Learnng, 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:

1. Director of Sustainable Food Processing Research Centre, since 2019
2. Co-Director of Future Food Malaysia Beacon of Excellence, since 2019
3. NAA Module Convenor for FOSE Internship, since 2019
4. Bio-Separation Research Group – Leader, since 2017
5. Food and Pharmaceutical Engineering Research Group – Member, since 2013
6. Molecular Pharming and Bioproduction Research Group – Member, since 2015
7. Women in Science and Technology (WinSET) - Multimedia & Publicity Team Leader (2014 – 2016).
8. Gender Equality in Nottingham (GEN), 2017 onward – Communications Officer
9. Research Ethics Committee in Nottingham University Business School (NUBS), UNMC – Faculty of Engineering Representative, since 2015
10. University Safety Committee - Representative research division, since 2015
11. F1 Talk 2013 (University Event) – Coordinator
12. Info Day, Open Day and International School Visit - Organising Committee, since 2014
13. Organising Industrial talks open to all staff and students - Organising Committee, since 2014

**SUPE**

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

1. Keynote Speech, Mahidol University, Thailand
2. Plenary Speaker, 2021 GNU Chemistry Summer School, Gyeongsang National University, Korea, 2nd Aug 2021
3. Plenary Speaker, Department of Microbiology of Madras Christian College, Chennai, India, 26 July 2021
4. Keynote Speech, International Virtual Conference on Advances in Chemistry and Materials 2021, 21 June 2021
5. Plenary Talk, AI in Microalgae Technology, Madurai Kamaraj University, India, 6th July 2021
6. Plenary Talk Industrial Innovations and Entrepreneurship Opportunities in Algal Biotechnology, Department of Microbiology of Madras Christian College, Chennai, India, 26th July 2021
7. Keynote Talk, International Virtual Conference on Advances in Chemistry and Materials 2021, 21st July 2021
8. Invited Talk, International Conference on Biotechnology for Resource Efficiency, Energy, Environment, Chemicals and Health (BREEECH-2021) during December 1-4, 2021
9. Invited Talk, International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), April 04-08, 2021
10. Invited Talk, The International Conference on Sustainable Waste Treatment and Management (2nd SWTM-2021).
11. Keynote Talk, Latest Developments of Algal Biorefinary, Kobe University, 7th July 2021
12. Plenary Speech, Microlage Research in Malaysia, KL Tower for Sabah Meeting, 2nd April 2021
13. Invited Speaker, Sharing on Fundamental Research Grant Scheme (FRGS) Universitu College of Technology Sarawak, 30th June 2021
14. Invited Speaker, How to manage & monitor your FRGS effectively? Xiamen University Malaysia, 6th May 2021
15. Invited Speaker, Latest Developments of Biorefinery Technology in The Biotechnolgy Industry International Conference on Biotechnology for Sustainable Agriculture, Environment and Health (BSAEH-2021), India, 4-8 April 2021.
16. Distinguished Guest Speaker, How to effectively write an excellent thesis? Xiamen University Malaysia, 15th April 2021
17. 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.
18. Invited Speaker, The Importance and Future of Biochemical Engineering, Diversifying Curriculum Forum, IChemE Heads of Chemical Engineering UK, 16th February 2021
19. Keynote Talk, 4th International STEAM (Science, Technology, Engineering, Agri-Fisheries, and Mathematics) Research Congress, Philiphine, February 3-4, 2021
20. Keynote Talk, The Importance of Biochemical Engineering, 11th Green Sustainable Biotechnology Symposium, Taiwan, Jan 2021
21. 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
22. Invited Talk, Latest developments of bioseparation technology in the food industry, 2019 Food Innovation and Engineering (FOODIE) Asia, Korea, 21st November 2021
23. Invited Talk, Latest developments of biorefinery in the biomanufacturing industry, IChemE Webniar, UK, 26th June 2020
24. Plenary Speech, Latest developments of biorefinery in the biomanufacturing industry, Sri Sivasubramaniya Nadar (SSN) College of Engineering University, India, 28th July 2020.
25. Invited Speaker, Latest developments of biorefinery in the biotech industry, IChemE Summit, Austraria, 13th July 2020.
26. Invited Talk, Latest Developments of Biorefinery in the Microalgae Research, Universiti Petronas Malaysia, 30th July 2020
27. Invited Talk, Latest developments of biorefinery technology in the bioenergy industry, Universiti of Malaya 22nd Oct 2020
28. Plenary Talk, Application of Ionic Liquid in Bioprocessing Emginering, Biochemical Frontier ZJU-UNM Virtual Doctoral Forum 2020, China, Aug 2020
29. 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.
30. Plenary Talk, Latest development Algae biorefinery from waste to bioenergy, School of Municipal and Environmental Engineering, Harbin Institute of Technology, Jan 2020
31. Plenary Talk, Sustainable Biosepration Method\_Green Liquid Biphasic System, Department of Environmental Science and Technology, Harbin Institute of Technology, Jan 2020
32. 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
33. Invited Speaker, Upstream Bioprocessing Engineering, Universiti of Malaya, 31st Oct 2019
34. Invited Speaker, Downstream Bioprocessing Engineering, Universiti of Malaya, 31st Sept 2019
35. Invited Speaker, Maintaining Momentum to Ensure Success Session, Univeristy of Nottingham, 4th Sep 2019
36. Invited Speaker, Liquid Biphasic System, Kobe University, Japan, 11th Oct 2019
37. Invited Speaker, Recent Development in Bioprocessing Engineering, Ocean University of China, 7th May 2019
38. Invited Speaker, Liquid-Liquid Separation, Wuhan University, China, 14th May 2019
39. Invited Speaker, Two-Phase System, Zhejiang University, China, 16th May 2019
40. Invited Speaker, Bioseparation Engineering, Nanjing University, China, 17th May 2019
41. Invited Speaker, Application of Liquid Biphasic System in Pharmaceutical Industry, China Pharmaceutical University, 21st May 2019
42. Invited Speaker, “Can Liquid Biphasic Apply in Food Industry?”, Nanjing Science and Technology University, 24th May 2019
43. Invited Speaker, New Extraction Method, Vietnam Academy of Science and Technology (VAST), Vietnam, 25th Oct 2019
44. Invited Speaker, Liquid-Liquid Partitioning System, Ming Chi University of Technology, Taiwan, 1st Jul 2019
45. Invited Speaker, Downstream Bioprocess Engineering, College of Food Science and Technology, Nanjing Agricultural University, Nanjing, China, 20th Dec 2018
46. Invited Speaker, Bioseparation Engineering, Vietnam Academy of Science and Technology (VAST), Vietnam, 25th Oct 2018
47. Invited Speaker, Liquid Biphasic Partitioning System, University of Tokyo, Japan, 7th Sep 2018
48. Invited Speaker, Aqueous Two-Phase System, Osaka University, Japan, 21st Aug 2018
49. Invited Speaker, Aqueous Two-Phase Flotation System, Kyoto University, Japan, 8th Aug 2018
50. Invited Speaker, Liquid Biphasic Flotation System, Japan Advanced Institute of Science and Technology, Japan, 17th Jul 2018
51. Invited Speaker, Upstream Bioprocess Engineering, Kobe University, Japan, 18th – 29th Jun 2018
52. Invited Speaker, Advances in Bioprocess Engineering, Ming Chi University of Technology, Taiwan, 11th Jun 2018
53. Invited Speaker, “Why Bioprocess Engineering?”, The University of Waikato, New Zealand, 14th May 2018
54. Invited Speaker, Advances in Bioseparation Methods, Chongqing University, China, 19th Apr 2018
55. Invited Speaker, Advances in Bioprocess Engineering, Tianjing Chengjian University, China, 17th Apr 2018
56. Invited Speaker, Application of Nanotechnology in Bioseparation, National Taipei University of Technology, Taiwan, 25th Mar 2018
57. Invited Speaker, Application of Ionic Liquid in Bioprocess Engineering, National Chung Hsing University, Taiwan, 23rd Mar 2018
58. Invited Speaker, “How Important Bioseparation in Our Life?”, National Yunlin University of Science and Technology, Yunlin County, Taiwan, 21st Jun 2018
59. Invited Speaker, Lipase Recovery based on a Liquid Biphasic Partitioning System, BEST Conference and International Symposium on Biotechnology 2017
60. Keynote Speaker, 5th National Science Conference, Vietnam
61. Invited Speaker, 14th Asian Congress on Biotechnology (ACB 2019), Taiwan
62. Keynote Speaker, 2019 BEST Conference and International Symposium on Biotechnology, Taiwan
63. Invited Speaker, The Asian Federation of Biotechnology Malaysia Chapter International Symposium 2019 (AFOBMCIS 2019), Malaysia
64. 4th International Conference on Alternative Fuels, Energy and Environment (ICAFEE): Future and Challenges, Taiwan
65. Invited Speaker, The International Conference on Sustainable Energy and Green Technology 2019 (SEGT 2019), Thailand
66. Invited Speaker, Society for Biotechnology Annual Meeting 2018, Japan
67. Keynote Speaker, Green Bioprocess Engineering Forum 2018, Ming Chi University of Technology, Taiwan
68. Invited Speaker and session chair, International Bioprocessing Association - International Symposium on Advanced Membrane Bioreactors for Environment Sustainability (IBA-AMBRES 2018)
69. Plenary Speaker, International Conference on Biotechnology 2018, Hanoi, Vietnam
70. Invited Speaker, 2017 BEST Conference and International Symposium on Biotechnology, Taiwan
71. 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
72. Session Chair, Postgraduate Colloquium For Environmental Research (POCER 2015), Kuching, Sarawak, 2015
73. Invited Speaker, 5th International Conference on Algal Biomass, Biofuels & Bioproducts, 7th – 10th Jun 2015, San Diego, CA, USA
74. Invited Speaker, BioTech International Conference, 2014, Prague, Czech Republic, 6th – 8th Jun 2014
75. Invited Speaker, International Conference of Bioprocess Engineering, Universiti Perlis Malaysia (UniMAP), Perlis, Malaysia, 6th - 8th May 2012
76. Invited Speaker, World Biotechnology Congress 2013, Boston, US., 6th – 8th Jun 2013
77. Invited Speaker, International Conference of Agricultural and Food Engineering, UPM Serdang, Malaysia, 20th -22nd Nov 2012
78. 14th Asian Congress on Biotechnology, 2019, Title of presentation: Recent advances in bioprocessing engineering
79. 2019 Asian Federation of Biotechnology, 2019, Title of presentation: Latest development of bioseparation technology
80. 8th Asia-Pacific Drying Conference 2015, Title of presentation: Drying technology in bioprocessing engineering
81. 2018 BEST Conference, Title of presentation: Green Technology in Bioprocessing Engineering
82. BioTech 2018, Title of presentation: The new bio-separation strategy: Liquid Biphasic Partitioning System
83. 6th Annual World Congress of Info-Tech 2019, Title of presentation: Launch a new era of 5G in bioprocessing
84. 3rd International Symposium on processing or food, vegetables and fruit, Title of presentation: How processing in food application
85. Green Bioprocess Engineering Forum 2018, Title of presentation: Sustainable Food Bioprocessing Technology
86. Green Bioprocess Engineering Forum 2019, Title of presentation: Sustainable Food Bioprocessing Technology
87. POCER 2017, Title of presentation: Microalga is important to us.
88. 4th Postgraduate colloquium for environmental research, Title of presentation: New liquid biphasic system
89. Research Funding and Powering the Innovation Engine Conference 2017, Title of presentation: Latest technology required from researchers.
90. International Workshop in catalysis, Title of presentation: Application and current outlooks.
91. Vietnam IBS 2018, Title of presentation: Oil production from rock.

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| **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. Universitu College of Technology Sarawak
11. Malaysian Rubber Council
12. Zhejiang University, China
13. Xiamen University Malayisa
14. University of Waikato
15. Biolina Sdn Bhd Vision

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| **Industrial Collaborators, Consultations, Technical advisor** |

1. Biotajmeel Cosmeceutical Sdn. Bhd.

Lot 3174, Batu 23, Jalan Kota Bharu - Machang, Malaysia

Jun 2019 – April 2021

1. Ripcol Industries Sdn. Bhd. (586996k)

No.9, Jalan Chepor 11/7, Kawasan Perusahaan Seramik Chepor, 31200, Chemor, Perak.

Sep 2017 – Dec 2019

1. The Malaysian Agricultural Research and Development Institute (MARDI)

Ibu Pejabat MARDI, Persiaran MARDI-UPM, 43400 Serdang, Selangor.

Jan 2016 – Present

1. 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

1. Ventura Agro Entreprise (Malaysia)

Jalan Robinson Falls, 39200 Cameron Highlands, Pahang, Malaysia

Feb 2020 – Present

1. AlgaeCytes Limited

Discovery Park House, Ramsgate Road, Sandwich, Kent CT13 9ND

Jan 2019 – Present

1. 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

1. Biolina Corporation Sdn Bhd

No. 30-32, Jalan Perindustrian Silibin 1, Kawasan Perindustrian Silibin, 30100 Ipoh, Perak

Jan 2019 - Present

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| **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)).

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| **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 (July 2021 – Present)
21. Ng Yan Jer, Extraction of glocolipid from microlage for application in Industry 4.0 (July 2021 – 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. Kexin Wang, Algal torrefaction (Oct 2020 – Present)
10. Zhuang Dinling, Valuable biomolecules extraction and automation of biomolecules processing, (Sept 2020 – Present)
11. 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 – present)

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

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| **RESEARCH PROJECTS / FUNDING** |

**Principal Investigator & Project Leader**

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

1. 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

1. Industrial project with Davis Sdn Bhd (MYR15K): 1 man-day for 12 months project.
2. Industrial project Boustead Plantation: 1 man-day for 4 months project

**IP:** **PI 0103 BIPHASIC SUBLATION BIOSEPARATION SYSTEM**

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

**2022**

1. Shir Reen Chia, Saifuddin Bin HJ M Nomanbhay, Kit Wayne Chew, Heli Siti Halimatul Munawaroh, **Pau Loke Show\***. (2022) “Algae as potential feedstock for various bioenergy production” Chemosphere, 287, 131944. [Accepted 17 August 2021, IF: 7.086(2020)]
2. Xin Ni Law, Wai Yan Cheah\*, Kit Wayne Chew, Mohammad Faizal Ibrahim, Young-Kwon Park, Shih-Hsin Ho\*, **Pau Loke Show**\*. (2022) “Microalgal-based biochar in wastewater remediation: Its synthesis, characterization and applications” Environmental Research, 204, 111966. [Accepted 19 August 2021, IF: 6.498(2020)]
3. Minlin Yang, Elaine Low, Chung Lim Law, Jie-Chao Chen, **Pau Loke Show**, Si-Min Huang\*. (2022) “Heat and mass transfer in a counter flow parallel plate membrane-based absorption heat pump (PMAHP)” International Journal of Thermal Sciences, 171, 107227. [Accepted 9 August 2021, IF: 3.744(2020)]
4. Suraya Zulkepli, Hwei Voon Lee, Noorsaadah Abd Rahman, Ling Tau Chuan, **Pau Loke Show**, Wei-Hsin Chen, Joon Ching Juan\*. (2022) “Highly active iron-promoted hexagonal mesoporous silica (HMS) for deoxygenation of triglycerides to green hydrocarbon-like biofuel” Fuel, 308, 121860. [Accepted 27 August 2021, IF: 6.609(2020)]
5. Jung Eun Lee, Ki-Joon Jeon, **Pau Loke Show**, Sang-Chul Jung, Yong Jun Choi, Gwang Hoon Rhee, Kun-Yi Andrew Lin, Young-Kwon Park\*. (20222) “Mini review on H2 production from electrochemical water splitting according to special nanostructured morphology of electrocatalysts” Fuel, 308, 122048. [Accepted 17 September 2021, IF: 6.609(2021)]
6. Sook Sin Chan, Kuan Shiong Khoo, Kit Wayne Chew, Tau Chuan Ling, **Pau Loke Show**\*. (2022) “Recent advances biodegradation and biosorption of organic compounds from wastewater: microalgae-bacteria consortium-A Review” Bioresource Technology, 344, 126159. [Accepted 14 October 2021, IF: 9.642(2020)]

**2021**

1. Kuan Shiong Khoo, Yen Mun Chong, Wen Sing Chang, Jie Min Yap, Su Chern Foo, Ianatul Khoiroh, Phei Li Lau, Kit Wayne Chew, Chien Wei Ooi\*, **Pau Loke Show**\*. (2021). “Permeabilization of Chlorella sorokiniana and extraction of lutein by distillable CO2-based alkyl carbamate ionic liquids” Separation and Purification Technology, 256, 117471. [Accepted 26 July 2020; IF: 5.774(2019)]
2. Phei Er Kee, Lie San Cheah, Pik Ki Wan, **Pau Loke Show**, John Chi-Wei Lan\*, Yin Hui Chow, Hui Suan Ng\*. (2021). “Primary capture of Bacillus subtilis xylanase from crude feedstock using alcohol/salt liquid biphasic flotation” Biochemical Engineering Journal, 165, 107835. [Accepted 20 October 2020; IF: 3.475(2019)]
3. Chiu-Yue Lin, Chyi-How Lay\*, Kit Wayne Chew, Saifuddin Nomanbhay, Rui-Lin Gu, Shen-Ho Chang, Gopalakrishnan Kumar, **Pau Loke Show**\*. (2021). “Biogas production from beverage factory wastewater in a mobile bioenergy station” Chemosphere, 264, 128564. [Accepted 5 October 2020; IF: 5.778(2019)]
4. Wei-Hsin Chen\*, Bo-Jhih Lin, Yu-Ying Lin, Yen-Shih Chu, Aristotle T Ubando, **Pau Loke Show**, Hwai Chyuan Ong, Jo-Shu Chang, Shih-Hsin Ho, Alvin B Culaba, Anélie Pétrissans, Mathieu Pétrissans. (2021). “Progress in biomass torrefaction: Principles, applications and challenges” Progress in Energy and Combustion Science, 82, 100887. [Accepted 10 October 2020; IF: 28.938(2019)]
5. Shin Ying Foong, Yi Herng Chan, Wai Yan Cheah, Noor Haziqah Kamaludin, Tengku Nilam Baizura Tengku Ibrahim, Christian Sonne, Wanxi Peng, **Pau-Loke Show**, Su Shiung Lam\*. (2021). “Progress in waste valorization using advanced pyrolysis techniques for hydrogen and gaseous fuel production” Bioresource Technology, 320, 124299 [Accepted 15 October 2020; IF: 7.539(2019)]
6. K Rambabu, G Bharath, A Thanigaivelan, DB Das, **Pau Loke Show**\*, Fawzi Banat. (2021). “Augmented biohydrogen production from rice mill wastewater through nano-metal oxides assisted dark fermentation” Bioresource Technology, 319, 124243. [Accepted 7 October 2020; IF: 7.539(2019)]
7. Do Thi Tuyen\*, Guo Yong Yew, Nguyen Tien Cuong, Le Thanh Hoang, Hoang Thi Yen, Phan Thi Hong Thao, Nguyen Thi Thao, Nguyen Sy le Thanh, Nguyen Thi Hien Trang, Nguyen Thi Trung, Ruqayya Afridi, Dao Thi Mai Anh, **Pau Loke Show\***. (2021) "Selection, purification, and evaluation of acarbose− an α-glucosidase inhibitor from Actinoplanes sp.” Chemosphere, 265, 129167. [Accepted 28 November 2020; IF: 6.306(2019)]
8. Wai Siong Chai, Wee Gee Tan, Heli Siti Halimatul Munawaroh, Vijai Kumar Gupta, Shih-Hsin Ho, **Pau Loke Show**\*. (2021) “Multifaceted roles of microalgae in the application of wastewater biotreatment: A review” Environmental Pollution, 269, 116236. [Accepted 4 December 2020, IF: 6.792(2019)]
9. Yang Tao, Dandan Li, Wai Siong Chai, **Pau Loke Show**, Xuhai Yang, Sivakumar Manickam, Guangjie Xie, Yongbin Han\*. (2021) “Comparison between airborne ultrasound and contact ultrasound to intensify air drying of blackberry: Heat and mass transfer simulation, energy consumption and quality evaluation” Ultrasonics Sonochemistry, 72, 105410. [Accepted 12 November 2020; IF: 6.513(2019)]
10. D Vallejo-Domínguez, E Rubio-Rosas, E Aguila-Almanza, H Hernández-Cocoletzi\*, ME Ramos-Cassellis, ML Luna-Guevara, K Rambabu, Sivakumar Manickam, Heli Siti Halimatul Munawaroh, **Pau Loke Show**\*. (2021) “Ultrasound in the deproteinization process for chitin and chitosan production” Ultrasonics Sonochemistry, 72, 105417. [Accepted 28 November 2020; IF: 6.513(2019)]
11. Kuan Shiong Khoo, Chien Wei Ooi, Kit Wayne Chew, Su Chern Foo, **Pau Loke Show**\*. (2021) “Bioprocessing of Chaetoceros calcitrans for the recovery of fucoxanthin using CO2-based alkyl carbamate ionic liquids” Bioresource Technology, 322, 124520. [Accepted 4 December 2020; IF: 7.539(2019)]
12. Sami Ullah\*, Abdullah G Al-Sehemi, Muhammad Mubashir, Ahmad Mukhtar, Sidra Saqib, Mohamad Azmi Bustam, Chin Kui Cheng, Muhammad Ibrahim, **Pau Loke Show**\*. (2021) “Adsorption Behavior of Mercury over Hydrated Lime: Experimental Investigation and Adsorption Process Characteristic Study” Chemosphere, 271, 129504. [Accepted 28 December 2020; IF: 5.778(2019)]
13. Thanigaivelan Arumugham\*, K Rambabu, Shadi W Hasan, **Pau Loke Show**\*, Jörg Rinklebe, Fawzi Banat\*. (2021) “Supercritical carbon dioxide extraction of plant phytochemicals for biological and environmental applications–A review” Chemosphere, 271, 129525. [Accepted 29 December 2020; IF: 5.778(2019)]
14. Parashuram Kallem\*, Yazan Ibrahim, Shadi W Hasan, **Pau Loke Show**, Fawzi Banat\*. (2021) “Fabrication of novel polyethersulfone (PES) hybrid ultrafiltration membranes with superior permeability and antifouling properties using environmentally friendly sulfonated functionalized polydopamine nanofillers” Separation and Purification Technology, 261, 118311. [Accepted 3 January 2021; IF: 5.774(2019)]
15. Muhammad Babar\*, Ahmad Mukhtar, Muhammad Mubashir, Sidra Saqib, Sami Ullah, Abul Hassan Ali Quddusi, Mohamad Azmi Bustam, **Pau Loke Show**\*. (2021) “Development of a novel switched packed bed process for cryogenic CO2 capture from natural gas” Process Safety and Environmental Protection, 147, 878-887. [Accepted 3 January 2021; IF: 4.966 (2019)]
16. Kuan Shiong Khoo, Chien Wei Ooi\*, Kit Wayne Chew, Su Chern Foo, Jun Wei Lim, Yang Tao, Ning Jiang, Shih-Hsin Ho\*, **Pau Loke Show**\*. (2021) “Permeabilization of Haematococcus pluvialis and solid-liquid extraction of astaxanthin by CO2-based alkyl carbamate ionic liquids” Chemical Engineering Journal , 128510. [Accepted 9 January 2021; IF: 10.652(2019)]
17. Jasmine JillJia Yi Yong, Kit Wayne Chew, Kuan Shiong Khoo, **Pau Loke Show**\*, Jo-Shu Chang\*. (2021) “Prospects and development of algal-bacterial biotechnology in environmental management and protection” Biotechnology Advances, 47, 107684. [Accepted 22 December 2020; IF: 10.744(2019)]
18. **Pau Loke Show**. (2021) “Special Issue on “Biotechnology for Sustainability and Social Well Being”” Processes, 9(2), 216. [Accepted: 22 January 2021; IF: 2.753 (2019)]
19. Sadia Arif, Hira Saqib, Muhammad Mubashir, Shaukat Iqbal Malik\*, Ahmad Mukhtar, Sidra Saqib, Sami Ullah, **Pau Loke Show**\*. (2021) “Comparison of Nigella Sative and Trachyspermum Ammi via Experimental Investigation and Biotechnological Potential” Chemical Engineering and Processing-Process Intensification, 108313. [Accepted 19 January 2021; IF: 3.731(2019)]
20. Yoong Kit Leong, Kit Wayne Chew, Wei-Hsin Chen, Jo-Shu Chang\*, **Pau Loke Show**\*. (2021) “Reuniting the Biogeochemistry of Algae for a Low-Carbon Circular Bioeconomy” Trends in Plant Science. [Accepted 19 December 2020, IF: 14.416(2019)]
21. **Pau Loke Show**, Suchithra Thangalazhy-Gopakumar, Dominic CY Foo. (2021) “Sustainable technologies for waste reduction and pollutants removals” Clean Technologies and Environmental Policy, 23, 1-2. [Published: 14 January 2021; IF: 2.429(2019)]
22. Yue Wu, Sujin Li, Yang Tao\*, Dandan Li, Yongbin Han\*, **Pau Loke Show**, Guangzhong Wen, Jianzhong Zhou. (2021) “Fermentation of blueberry and blackberry juices using Lactobacillus plantarum, Streptococcus thermophilus and Bifidobacterium bifidum: Growth of probiotics, metabolism of phenolics, antioxidant capacity in vitro and sensory evaluation” Food Chemistry, 348, 129083. [Accepted 7 January 2021; IF: 6.306(2019)]
23. Vishno Vardhan Devadas, Kuan Shiong Khoo, Wen Yi Chia, Kit Wayne Chew, Heli Siti Halimatul Munawaroh, Man-Kee Lam, Jun-Wei Lim, Yeek-Chia Ho, Keat Teong Lee, **Pau Loke Show**\*. (2021) “Algae biopolymer towards sustainable circular economy” Bioresource Technology, 124702. [Accepted 7 January 2021; IF: 7.539(2019)]
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