



CURRICULUM VITAE



Prof. Dr. Luqman Chuah Abdullah@Chuah Teong Guan

Department of Chemical and Environmental Engineering,
Faculty of Engineering,
Universiti Putra Malaysia,
43400 UPM Serdang, Selangor
Tel: +60-3-97696288
Fax: +60-3-86567120
Email: chuah@upm.edu.my

ORCID: orcid.org/0000-0003-4785-9296

Education

1. PhD Chemical Engineering, 2000, University of Birmingham. UK.
2. BSc. Chemical Engineering, 1994, Universiti Teknologi Malaysia.

Areas of Interest

1. Separation Technology (Adsorption, filtration, mechanical separation, distillation, extraction etc.)
2. Material Engineering (nanoparticles, polymers, bio- and nano-composites, ceramics, coating etc.)
3. Particle Technology (drying, crystallization, fluidization, nanofluid etc.)
4. Environmental Engineering
5. Bioprocess Engineering
6. Phytochemical Engineering

Professional Services/ Positions (selected)

1. **Editor in Chief**, Pertanika Journal of Science and Technology, 2020-2022
2. **Malaysian Qualifications Register Auditor**, 2012- current
3. Programme External Examiner for Master and PhD in Chemical Engineering, Xiamen Universiti Malaysia, 2021.
4. **External Evaluation Committee** for Joint Master'd Degree Sustainability and Environmental Science Program, UTM MJIT, Malaysia- University of Tsukuba, Japan.

4. **Prograame External Examiner** for School of Chemical and Energy Engineering, 2019-2021
4. **Member of Board of Study (BOS)** for Bachelor of Biotechnology Engineering, International Islamic University Malaysia (IIUM), 2019-2021.
6. **Editorial Borad Member**, Journal of Chemistry, Hindawi Publisher (ISI Q3 Journal), 2016- current.
7. Advisor for INTROP, UPM, 2014-current.

Recognition

1. Selected as a **World Top 2% Scientists (Career-Long Citation Indexed)**, Stanford University, USA.
2. Selected as a **World Top 2% Scientists (Citation Impact in Single calendar Year, 2019)**, Stanford University, USA.
3. **Malaysia Rising Star Award** by Ministry of Higher Education, Malaysia, 2015.
4. Selected as **Top 1% Globally Most Cited Researcher** (Cluster: Chemistry) by Thomson Reuters, 2015.
5. **Top Research Scientists Malaysia (TRSM)** by Academic Science Malaysia, 2013.
6. Awarded **5 Stars and Role Model Supervisors in Universiti Putra Malaysia**. School of Graduate Studies, UPM, 2013.
7. **Best Paper Award on Acoustic & Thermal Properties Track**. 1st International Conference on Food Properties (iCFP2014), Kuala Lumpur.
8. **Ir. Thean Lip Thong Prize for Best Technical Paper Award**-Jolius Gim bun, Thomas S. Y. Choong, A. Fakhru'l-Razi, T.G. Chuah (2008). Evaluation on Empirical models for the Prediction of Cyclone Efficiency, *IEM Journal*, 67 (3), 29-33. Institution of Engineers Malaysia (IEM), 2007.
9. **Raja Tan Sri Zainal Prize** on Best Technical Paper: T G Chuah, J P K Seville and C J Withers (2005). "Numerical Modelling on Rigid Ceramic Filters", *IEM Journal*, 66 (1), 29-35, Institution of Engineers Malaysia (IEM), 2006.
10. **Young Engineer Award 2006**, Institution of Engineers Malaysia (IEM), 2006.

Researcher Ranking

- H-index: **45** (Scopus); **37** (Google Scholar); **41** (Web of Science Researcher)
- Total citations: **8561** (Scopus); **7449** (Google Scholar); **7574** (Web of Science Researcher)

Appointments

Position	Duration
1. Professor (VK6), Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM	2018 to date
2. Professor (VK7), Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM	2011-2017
3. Deputy Dean, International and Industrial Relationship Unit, School of Graduate Studies, UPM.	2012– 2014
4. Associate Professor, Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM	2006- 2011
5. Head, Laboratory of Biopolymers and Derivatives (BADs), Institute of Tropical Forestry and Forest Products (INTROP), UPM	2006-2011
6. Lecturer, Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM	2000- 2005
7. Tutor, Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM	1996- 2000
8. Production Engineer, Southern Mesh Sdn Bhd, Shah Alam, Selangor.	1994-1995

Publications

Journals(2002-current)

Year 2021

1. Zhou Huaxu, Lee Seng Hua, Paridah Md Tahir, Zaidon Ashaari, Syeed SaifulAzry Osman Al-Edrus, Nor Azowa Ibrahim, **Luqman Chuah Abdullah** and Siti Fatahiyah Mohamad (2021). Physico-mechanical and biological durability of citric acidbonded rubberwood particleboard. *Polymers*, 13, 98. (ISI/Scopus Cited, Impact Factor 4.329).

2. Norsuhaili Kamairudin, Seng Soi Hoong, **Luqman Chuah Abdullah**, Hidayah Ariffin, Dayang Radiah Awang Biak (2021). Optimization of epoxide ring-opening reaction for the synthesis of bio-polyol from palm oil derivative using response surface methodology. *Molecules*. 26(3), 648. (ISI/Scopus Cited, Impact Factor 4.411).
3. Sariah Saalah, **Luqman Chuah Abdullah**, Min Min Aung, Mek Zah Salleh, Dayang Radiah Awang Biak, Mahiran Basri, Emiliana Rose Jusoh, Suhaini Mamat, Syeed SaifulAzry Osman Al Edrus (2021). Effect of polyol OH number on chemical and thermo-mechanical properties of waterborne polyurethane films derived from jatropha oil. *Polymers*, 13, 795. (ISI/Scopus Cited, Impact Factor 4.329).
4. Mohamad Ridzuan Amri, Syeed Saifulazry Osman Al-Edrus, **Chuah Teong Guan**, Faizah Md Yasin and Lee Seng Hua (2021). Jatropha oil as a substituent for palm oil in biobased polyurethane. *International Journal of Polymer Science*. Volume 2021, Article ID 6655936. (ISI/Scopus Cited, Impact Factor 2.642).
5. Osman Al Edrus, Syeed Saifulazry; **Teong Guan, Chuah**; Tahir, Paridah; Aung, Min; Amri, Mohd Ridzuan; Hao, Lee; Saalah, Sariah; Hua, Lee; Halip, Juliana (2020). Influence of cellulose II polymorph nanowhiskers on bio-based nanocomposite film from Jatropha oil polyurethane. *Materials Research Express*. 8, 015003 (ISI/Scopus Cited, Impact Factor 1.620).
6. Shihab Ezzuldin M. Saber Almohamedabas, Siti Nurul Ain Md. Jamil, **Luqman Chuah Abdulla**, Thomas Shean Yaw Choong, Ting Teo Ming (2021). Insights into the p-Nitrophenol adsorption by Amidoxime-Poly(Acrylonitrile-co-Acrylic Acid): Characterization, kinetic, isotherm, thermodynamic, regeneration and mechanism study. *RSC Advances*. 11, 8150–8162. (ISI/Scopus Cited, Impact Factor 3.361).
7. Siti Fatahiyah Mohamad, Hasnul Nizam Osman, Muhamad Nurfalah bin Karoji, Pairu Ibrahim, Syeed Saifulazry Osman Al Edrus, Lee Seng Hua, Nik Muhammad Faris Hakimi Abd Rahim and **Chuah Teong Guan** (2021). Insight on the properties of thermoplastic elastomer-based natural rubber and recycled rubber post-treated with electron beam irradiation. *Materials Research Express*, 8(2), 025302. (ISI/Scopus Cited, Impact Factor 1.620).
8. Ching Hao Lee, F. N. M. Padzil, S. H. Lee, Z. M. A. Ainun, **L. C. Abdullah** (2021). Potential of kenaf fibers reinforcements in PLA polymer filaments for fused deposition modelling (FDM) additive manufacturing: A review. *Polymers*, 13, 1407. (ISI/Scopus Cited, Impact Factor 3.060).
9. Mohamad Ridzuan Amri, **Luqman Chuah Abdullah**, Syeed SaifulAzry Osman Al Edrus, Faizah Mohd Yasin, Siti Fatahiyah Mohamad (2021). Effect of cellulose nanofibrils on properties of jatropha oil-based waterborne polyurethane nanocomposite film. *Polymers*, 13, 1460. (ISI/Scopus Cited, Impact Factor 4.329).
10. Mahat. S.B., Omar. R., Che Man. H., Mohamad Idris A.I., Mustapa Kamal S.M., Idris. A., Shreeshivadasan. C. Jamali. N. S., **Abdullah. L.C.** (2021). Performance of dynamic anaerobic membrane bioreactor (DAnMBR) with phase separation in treating high strength food processing wastewater. *Journal of Environmental Chemical Engineering*, 9, 105718. (ISI/Scopus Cited, Impact Factor 5.909).
11. Haider Jaafar Chilabi, Hanim Salleh, Waleed Al-Ashtari, E. E. Supeni, **Luqman Chuah Abdullah**, Azizan B. As'arry, Khairil Anas Md Rezali, Mohammad Khairul Azwan (2021). Rotational piezoelectric energy harvesting: A comprehensive review on excitation elements, designs, and performances. *Energies*, 14, 3098. <https://doi.org/10.3390/en14113098>. (ISI/Scopus Cited, Impact Factor 2.702).

12. Siti Noor Kamilah Mohamad, Irmawati Ramli, **Luqman Chuah Abdullah**, Nor Hasimah Mohamed, Md. Saiful Islam, Nor Azowa Ibrahim, I. Nor Shafizah (2021). Evaluation on structural properties; performances of graphene oxide incorporated into chitosan/poly-lactic acid composites: CS/PLA vs. CS/PLA-GO. *Polymers*, 13, 1839. (ISI/Scopus Cited, Impact Factor 4.329).
13. N. Abdul Latiff, **L. C. Abdullah**, Pei Ying Ong, A. Amin (2020). Thin-layer drying model of *Cosmos caudatus* (*C. caudatus*). *Chem. Ind. Chem. Eng. Q.*, 27 (2) 199–206. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.720).
14. Kit Ling Chin, Paik San H'ng, Chuan Li Lee, Wan Zhen Wong, Wen Ze Go, Pui San Khoo, **Abdullah Chuah Luqman**, Zaidon Ashaari (2021). Application strategies by selective medium treated with entomopathogenic bacteria *Serratia marcescens* and *Pseudomonas aeruginosa* as potential biocontrol against *Coptotermes curvignathus*. *Royal Society Open Science*, 8, 201311. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.647).
15. Mohd Azrie Awang, Lee Suan Chua, **Luqman Chuah Abdullah**, Kar Yong Pin (2021). Drying kinetics and optimization of quercetrin extraction from *Melastoma malabathricum* leaves. *Chemical Engineering & Technology*. 44(7), 1214-1220. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.728).
16. Soo J. W., **Abdullah L. C.**, Jamil, S. N. A. M. and Adeyi A. A. Adeyi (2021). Sequestration of p-nitrophenol from liquid phase by poly(acrylonitrile-co-acrylic acid) containing thioamide group. *Water Science and Technology*, 84 (1),237–250. (ISI/Scopus Cited, Impact Factor 1.915).
17. Noerhidajat Sjahro, Robiah Yunus, **Luqman Chuah Abdullah**, Suraya Abd. Rashid, Ahmad Jaril Azis, Z.N. Akhlisah (2021). Recent advances in the application of cellulose derivatives for contaminants removal from aquatic environments. *Cellulose*, 28, 7521–7557. (ISI/Scopus Cited, Impact Factor 4.210).
18. Lee, C. L., Chin, K. L., H'ng, P. S. E., Khoo, P. S., and **Chuah, L. A.** (2021). Enhanced properties of single-layer particleboard made from oil palm empty fruit bunch fibre with additional water-soluble additives. *BioResources*, 16(3), 6159-6173. (ISI/Scopus Cited, Impact Factor 1.614).
19. Zakiah Sobri, Ainun Zuriyati Mohamed Asa'ari, Norzita Yacob, Paik San H'ng, **Luqman Chuah Abdullah**, and Edi Syams Zainudin (2021). *In situ* biosynthesis of zinc oxide on bamboo bleached pulp in preparation of antibacterial paper: Effect of precursors addition. *BioResources*. 16(3), 6121-6134. (ISI/Scopus Cited, Impact Factor 1.614).
20. Nurul Huda Mudri, **Luqman Chuah Abdullah**, Min Min Aung, Dayang Rabiah Awang Biak, Rida Tajau (2021). Structural and rheological properties of non-edible vegetable oil-based resin. *Polymers*, 13, 2490 (ISI/Scopus Cited, Impact Factor 4.329).
21. Wen Ze Go, Kit Ling Chin, Paik San H'ng, Mui Yun Wong, **Chuah Abdullah Luqman**, Arthy Surendran, Geok Hun Tan, Chuan Li Lee, Pui San Khoo, Wai Jern Kong (2021). Virulence of *Rigidoporus microporus* Isolates Causing White Root Rot Disease on Rubber Trees (*Hevea brasiliensis*) in Malaysia. *Plants*, accepted. 2490 (ISI/Scopus Cited, Impact Factor 3.935).
22. Norliza Abdul Latiff, Pei Ying Ong, **Luqman Chuah Abdullah**, Siti Nor Azlina Abd Rashid, Noor Akhmazillah Mohd Fauzi and Noor Amaiza Mohd Amin (2021). Ultrasonic-assisted extraction (uae) for enhanced recovery of targeted bioactive phenolic compound from *cosmos caudatus* leaves and bioactivity. *Scientific Report*. Accepted. (ISI/Scopus Cited, Impact Factor 4.379).

23. Shihab Ezzuldin M. Saber Almohamedabas, **Luqman Chuah Abdullah**, Siti Nurul Ain Md. Jamil, Thomas Shean Yaw Choong, Ting Teo Ming (2021). Trimethylamine functionalized radiation-induced grafted polyamide 6 fibers for p-nitrophenol adsorption. *Scientific Report*. Accepted. (ISI/Scopus Cited, Impact Factor 4.379).

Year 2020

24. Nurul Hidayah Abdullah, Kamyar Shamel, Pooria Moozarm Nia, Mohammad Etesami, Ezzat Chan Abdullah, **Luqman Chuah Abdullah** (2020). Electrocatalytic activity of starch/Fe₃O₄/zeolite bionanocomposite for oxygen reduction reaction. *Arabian Journal of Chemistry*, 13(1), 1297-1308. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 4.762).
25. Zulina Abd Maurad, **Luqman Chuah Abdullah**, Mohd Shamsul Anuar, Nor Nadiah Abdul Karim Shah, Zainab Idris (2020). Preparation, characterization, morphological and particle properties on crystallized palm-based methyl ester sulphonates (MES) powder. *Molecules*, 25, 2629; doi:10.3390/molecules25112629. (ISI/Scopus Cited Publication, Impact Factor 3.267).
26. Abel Adekanmi Adeyi, Siti Nurul Ain Md Jamil, **Luqman Chuah Abdullah**, Thomas Shean Yaw Choong, Kia Li Lau and Nor Halaliza Alias (2020). Simultaneous adsorption of malachite green and methylene blue dyes in a fixed-bed column using poly(acrylonitrile-co-acrylic acid) modified with thiourea. *Molecules*. 25, 2650; doi:10.3390/molecules25112650 (ISI/Scopus Cited, Impact Factor 3.060).
27. Nur Amirah Asifa Raisha Zahari, Gun Hean Chong, **Luqman Chuah Abdullah** and Bee Lin Chua (2020). Ultrasonic-assisted extraction (UAE) process on thymol concentration from *Plectranthus amboinicus* leaves: Kinetic modeling and optimization. *Processes*, 8 (3), 322; doi:10.3390/pr8030322. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.753).
28. Murtada Abdulredha, Siti Aslina Hussain, **Luqman Chuah Abdullah** (2020). Overview on petroleum emulsions, formation, influence and demulsification treatment techniques. *Arabian Journal of Chemistry*. 13(1), 3403-3428. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.298).
29. Debarati Dey, Debashis De, Ferial Ghaemi, Ali Ahmadian, and **Luqman Chuah Abdullah** (2020). Circuit level modeling of electrically doped adenine–thymine nanotube-based field effect transistor. *IEEE Access*, 8, 6168-6176. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 4.098).
30. Suhanna Natalya Mohd Suhaimy and **Luqman Chuah Abdullah** (2020). Removal of methylene blue from aqueous solution by using electrical arc furnace (EAF) slag. *Indones. J. Chem.*, 20 (1), 113 – 119. (SCOPUS Cited Publication).
31. Nur Syafiqah Shaipulizan, Siti Nurul Ain Md Jamil, Sazlinda Kamaruzaman, Nur Nida Syamimi Subri, Abel Adekanmi Adeyi, Abdul Halim Abdullah and **Luqman Chuah Abdullah** (2020). Preparation of ethylene glycol dimethacrylate (EGDMA)-based terpolymer as potential sorbents for pharmaceuticals adsorption. *Polymers*, 12(2), 423. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.164).
32. Marwah Rayung, Min Min Aung, Shah Christirani Azhar, **Luqman Chuah Abdullah**, Mohd Sukor Su'ait, Azizan Ahmad and Siti Nurul Ain Md Jamil (2020). Bio-based polymer electrolytes for electrochemical devices: Insight into the ionic conductivity performance. *Materials*.13, 838. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.972).

33. Lau Kia Li, Siti Nurul Ain Md. Jamil, **Luqman Chuah Abdullah**, Nik Nor Liyana Nik Ibrahim, Adeyi Abel Adekanmi, Mohsen Nourouzi (2020). Application of feed-forward and recurrent neural network in modelling the adsorption of boron by amidoxime-modified poly(Acrylonitrile-co-Acrylic Acid). *Environ. Eng. Res.*, 25(6), 830-840 (ISI/Scopus Cited, Impact Factor 1.087).
34. Farah Nadia Mohammad Padzil, Seng Hua Lee, Zuriyati Mohamed Asa'ari Ainun, Ching Hao Lee and **Luqman Chuah Abdullah** (2020). Superabsorbent nanocellulose hydrogel from oil palm empty fruit bunch for various versatile applications: A review. *Materials*. 13(5), 1245. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.972).
35. N S Nurdin, S Saalah, A T Lim, A Y Francis, **L Abdullah**, S SaifulAzry (2020). Effect of DMPA content on colloidal stability of jatropha oil-based waterborne polyurethane dispersion. *IOP Conf. Ser.: Mater. Sci. Eng.*, 778, 012107. (Scopus Cited Publication).
36. Masrat Rasheed, Mohammad Jawaid, Zoheb Karim and **Luqman Chuah Abdullah** (2020). Morphological, physicochemical and thermal properties of microcrystalline cellulose (MCC) extracted from bamboo fiber. *Molecules*. 25, 2824. (ISI/Scopus Cited, Impact Factor 3.060).
37. Marwah Rayung, Min Min Aung, Mohd Sukor Su'ait, **Luqman Chuah Abdullah**, Azizan Ahmad and Hong Ngee Lim (2020). Performance analysis of jatropha oil-based polyurethane acrylate gel polymer electrolyte for dye-sensitized solar cells. *ACS Omega*, 5, 14267–14274. (ISI/Scopus Cited Publication, Impact Factor 2.584).
38. Siew Sand Chee, Mohammad Jawaid, M.T.H. Sultan, Othman Y. Allothman, **Luqman Chuah Abdullah** (2020). Effects of nanoclay on physical and dimensional stability of bamboo/kenaf/nanoclay reinforced epoxy hybrid nanocomposites. *Journal of Materials Research and Technology*. 9(3), 5871-5880 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.327).
39. Nurul Huda Mudri, **Luqman Chuah Abdullah**, Min Aung, Mek Zah Salleh, Dayang Rabiah Awang Biak and Marwah Rayung (2020). Comparative study of aromatic and cycloaliphatic isocyanate effects on physico-chemical properties of bio-based polyurethane acrylate coatings. *Polymers*, 12, 1494. (ISI/Scopus Cited, Impact Factor 3.060).
40. Nur Nida Syamimi Subri, Siti Nurul Ain Md. Jamil, Peter A. G. Cormack, **Luqman Chuah Abdullah**, Sazlinda Kamaruzaman, Abel A. Adeyi (2020). The synthesis and characterisation of porous and monodisperse, chemically modified hypercrosslinked poly(acrylonitrile)-based terpolymer as a sorbent for the adsorption of acidic pharmaceuticals. *E-Polymers*. 20, 328–345. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.491).
41. Chai Kai Ling, Min Min Aung, **Luqman Chuah Abdullah**, Lim Hong Ngeeb, Hiroshi Uyama (2020). A short review of iodide salt usage and properties in dye sensitized solar cell application: Single vs binary salt system. *Solar Energy*. 206, 1033-1038. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 4.608).
42. K.L. Chai, I.M. Noor, M.M. Aung, **L.C. Abdullah**, M.Z. Kufian (2020). Non-edible oil-based polyurethane acrylate with tetrabutylammonium iodide gel polymer electrolytes for dye-sensitized solar cells. *Solar Energy*. 208, 457–468. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 4.608).
43. Pui San Khoo, Kit Ling Chin, Paik San H'ng, Chuan Li Lee, Edi Suhaimi Bakar, Zaidon Ashaari, **Luqman Chuah Abdullah**, and Seca Gandaseca (2020). Laminated veneer

lumber from spindleless rotary-2 peeled veneers produced from short rotation, small 3 hevea plantation logs: Effects of lamination pressure. *BioResources*. 15(3), 6735-6751. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.396).

44. M. F. A. Kamaroddin, N. Sabli, T. A. T. Abdullah, **L. C. Abdullah**, S. Izhar, A. Ripin and A. Ahmad (2020). Phosphoric acid doped composite proton exchange membrane for hydrogen production in medium-temperature copper chloride electrolysis. *International Journal of Hydrogen Energy*. 45, 22209 -22222 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 4.084).
45. Nurhanisah Othman, Siti Nurul Ain Md. Jamil, Mas Jaffri Masarudin, **Luqman Chuah Abdullah**, Rusli Daik, Nor Syazwani Sarman (2020). L-Ascorbic acid and thymoquinone dual-loaded palmitoyl-chitosan nanoparticles: Improved preparation method and encapsulation efficiency. *Processes*, 8, 1040. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.753).
46. Nur Haryani Zabaruddin, **Luqman Chuah Abdullah**, Nor Hasimah Mohamed and Thomas Shean Yaw Choong (2020). Optimization Using Response Surface Methodology (RSM) for Biodiesel Synthesis Catalyzed by Radiation-Induced Kenaf Catalyst in Packed-Bed Reactor. *Processes*, 8, 1289; doi:10.3390/pr8101289. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.753).
47. Kit Ling Chin, Paik San H'ng, Wan Zhen Wong, Chuan Li Lee, Pui San Khoo, **Abdullah Chuah Luqman**, Zaidon Ashaari and Seca Gandaseca (2020). Septicemia of subterranean termites *Coptotermes curvignathus* caused by disturbance of bacteria isolated from termite gut and its foraging pathways. *Royal Society Open Science*, 7(8), Article ID:200847. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.647).
48. Mohd Azwan Ahmad, Bidattul Syirat Zainal, Nashrah Hani Jamadon, Thomas Choong Shean Yaw and **Luqman Chuah Abdullah** (2020). Filtration analysis and fouling mechanisms of PVDF membrane for POME treatment. *Journal of Water Reuse and Desalination*. 10 (3), 187–199. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.000).
49. Siti Hasnah Kamarudin, **Luqman Chuah Abdullah**, Min Min Aung, Chantara Theyy Ratnam (2020). Thermal and structural analysis of epoxidized jatropha oil and alkaline treated kenaf fiber reinforced poly(lactic acid) biocomposites. *Polymers*, 12(11), 2604. (ISI/Scopus Cited, Impact Factor 3.060).
50. LiyanaYahya, Razif Harun and **Luqman Chuah Abdullah** (2020). Screening of native microalgae species for carbon fixation at the vicinity of Malaysian coal-fired power plant. *Scientific Reports*. 10, Article number: 22355 (2020). ISI/Scopus Cited, Impact Factor 4.011).
51. Latiff N.A., **Abdullah L.C.**, Ong P. Y., Embi K. and Malek S. A. (2020). The influence of drying temperature on the quality, morphology and drying characteristics of *Cosmos caudatus*. *IOP Conf. Ser.: Mater. Sci. Eng.* 991 012038. (Scopus Cited).
52. Nur Syafiqah Shaipulizan, Siti Nurul Ain Md Jamil, **Luqman Chuah Abdullah**, Thomas Shean Yaw Choong, Sazlinda Kamaruzaman, Nur Nida Syamimi Subri and Nurhanisah Othman (2020). Hypercrosslinked poly(AN-co-EGDMA-co-VBC): synthesis via suspension polymerization, characterizations, and potential to adsorb diclofenac and metformin from aqueous solution. *Colloid and Polymer Science*, 298, 1649–1667. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.536).
53. Murtada Abdulredha, Siti Aslina Hussain, **Luqman Chuah Abdullah** (2020). Optimization of the demulsification of water in oil emulsion via non-ionic surfactant by the response

surface methods. *Journal of Petroleum Science and Engineering*. 184, 106463. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.886).

54. Muhammad Mirza Ariffin, Min Min Aung, **Luqman Chuah Abdullah**, Mek Zah Salleh (2020). Assessment of corrosion protection and performance of bio-based polyurethane acrylate incorporated with nano zinc oxide coating. *Polymer Testing*, 87, 106526. (ISI/Scopus Cited, Impact Factor 2.943)
55. Nurul Hidayah Abdullah, Kamyar Shameli, Ezzat Chan Abdullah, **Luqman Chuah Abdullah** (2020). Low cost and efficient synthesis of magnetic iron oxide/activated sericite nanocomposites for rapid removal of methylene blue and crystal violet dyes. *Materials Characterization*, 163, 110275. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.220).
56. Faris Syahiran Ismail, Ainun Zuriyati Mohamed Asa'ari, Nur Aqeela Mohd Yussof, Lee Chin Hao, Farah Nadia Mohammad Padzil, Lee Seng Hua, **Luqman Chuah Abdullah** & Mohammad Jawaid (2020). Physical and mechanical properties of paper made from beaten empty fruit bunch fiber incorporated with microcrystalline cellulose. *Journal of Natural Fibers*. Accepted. doi.org/10.1080/15440478.2020.1779896 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.622).
57. Nur Amirah Mohd Zahri, Siti Nurul Ain Md Jamil, **Luqman Chuah Abdullah**, Sim Jia Huey, Mohsen Nourouzi Mobarekeh, Nur Salimah Mohd Rapeia and Thomas Choong Shean Yaw (2020). Central composite design of heavy metal removal using polymer adsorbent. *Journal of Applied Water Engineering and Research*, accepted, <https://doi.org/10.1080/23249676.2020.1831978>. (Scopus Cited).

Year 2019

58. Siew Sand Chee, Mohammad Jawaid, M.T.H. Sultan, Othman Y. Alotman, **Luqman Chuah Abdullah** (2020). Accelerated weathering and soil burial effects on colour, biodegradability and thermal properties of bamboo/kenaf/epoxy hybrid composites. *Polymer Testing*, 79, 106054. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.943).
59. Saba Rashidi, Rashmi W., **Luqman Chuah Abdullah**, Khalid M., Fakhru'l-Razi A. and Faizah M. Y. (2019). Stability enhancement of MWCNT/water nanofluids using PVA surfactant. *International Journal of Nanotechnology*. 16(11/12), 631-639 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.578).
60. Mohamad Rasool Malekbala, Soroush Soltani, Suraya Abdul Rashid, **Luqman Chuah Abdullah**, Umer Rashid, Imededdine Arbi Nehdi, Thomas Shean Yaw Choong and Siow Hwa Teo (2020). Optimization the process of chemically modified carbon nanofiber coated monolith via response surface methodology for CO₂ capture. *Materials*, 13, 1775. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.972).
61. Siti Hasnah Kamarudin, **Luqman Chuah Abdullah**, Min Min Aung, Chantara Theyu Ratnam (2019). Mechanical and physical properties of kenaf-reinforced poly(lactic acid) plasticized with epoxidized jatropha oil. *BioResources*. 14 (4), 9001-9020. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.396).
62. Nurul Hidayah Abdullah, Kamyar Shameli, Ezzat Chan Abdullah, **Luqman Chuah Abdullah** (2019). Solid matrices for fabrication of magnetic iron oxide nanocomposites: Synthesis, properties, and application for the adsorption of heavy metal ions and dyes. *Composites Part B: Engineering*. 162, 538-568. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 6.864).

63. Marwah Rayung, Min Min Aung, Azizan Ahmad, Mohd Sukor Su'ait, **Luqman Chuah Abdullah**, Siti Nurul Ain Md Jamil (2019). Characteristics of ionically conducting jatropa oil based-polyurethane acrylate gel polymer electrolyte doped with potassium iodide salt. *Materials Chemistry and Physics*. 222, 110–117 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.781).
64. Siong Hoong Lee, Thomas S. Y. Choong, **Luqman Chuah Abdullah**, Mus'ab Abdul Razak, Zhen Hong Ban (2019). Experimental and CFD modelling: Impact of inlet slug flow on horizontal gas-liquid separator. *Energies*. 12, 41; doi:10.3390/en12010041. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.707).
65. Sin Yee Lee, **Luqman Chuah Abdullah**, Russly AbdulRahman, FaridahAbas, Gun Hean Chong (2019). Role of polymers as crystal growth inhibitors in coprecipitation via solution-enhanced dispersion by supercritical fluids (SEDS) to improve andrographolide dissolution from standardized *Andrographis paniculata* extract. *Journal of Drug Delivery Science and Technology*. 50, 145-154. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.606).
66. S. Y. Lee, **L. Chuah Abdullah**, R. A. Rahman, F. Abas and G. H. Chong (2019). Stability and toxicity profile of solution enhanced dispersion by supercritical fluids (SEDS) formulated *Andrographis Paniculata* extract. *Brazilian Journal of Chemical Engineering*. 36(2), 969 – 978. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.021).
67. Reza Zolfaghari, **Luqman C. Abdullah**, Dayang R.A. Biak, and Shahidan Radiman (2019). Cationic surfactants for demulsification of produced water from alkaline-surfactant-polymer flooding. *Energy & Fuels*. 33(1), 115–126. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.421).
68. Abel A. Adeyi, Siti N. A. M. Jamil, **Luqman C. Abdullah**, and Thomas S. Y. Choong (2019). Adsorption of malachite green dye from liquid phase using hydrophilic thiourea-modified poly(acrylonitrile-co-acrylic acid): Kinetic and isotherm studies. *Journal of Chemistry*, vol. 2019, Article ID 4321475, 14 pages, 2019. <https://doi.org/10.1155/2019/4321475>. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.727).
69. Siew Sand Cheea, Mohammad Jawaida, M.T.H. Sultana, Othman Y Alothman, **Luqman Chuah Abdullah** (2019). Thermomechanical and dynamic mechanical properties of bamboo/woven kenaf mat reinforced epoxy hybrid composites. *Composites Part B: Engineering*. 163, 165-174. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 6.864).
70. Nur Haryani Zabaruddin, Nor Hasimah Mohamed, **Luqman Chuah Abdullah**, Masao Tamada, Yuji Ueki, Noriaki Seko, Thomas Shean YawChoong (2019). Palm oil-based biodiesel synthesis by radiation-induced kenaf catalyst packed in a continuous flow system. *Industrial Crops and Products*. 136, 102-109. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 4.191).
71. Ayu Haslija Abu Bakar, **Luqman Chuah Abdullah**, Nur Amirah Mohd Zahri and Ma'an Fahmi R. AlKhatibb (2019). Column efficiency of fluoride removal using quaternized palm kernel shell (QPKS). *International Journal of Chemical Engineering*. Volume 2019, Article ID 5743590. (SCOPUS Cited Publication).
72. Siti Hasnah Kamarudin, Emiliana Rose Jusoh, **Luqman Chuah Abdullah**, Mohd Halim Shah Ismail, Min Min Aung and Chantara Theyv Ratnam (2019). Thermal and dynamics mechanical analysis of polypropylene blown films with crude palm oil as plasticiser. *Indonesian Journal of Chemistry*. 19 (3), 545 – 555. (SCOPUS Cited Publication).

73. Amer Eid Salem Eid Thafnan Alajmi, Nor Mariah Adam, Abdul Aziz Hairuddin, **Luqman Chuah Abdullah** (2019). Fuel atomization in gas turbines: A review of novel technology. *International Journal of Energy Research*. 43:3166–3181 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.343).
74. Rabiatuladawiyah Danial, Shafreeza Sobri, **Luqman Chuah Abdullah**, Mohsen Nourouzi Mobarekeh (2019). FTIR, CHNS and XRD analyses define mechanism of glyphosate herbicide removal by electrocoagulation. *Chemosphere*. 233, 559-569. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 5.778).
75. Abel Adekanmi Adeyi, Siti Nurul Ain Md Jamil, **Luqman Chuah Abdullah**, Thomas Shean Yaw Choong, Kia Li Lau, Mohammad Abdullah (2019). Adsorptive removal of methylene blue from aquatic environment using thiourea modified poly(acrylonitrile-co-acrylic acid). *Materials*, 12(11), 1734. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.972).
76. Abel A. Adeyi, Siti N. A. M. Jamil, **Luqman C. Abdullah**, and Thomas S. Y. Choong (2019). Preparation of hydrophilic thiourea modified poly(acrylonitrile-co-acrylic acid) adsorbent: Characterization and dye removal performance. *Iranian Polymer Journal*. 28(6), 483–491. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.707).
77. Abel Adekanmi Adeyi, Siti Nurul Ain Md Jamil, **Luqman Chuah Abdullah**, Thomas Shean Yaw Choong, Kia Li Lau and Mohammad Abdullah (2019). Simultaneous adsorption of cationic dyes from binary solutions by thiourea-modified poly(acrylonitrile-co-acrylic acid): Detailed isotherm and kinetic studies. *Materials*, 12(18), 2903. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.972).
78. Siew Sand Chee, Mohammad Jawaid, M. T. H. Sultan, Othman Y. Allothman, **Luqman Chuah Abdullah** (2019). Evaluation of the hybridization effect on the thermal and thermooxidative stability of bamboo/kenaf/epoxy hybrid composites. *Journal of Thermal Analysis and Calorimetry*. 137(1), pp 55–63. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.471).
79. Chai Kai Ling, Min Min Aung, Marwah Rayung, **Luqman Chuah Abdullah**, Hong Ngee Lim and Ikhwan Syafiq Mohd Noor (2019). Performance of ionic transport properties in vegetable oil-based polyurethane acrylate gel polymer electrolyte. *ACS Omega*, 4, 2554–2564. (SCOPUS Cited Publication).
80. Murtada Abdulredha, Siti Aslina Hussain, **Luqman Chuah Abdullah** (2019). Separation emulsion via non-ionic surfactant: An optimization. *Processes*, 7(6), 382. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.279).
81. M. F. A. Kamaruddin, N. Sabli, T. A. T. Abdullah, **L. C. Abdullah**, S. Izhar, A. Ripin and A. Ahmad (2019). Phosphoric acid doped polybenzimidazole and sulfonated polyether ether ketone composite membrane for hydrogen production in high temperature copper chloride electrolysis. *IOP Conf. Ser.: Earth Environ. Sci.*, 268, 012057. (SCOPUS Cited Publication).
82. Young Jun Hao, Saw Mei Huey, Yeoh Chee Beng, Sivaruby Kanagaratham, **Luqman Chuah Abdullah**, Thomas Choong Shean Yew (2019). The effects of polyglycerol esters on palm olein fractionation. *Journal of Oil Palm Research*. 31, 294-303. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.893).
83. Mohamad Rasool Malekbala, Soroush Soltani, Suraya Abdul Rashid, **Luqman Chuah Abdullah**, Thomas Shean Yaw Choong (2019). Study the effect of various wash-coated metal oxides over synthesized carbon nanofibers coated monolith substrates, *PLoS ONE* 14(7), e0219936. <https://doi.org/10.1371/journal.pone.0219936> (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.276).
84. Shazali, N.A.H.; Zaidi, N.E.; Ariffin, H.; **Abdullah, L.C.**; Ghaemi, F.; Abdullah, J.M.; Takashima, I.; Nik Abd. Rahman, N.M.A. (2019). Characterization and cellular

internalization of spherical cellulose nanocrystals (CNC) into normal and cancerous fibroblasts. *Materials*, 12, 3251. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.972).

85. Farhana Syakirah Ismail, Siti Nurul Ain Md. Jamil, Peter A. G. Cormack, **Luqman Chuah Abdullah**, Sazlinda Kamaruzaman, and Rusli Daik (2019). The synthesis and characterizations of porous thioamide-sulfonated-modified poly(acrylonitrile-co-divinylbenzene-80) as a potential sorbent to capture polar analytes. *Science of Advanced Materials*, 11, 1207–1222. (ISI Cited Publication, Journal Impact Factor, 1.158).
86. Sunday O.Omale, Thomas S.Y.Choong, **Luqman C. Abdullah**, Shamsul I.Siajam, Mun W.Yip (2019). Utilization of Malaysia EAF slags for effective application in direct aqueous sequestration of carbon dioxide under ambient temperature. *Heliyon*, 5 (10), e02602. (SCOPUS Cited Publication)
87. Mohd Fadhzir Ahmad Kamaroddin, Nordin Sabli, Tuan Amran Tuan Abdullah, **Luqman Chuah Abdullah**, Shamsul Izhar, Adnan Ripin, Arshad Ahmad (2019). Effect of temperature and current density on polybenzimidazole zirconium phosphate hybrid membrane in copper chloride electrolysis for hydrogen. *International Journal of Integrated Engineering*, 11(7), 182-189. (SCOPUS Cited Publication).
88. Abel A. Adeyi, Siti N. A. M. Jamil, **Luqman C. Abdullah**, and Thomas S. Y. Choong, Lau Kia Li (2019). Adsorption of malachite green in a fixed-bed columns by thiourea modified poly(acrylonitrile-co-acrylic acid). *Chemical Industry & Chemical Engineering Quarterly*. 25 (4), 383–393 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.806).
89. Syeed SaifulAzry Osman Al Edrus, Paridah Md Tahir, **Chuah Teong Guan**, Lee Seng Hua, Juliana Ab Halip, Lee Ching Hao (2019). Degradation of medium density fibreboard and particleboard mechanical performance after exposed to different environmental condition. *International Journal of Recent Technology and Engineering (IJRTE)*, 8(2S4), 528-532. (SCOPUS Cited Publication).
90. Syeed SaifulAzry Osman Al Edrus, Paridah Md Tahir, **Chuah Teong Guan**, Lee Seng Hua, Juliana Ab Halip, Lee Ching Hao (2019). Particleboard manufactured from rubberwood RRIM2002 clone planted with different fertilizer treatment. *International Journal of Recent Technology and Engineering (IJRTE)*, 8(2S4), 398-402. (SCOPUS Cited Publication).

Year 2018

91. F. Nurafifah, **A. Luqman Chuah**, M.A. Puteri Farah Wahida (2018). Drying of *Plectranthus amboinicus* (our) spreng leaves by using oven dryer. *Engineering in Agriculture, Environment and Food*. 11 (4), 239-244 (SCOPUS Cited Publication).
92. Sin Yee Lee, **Luqman Chuah Abdullah**, Russly Abdul Rahman, Faridah Abas, Wei Kiat Tan, Gun Hean Chong (2018). Solution enhanced dispersion by supercritical fluids (SEDS): An approach in particle engineering to modify aqueous solubility of andrographolide from *Andrographis paniculata* extract. *Chemical Engineering Research and Design*. 138, 176–189. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.795).
93. Nurhanisah Othman, Mas Jaffri Masarudin, Cha Yee Kuen, Nurul Azira, Dasuan, **Luqman Chuah Abdullah**, Siti Nurul Ain Md. Jamil (2018). Synthesis and optimization of chitosan nanoparticles loaded with Lascorbic acid and thymoquinone. *Nanomaterials*, 8, 920; doi:10.3390/nano8110920. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.504).
94. Siti Hasnah Kamarudin, **Luqman Chuah Abdullah**, Min Min Aung and Chantara Theyy Ratnam (2018). A study of mechanical and morphological properties of PLA based biocomposites prepared with ejo vegetable oil -based plasticiser and kenaf fibres.

Materials Research Express, 5(8), article number 085314. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.151).

95. Jasbir Singh Kunnan Singh, Yern Chee Ching, **Luqman Chuah Abdullah**, Kuan Yong Ching, Shaifulazuar Razali and Seng Neon Gan (2018). Optimization of mechanical properties for polyoxymethylene / glass fiber / polytetrafluoroethylene composites using response surface methodology. *Polymers*, 10, 338; doi:10.3390/polym10030338. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.364).
96. Nur Nida Syamimi Subri, Siti Nurul Ain Md. Jamil, Peter A.G. Cormack, **Luqman Chuah Abdullah**, Rusli Daik (2018). Synthesis of poly(acrylonitrile-co-divinylbenzene-co-vinylbenzyl chloride)-derived hypercrosslinked polymer microspheres and a preliminary evaluation of their potential for the solid-phase capture of pharmaceuticals. *Journal of Applied Polymer Science*, 135(2), 45677. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.860).
97. Mei Xiang Ng, Thing Chai Tham, Shu Hui Gan, Lee Suan Chua, Ramlan Aziz, Mohamed Redza Baba, **Luqman Chuah Abdullah**, Nyuk Ling Chin, Sze Pheng Ong & Chung Lim Law (2018). Clinacanthus nutans Lindau: Effects of drying methods on the bioactive compounds, colour characteristics and water activity. *Drying Technology*, 36(2), 146–159. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.976).
98. Mohammad Khalid Siddiqui, Chantara Theyy Ratnam, **Luqman Chuah Abdullah**, Rashmi Walvekar, Chin Yern Chee (2017). Mechanical and physical performance of cow dung-based polypropylene biocomposites. *Polymer Composites*. 39 (1), 288–296. doi:10.1002/pc.23928 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.324).
99. Fnyees S. M. D. A. Alajmi, Abdul Aziz Hairuddin, Nor Mariah Adam, **Luqman Chuah Abdullah** (2018). Recent trends in biodiesel production from commonly used animal fats. *International Journal of Energy Research*. 42 (3), 885–902. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.009).
100. Aameena Ali, Chien Hwa Chong, Siau Hui Mah, **Luqman Chuah Abdullah**, Thomas Shean Yow Choong, Bee Lin Chua (2018). Impact of storage conditions on the thermal and photo-stability of predominant phenolic constituents and antioxidant activity of dried Piper beetle's extracts. *Molecules*, 23 (2), article no: 484. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.861).
101. Mostafa Y., Mohammad Khalid, Faizah M.D., Mohammad Reza K., Hajalilou Abdollah, **Luqman Chuah A.** (2018). Performance of cow dung reinforced biodegradable poly(lactic acid) biocomposites for structural applications. *Journal of Polymers and the Environment*, 26(2), 474–486. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.877).
102. Thomas Shean Yaw Choong, Chiou Moi Yeoh, Eng-Tong Phuah, Wai-Lin Siew, Yee-Ying Lee, Teck-Kim Tang, **Luqman Chuah Abdullah** (2018). Kinetic study of lipase-catalyzed glycerolysis of palm olein using Lipozyme TLIM in solventfree system. *PLoS ONE* 13(2): e0192375. <https://doi.org/10.1371/journal.pone.0192375> (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.806)
103. Thing Chai Tham, Mei Xiang Ng, Gan Shu Hui, Lee Suan Chua, Ramlan Aziz, **Luqman Chuah Abdullah**, Sze Pheng Ong, Nyuk Ling Chin, Chung Lim Law (2018). Impacts of different drying strategies on drying characteristics, the retention of bio-active ingredient and colour changes of dried Roselle. *Chinese Journal of Chemical Engineering*. 26(2), 303-316. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.174).
104. Ahmed M.R.N. Alrashidi, Nor Mariah Adam, Abdul Aziz Hairuddin, **Luqman Chuah Abdullah** (2018). A review on plasma combustion of fuel in internal combustion engines. *Int J Energy Res*. 42, 1813–1833. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.598).

105. Intidhar Jabir Idan, Siti Nurul Ain Binti Md. Jamil, **Luqman Chuah Abdullah** and Thomas Shean Yaw Choong (2017). Equilibrium, kinetics and thermodynamic adsorption studies of acid dyes on adsorbent developed from kenaf core fiber. *Adsorption Science and Technology*. 36(1-2), 694-712. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.754).
106. Ferial Ghaemi, **Luqman Chuah Abdullah**, Hanieh Kargarzadeh, Mahnaz M Abdi, Nur Farhana Waheeda Mohd Azli and Maryam Abbasian (2018). Comparative study of the electrochemical, biomedical, and thermal properties of 2 natural and synthetic nanomaterials. *Nanoscale Research Letter*, 13 (58): 112. <https://doi.org/10.1186/s11671-018-2508-3>. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.125).
107. Nurjahirah Janudin, **Luqman Chuah Abdullah**, Norli Abdullah, Faizah M. Yasin, Norshafiqah Mohamad Saidi and Noor Azilah Mohd Kasim (2018). Characterization of amide and ester functionalized multiwalled carbon nanotubes. *Asian J. Chem.* 30(7), 1613-1616. (SCOPUS Cited Publication).
108. Lip Kean Moey, Nor Mariah Adam, Kamarul Arifin Ahmad, **Luqman Chuah Abdullah** (2018). Wind tunnel study of different roof geometry configurations for wind induced natural ventilation into stairwell in tropical climate. *International Journal of Applied Engineering Research*, 13(5), 2635-2647. (SCOPUS Cited Publication).
109. Mohsen Nourouzi, Atefeh Chamani, Mina Shirani, Pedram Malekpouri, **Luqman Chuah A.** (2018). Effect of Cd and Pb pollutions on physiological growth: Wavelet Neural Network (WNN) as a new approach on age determination of *Coenobita scaevola*. *Bulletin of Environmental Contamination & Toxicology*. 101 (3), 320-325. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.480).
110. Lim Jin Wei, Ong Teng Haan, Thomas Choong Shean Yaw, **Luqman Chuah Abdullah**, Mus'ab Abdul Razak, Tezara Cionita and Abdolreza Toudehdeghan (2018). Heavy metal recovery from electric arc furnace steel slag by using hydrochloric acid leaching. *E3S Web of Conferences*, 34, 02007(SCOPUS Cited Publication).
111. Sariah Saalah, **Luqman Chuah Abdullah**, Min Min Aung, Mek Zah Salleh, Dayang Radiah Awang Biak, Mahiran Basri, Emiliana Rose Jusoh, Suhaini Mamat (2018). Colloidal stability and rheology of jatropha oil-based waterborne polyurethane (JPU) dispersion. *Progress in Organic Coatings*. 125, 348-357. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.955).
112. M. Abdullah, R. A. Majid, **L. C. Abdullah**, M. F. Abdul-Wahab, M. Q. F. A. Aziz, N. H. M. Sabri, S. A. Hamdan¹, S. N. A. Zaiton, and S. H. A. Muhamad (2018). Functionalization of polyacrylonitrile-grafted cellulose with amidoxime and its antimicrobial property. *AIP Conference Proceedings* 2045, 020042. (SCOPUS Cited Publication).
113. Ferial Ghaemi and **Luqman Chuah Abdullah** (2018). Comparative study of cytotoxicity effect between cellulose nanocrystal and cellulose nanofiber. *Advances in Nanobiotechnology*, 1(1), 1-3 (Non-cited Publication).
114. Nurjahirah Janudina, Norli Abdullah, Faizah Md Yasin, Mohd Hanif Yaacob, Muhammad, Zamharir Ahmad, **Luqman Chuah Abdullah**, Raja Nor Izawati Raja Othman, Noor Aisyah Ahmad Syah, Shafreeza Sobri, Noor Azilah Mohd Kasim (2018). Carbon nanotubes-based gas sensor in detection of methane gas at room temperature. *ZULFAQAR International Journal of Defence Science, Engineering & Technology*. 1(2), 76-84. (My Jurnal-cited Publication).
115. Nurjahirah Janudina, Norli Abdullah, Faizah Md Yasin, Mohd Hanif Yaacob, Muhammad, Zamharir Ahmad, **Luqman Chuah Abdullah**, Raja Nor Izawati Raja Othman, Noor Aisyah Ahmad Syah, Shafreeza Sobri, Noor Azilah Mohd Kasim (2018).

Low cost and room temperature methane detection using multi walled-carbon nanotubes functionalized with octadecanol. *ZULFAQAR International Journal of Defence Science, Engineering & Technology*.1(2) 65-75 (My Jurnal-cited Publication).

Year 2017

116. Bee Lin Chua, Zunoliza Abdullah, Kar Yong Pin, **Luqman Chuah Abdullah**, Thomas Shean Yaw Choong, Umi Kalsom Yusof (2017). Isolation, structure elucidation, identification and quantitative analysis of 1'-acetoxychavicol (ACA) from the roots of *chlorophytum borivilianum* (safed musli). *Journal of Engineering Science and Technology*, 12(1), 198-213. (SCOPUS Cited Publication)
117. Suganti Ramarad, Chantara T. Ratnam, Mohammad Khalid, **Abdullah Luqman Chuah**, Svenja Hanson (2017). Improved crystallinity and dynamic mechanical properties of reclaimed waste tire rubber/EVA blends under the influence of electron beam irradiation. *Radiation Physics and Chemistry*, 130, 362-370. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.315).
118. Shu Hui Gan, Thing Chai Tham, Mei Xiang Ng, Lee Suan Chua, Ramlan Aziz, Mohamed Redza Baba, **Luqman Chuah Abdullah**, Sze Pheng Ong and Chung Lim Law (2018). Study on retention of metabolites composition in misai kucing (*Orthosiphon stamineus*) by heat pump assisted solar drying. *J Food Process Preserv.* 41, (6), e13262. doi: 10.1111/jfpp.13262. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0791).
119. Rafeah Wahi, **Luqman Chuah Abdullah**, Mohsen Nourouzi Mobarekeh, Zainab Ngaini, Thomas Choong Shean Yaw (2017). Utilization of esterified sago bark fibre waste for removal of oil from palm oil mill effluent. *Journal of Environmental Chemical Engineering*, 5, 170–177. (SCOPUS Cited Publication).
120. Intidhar Jabir Idan, Siti Nurul Ain Binti Md. Jamil, **Luqman Chuah Abdullah** and Thomas Shean Yaw Choong (2017). Removal of Reactive anionic dyes from binary solutions by adsorption onto quaternized kenaf core fiber. *International Journal of Chemical Engineering*, Volume 2017 (2017), Article ID 9792657. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.877).
121. Mohammad Reza Ketabchi, Mohammad Khalid, Chantara Theyv Ratnam, Rashmi Walvekar & **Luqman Chuah Abdullah** (2017). Sonosynthesis of microcellulose from kenaf fiber: Optimization of process parameters. *Journal of Natural Fibers*. 14(3), 437-449. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.974).
122. Kamyar Shameri, Nurul Hidayah, Ezzat Chan Abdullah, **Luqman Chuah Abdullah** (2017). A facile and green synthetic approach toward fabrication starch stabilized magnetite nanoparticles. *Chinese Chemical Letters*, 28(7), 1590-1596. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.932).
123. Mhd Abd Cader Mhd Haniffa, Yern Chee Ching, Cheng Hock Chuahb, Kuan Yong Ching, Nik Nazri, **Luqman Chuah Abdullah**, Liou Nai-Shang (2017). Effect of TEMPO-oxidization and rapid cooling on thermo-structural properties of nanocelluloses. *Carbohydrate Polymers*. 173, 91–99. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 4.811).
124. Ahmad Syafiq Ahmad Hazmi, Nik Nurfatmah Pz Nik Pauzi, Zulina Abdul Maurad, **Luqman Chuah Abdullah**, Min Min Aung, Azizan Ahmad, Mek Zah Salleh, Rida Tajau, Mohd Hilmi Mahmood, Syahrina Elliyana Saniman (2017). Understanding intrinsic plasticizer in vegetable oil-based polyurethane elastomer as enhanced biomaterial. *Journal of Thermal Analysis and Calorimetry*. 130(2), 919-933. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.953).

125. Mostafa Y., Mohammad Khalid, Faizah M.D., Mohammad Reza K., Hajalilou Abdullah, **Luqman Chuah A.** (2017). Physico-mechanical properties of poly(lactic acid) biocomposites reinforced with cow dung. *Materials Research Express*, 4 (2), paper no: 025302. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.068).
126. Sariah Saalah, **Luqman Chuah Abdullah**, Min Min Aung, Mek Zah Salleh, Dayang Radiah Awang Biak, Mahiran Basri, Emiliana Rose Jusoh and Suhaini Mamat (2017). Physicochemical properties of jatropha oil-based polyol produced by a two-step method. *Molecules*, 22(4), 551. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.098).
127. T. M. S. Udenni Gunathilake, Yern Chee Ching, Kuan Yong Ching, Cheng Hock Chuah, **Luqman Chuah Abdullah** (2017). Biomedical and microbiological applications of bio-based porous materials: A review. *Polymers*, 9, 160. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.364).
128. M. Z. Norshafini, C. T. Ratnam, **A. Luqman Chuah**, and S. Mohammad Khalid (2017). Improving compatibility of recycled nitrile rubber (rNBR) and ethylene vinyl acetate (EVA) blends by electron beam irradiation. *Polymer Research Journal*. 10(3), 109-117. (Cited in Chemical Abstracts, Elsevier, Genamics, EBSCO, and ProQuest).
129. Nurul Hidayah Abdullah, Kamyar Shameli, Mohammad Etesami, Ezzat Chan Abdullah, **Luqman Chuah Abdullah** (2017). Facile and green preparation of magnetite/zeolite nanocomposites for energy application in a single-step procedure. *Journal of Alloys and Compounds*. 719, 218-226 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.133).
130. Thing Chai Tham, Mei Xiang Ng, Shu Hui Gan, Lee Suan Chua, Ramlan Aziz, **Luqman Chuah Abdullah**, Ching Lik Hii, Sze Pheng Ong, Nyuk Ling Chin & Chung Lim Law (2017). Effect of ambient conditions on drying of herbs in solar greenhouse dryer with integrated heat pump. *Drying Technology*. 35(14), 1721–1732. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.976).
131. Shu Hui Gan, Lee Suan Chua, Ramlan Aziz, Mohamed Redza Baba, **Luqman Chuah Abdullah**, Sze Pheng Ong and Chung Lim Law (2017). Drying characteristics of *Orthosiphon stamineus* Benth by solar assisted heat pump drying. *Drying Technology*. 35(14), 1755–1764. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.976).
132. Emiliana Rose Jusoh, **Luqman Chuah Abdullah**, Min Min Aung, Mek Zah Salleh, Mahiran Basri, Sariah Saalah, Suhaini Mamat and Ching Yern Chee (2017). Physico-chemical characterisation of epoxy acrylate resin from jatropha seed oil. *Pigment & Resin Technology*. 46(6), 485-495. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.486).
133. Ferial Ghaemi, **Luqman Chuah Abdullah**, Nik Mohd Afizan Nik Abd. Rahman, Syed Umar Faruq Syed Najmuddin, Mahnaz M. Abdi, Hidayah Ariffin (2017). Synthesis and comparative study of thermal, electrochemical, and cytotoxicity properties of graphene flake and sheet. *Research on Chemical Intermediates*. 43(8), 4981–4991. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.674).
134. Nur Amirah Mohd Zahri, Siti Nurul Ain Md Jamil, **Luqman Chuah Abdullah**, Sim Jia Huey, Thomas Choong Shean Yaw, Mohsen Nourouzi Mobarekeh, Nur Salimah Mohd Rapeia (2017). Equilibrium and kinetic behavior on cadmium and lead removal by using synthetic polymer. *Journal of Water Process Engineering*. 17, 277–289. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.173).
135. N.M.L. Hanira, C.M. Hasfalina, M. Rashid, **C.A. Luqman**, A.M. Abdullah (2017). Effect of dilution and operating parameters on ammonia removal from scheduled waste landfill leachate in a lab-scale ammonia stripping reactor. *IOP Conf. Series: Materials*

Science and Engineering 206 (2017) 012076 doi:10.1088/1757-899X/206/1/012076. (SCOPUS Cited Publication).

136. N.M.L. Hanira, C.M. Hasfalina, M. Rashid, **C.A. Luqman**, A.M. Abdullah (2017). Pre-treatment of ammonia-nitrogen (NH₃ –N) removal from scheduled waste leachate by air stripping. *Desalination and Water Treatment*. 68, 330–337. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.631).
137. Rafidah, D., Ainun, Z. M. A., Hazwani, H. A., Rushdan, I., **Luqman, C. A.**, Sharmiza, A., Paridah, M. T. and Jalaluddin, H. Characterization of pulp and paper manufactured from oil palm empty fruit bunches and kenaf fibers. *Pertanika-JTAS*, 40 (3), 449-458. (SCOPUS Cited Publication).
138. Saba Rashidi, Rashmi W., **Luqman Chuah Abdullah**, Khalid M., Fakhru'l-Razi A. (2017). Thermal stability and conductivity of carbon nanotube nanofluid using xanthan gum as surfactant. *Sains Malaysiana*, 46(7), 1017–1024 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.470).
139. Nurul Akmil Mustafa, Qumrul Ahsan, Mohd Asyadi Azam, **Luqman Chuah Abdullah** (2017). Dodecylbenzene sulfonic acid concentration effect on electrical and thermal properties of polyaniline. *Malaysian Journal of Analytical Sciences*, 21 (4), 950-957. (SCOPUS Cited Publication).
140. Nurjahirah Janudin, **L.C. Abdullah**, Norli Abdullah, Faizah M. Yasin, Norshafiqah Mohamad Saidi and Noor Azilah Mohd Kasim (2017). Comparison and characterization of acid functionalization of multi walled carbon nanotubes using various methods. *Solid State Phenomena*. 264, 83-86 (SCOPUS Cited Publication).
141. SaifulAzry, S. O. A., **Chuah, T. G.**, Paridah M. T., Aung, M. M. and Edi S. Z. (2017). Effects of polymorph transformation via mercerisation on microcrystalline cellulose fibres and isolation of nanocrystalline cellulose fibres. *Pertanika J. Sci. & Technol.* 25 (4), 1275 - 1290. (SCOPUS Cited Publication).
142. Intidhar Jabir Idan, **Luqman Chuah Abdullah**, Siti Nurul Ain Binti Md. Jamil, Maytham Kadhim Obaid, Thomas Shean Yaw Choong (2017). Fixed-bed system for adsorption of anionic acid dyes from binary solution onto quaternized kenaf core fiber. *BioResources*. 12 (4), 8870-8885. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.321).
143. Maytham Kadhim Obaid, **Luqman Chuah Abdullah**, Dalia Sadiq Mahdi, Intidhar Jabir Idan, Siti Nurul Ain Binti Md. Jamil (2017). Batch adsorption study for removal acid red 114 dye from aqueous solution by using kenaf. *International Journal of Engineering Research and Reviews*. 5(1), 38-49. (Non-cited Publication).
144. Maytham Kadhim Obaid, **Luqman Chuah Abdullah**, Dalia Sadiq Mahdi, Intidhar Jabir Idan, Siti Nurul Ain Binti Md. Jamil (2017). Fixed bed adsorption study for removing of reactive orange 16 and acid red 114 dyes from aqueous solution using Kenaf. *International Journal of Research in Advanced Engineering and Technology*. 3(1), 32-40. (Non-cited Publication).
145. Maytham Kadhim Obaid, **Luqman Chuah Abdullah**, Dalia Sadiq Mahdi, Intidhar Jabir Idan, Siti Nurul Ain Binti Md. Jamil (2017). Adsorption of anionic dye using cationic surfactant-modified kenaf core fibers. *Open Access Library Journal*, 4, e3747. (Non-cited Publication).
146. J. W. Lim, K. F. Lee, Thomas S.Y. Chong, **L. C. Abdullah**, M. A. Razak, C. Tezara (2017). Phosphorus removal by electric arc furnace steel slag adsorption. *IOP Conf. Ser.: Mater. Sci. Eng.* 257 012063. (SCOPUS Cited Publication)

147. Ferial Ghaemi, **Luqman Chuah Abdullah**, Paridah Md Tahir (2017). Natural and synthetic nanomaterials: Comparative study on their mechanical and thermal properties as nanofiller in polymer composite. *J. Phys.: Conf. Ser.* 914, 012014. (SCOPUS Cited Publication).
148. Siti Zalina Yaacob, Norhafizah Abdullah, **Luqman Chuah Abdullah** (2017). Potential of trichoderma harzianum as cellulose biodegrader in biocomposting of paddy straw. *Journal of Advanced Research in Materials Science*, 39(1), 8-13. (Google Scholar, My Jurnul Cited Publication).
149. Ferial Ghaemi, Paridah Md Tahir, **Luqman Chuah Abdullah**, and Haniyeh Kargarzadeh (2017). Comparative study of cellulose nanofiber and carbon nanofiber effects as reinforcement fillers on mechanical properties of polypropylene composites. *AIP Conference Proceedings*, 1901, 020019. (SCOPUS Cited Publication).

Year 2016

150. C. K. Chai, C.T. Ratnam, **L.C. Abdullah**, H.M. Yusoff (2016). Tensile properties and thermal stability of Gamma irradiated epoxidized natural rubber latex with the presence of sensitizer. *Journal of Polymer Materials*. 33(1), 223-232. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.377).
151. Reza Zolfaghari, Ahmadun Fakhru'l-Razi, **Luqman C. Abdullah**, Said S.E.H. Elnashaie, Alireza Pendashteh (2016). Demulsification techniques of water-in-oil and oil-in-water emulsions in petroleum industry. *Separation and Purification Technology*, 170, 377–407. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.299).
152. Ferial Ghaemi, **Luqman Chuah Abdullah**, Paridah Md Tahir (2016). Co re/shell structure of Ni/NiO encapsulated in carbon nanosphere coated with few- and multi-layered graphene: Synthesis, mechanism and application. *Polymers*. 8(11), 381. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.944).
153. Ferial Ghaemi, **Luqman Chuah Abdullah**, Paridah Md Tahir and Robiah Yunus (2016). Synthesis of different layers of graphene on stainless steel using the CVD method. *Nanoscale Research Letters*, 11, 506. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.584).
154. Rabiatuladawiyah Danial, **Chuah Teong Guan**, Mohsen Nourouzi Mobarekeh, Shafreeza Sobri, Yvonne Koh Wei Ling (2016). Magnetic field enhanced electrocoagulation using iron electrode in removing glyphosate from aqueous solution. *Malaysian Journal of Chemistry*, 18(1), 38–49.
155. Mhd Abd Cader Mhd Haniffa, Yern Chee Ching, **Luqman Chuah Abdullah**, Sin Chew Poh and Cheng Hock Chuah (2016). Review of bionanocomposite coating films and their applications. *Polymers*. 8(7), 246. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.944).
156. Ayu Haslija Bt Abu Bakar, Yin Shin Koay, **Luqman Chuah Abdullah**, Thomas S. Y. Choong, Ma'an Alkhatib, Mohsen Nourouzi Mobarekeh, Nur Amirah Mohd Zahri and Yern Chee Ching (2016). Removal of fluoride using quaternized palm kernel shell as adsorbents: Equilibrium isotherms and kinetics studies. *BioResources*, 11(2), 4485-4511. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.334).
157. Maytham Kadhim Obaid, **Luqman Chuah Abdullah**, and Intidhar Jabir Idan (2016). Removal reactive orange16 dye from aqueous solution by using Modified kenaf core fiber. *Journal of Chemistry*. Volume 2016, Article ID 4262578, 7 pages. doi.org/10.1155/2016/4262578. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.726).

159. Mohd Azrie Awang, Ramlan Aziz, Mohammad Roji Sarmidi, **Luqman Chuah Abdullah**, Pin Kar Yong and Nur Fashya Musa (2016). Comparison of different solvents on the extraction of *Melastoma malabathricum* leaves using Soxhlet extraction method. *Der Pharmacia Lettre*, 8 (17):153-157. (SCOPUS Cited Publication).
160. Mohd Azwan Ahmad, Abdul Wahab Mohammad, Thomas Choong Shean Yaw, **Luqman Chuah Abdullah** (2016). Effects of organo-floc as natural coagulant on post treatment of ultrafiltration membrane. *Pollution Research*. 35 (2), 233-239. (SCOPUS Cited Publication)
161. S. W. Tam, W. Rashmi, S. Rashidi, **L. C. Abdullah**, M. Khalid (2016). Stability and characterization of CNT nanofluids using polyvinyl alcohol dispersant. *Journal of Engineering Science and Technology EURECA 2015 Special Issue February, 2016*, 1 – 15. (SCOPUS Cited Publication)
162. Soraya Hosseini, Suraya Abdul Rashid, Ali Abbasi, Farahnaz Eghbali Babadi, **Luqman Chuah Abdullah**, Thomas S.Y. Choong (2016). Effect of catalyst and substrate on growth characteristics of carbon nanofiber onto honeycomb monolith. *Journal of the Taiwan Institute of Chemical Engineers*, 59, 440–449. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.848).
163. Chantara Theyy Ratnam, Suganti Ramarad, Mohd Khalid Siddiqui, Anis Sakinah Zainal Abidin and **Luqman TG Chuah** (2016). Irradiation cross-linking of ethylene vinyl acetate/waste tire dust: Effect of multifunctional acrylates. *Journal of Thermoplastic Composite Materials* 29(4) 464–478. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.922).
164. Kar Yin Goh, Yern Chee Ching, Cheng Hock Chuah, **Luqman Chuah Abdullah**, Nai-Shang Liou (2016). Individualization of microfibrillated celluloses from oil palm empty fruit bunch: Comparative studies between acid hydrolysis and ammonium persulfate oxidation. *Cellulose*, 23, 379–390. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.195).
165. Yern Chee Ching, Md. Ershad Ali, **Luqman Chuah Abdullah**, Kai Wen Choo, Yong Ching Kuan, Sabariah Julai Julaihi, Cheng Hock Chuah, Nai-Shang Liou (2016). Rheological properties of cellulose nanocrystal-embedded polymer composites: A review. *Cellulose*, 23 (2), 1011–1030. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.195).

Year 2015

166. Yeoh Beng Hoong, Antonio Pizzi, **Luqman Abd. Chuah**, Jalaluddin Harun (2015). Phenol–urea–formaldehyde resin co-polymer synthesis and its influence on *Elaeis palm* trunk plywood mechanical performance evaluated by ¹³C NMR and MALDI-TOF mass spectrometry. *International Journal of Adhesion & Adhesives* 63, 117–123. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.773).
167. Nur Amirah Mohd Zahri, Siti Nurul Ain Md Jamil, **Luqman Chuah Abdullah**, Thomas Choong Shean Yaw, Mohsen Nourouzi Mobarekeh, Sim Jia Huey and Nur Salimah Mohd Rapeia (2015). Improved method for preparation of amidoxime modified poly (acrylonitrile-co-acrylic acid): Characterizations and adsorption case study. *Polymers*, 7, 1205-1220. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.681).
168. Suganti Ramarad, Chantara Theyy Ratnam, M. Khalid, **A. Luqman Chuah** (2016). Improving the properties of reclaimed waste tire rubber by blending with poly (ethylene-co-vinyl acetate) and electron beam irradiation. *Journal of Applied Polymer Science*. 132(11), 41649 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.640).

169. Boon Khoon Tan, Yern Chee Ching, Sin Chew Poh, **Luqman Chuah Abdullah** and Seng Neon Gan (2015). A review of natural fiber reinforced poly(vinyl alcohol) based composites: Application and opportunity. *Polymers*, 7, 2205–2222. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.681).
170. Min Min Aung, Zahira Yaakob, **Luqman Chuah Abdullah**, Marwah Rayungb, Wong Jia Li (2015). A comparative study of acrylate oligomer on jatropha and palm oil-based UV-curable surface coating. *Industrial Crops and Products*. 77, 1047–1052. (ISI/SCOPUS Cited Publication, **Journal Impact Factor**, 2.468).
171. S. Ramarad, M. Khalid, C.T. Ratnam, **A. Luqman Chuah** (2015). Waste tire rubber in polymer blends: A review on the evolution, properties and future. *Progress in Material Science*, 72, 100–140. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 25.870).
172. Rabiatuladawiyah Danial, **Luqman Chuah Abdullaha**, Mohsen Nourouzi Mobarekeh, Shafreeza Sobria, Nordayana Mohd Adnan (2015). A comparison between aluminium and iron electrodes in electrocoagulation process for glyphosate removal. *Jurnal Teknologi*. 77(32), 21–26. (Scopus Cited Publication).
173. Mohd Farhan Abdul Razak, Pin Kar Yong, Zamree Md Shah, **Luqman Chuah Abdullah** and Nazirah Mahmud (2015). Optimization of solid liquid extraction of *Ourthosiphon stamineus* leaves using response surface methodology technique. *Pertanika J. Trop. Agric. Sci.*, 8 (2): 259 - 270 (SCOPUS Cited Publication).
174. S. R. M. Yusof, N. A. M. Zahri, Y. S. Koay, M. N. Mobarekeh, **L. A. Chuah**, T. S. Y. Choong (2015). Removal of fluoride using modified kenaf as adsorbent. *Journal of Engineering Science and Technology*, Special Issue, 11 – 22. (SCOPUS Cited Publication).
175. Yi Peng Teoh, Moonis Ali Khan, Thomas S.Y. Choong, **Luqman Chuah Abdullah** and Soraya Hosseini (2015). Comparative removal of phenols and its chlorinated derivatives by carbon-coated monolith: Equilibrium, kinetics and regeneration studies. *Desalination and Water Treatment*. 54, 393–404. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.987).
176. Sariah Saalah, **Luqman Chuah Abdullah**, Min Min Aung, Mek Zah Salleh, Dayang Radiah Awang Biak, Mahiran Basri, Emiliana Rose Jusoh (2015). Waterborne polyurethane dispersions synthesized from jatropha oil. *Industrial Crops and Products*. 64, 194–200 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.208).
177. Nur Fatimah Abu Bakar, Ching Yern Chee, **Luqman Chuah Abdullah**, Chantara Theyy Ratnam and Nor Azowa Ibrahim (2015). Thermal and dynamic mechanical properties of grafted kenaf filled poly(vinyl chloride)/ethylene vinyl acetate composites, *Materials and Design*, 65, 204–211. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.219).
178. Bee Lin Chua, Zunoliza Abdullah, Kar Yong Pin, **Luqman Chuah Abdullah**, Thomas Shean Yaw Choong and Umi Kalsom Yusof. (2015). Isolation, structure elucidation, identification and quantitative analysis of di(2-ethylhexyl) phthalate (DEHP) from the roots of chlorophytum borivilianum (safed musli). *Research Journal of Pharmaceutical, Biological and Chemical Sciences*. 6(5), 1090-1095. (SCOPUS Cited Publication).
179. W.Z. Go, P.S. H'ng, M. Y. Wong, G. H. Tan, **A. Luqman Chuah**, U. Salmiah, R. Toczyłowska-Mamiń, O. Soni, W.Z. Wong, K.L. Chin and E. W. Chai (2015). Occurrence and characterization of mycoflora in soil of different health conditions associated with white root rot disease in malaysia rubber plantation. *J. Rubber Res.*, 18(3), 159-170. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.225).

180. Soraya Hosseini, Iman Bayesti, Ehsan Marahel, Farahnaz Eghbali Babadi, **Luqman Chuah Abdullah**, Thomas S.Y. Choong (2015). Adsorption of carbon dioxide using activated carbon impregnated with Cu promoted by zinc. *Journal of the Taiwan Institute of Chemical Engineers*, 52, 109–117. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.000).
181. Soraya Hosseini, Ehsan Marahel, Iman Bayesti, Ali Abbasi, **L. Chuah Abdullah**, Thomas S.Y. Choong (2015). CO₂ adsorption on modified carbon coated monolith: Effect of surface modification by using alkaline solutions. *Applied Surface Science*, 324, 569–575. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.000).
182. S. Hosseini, T. S. Y. Choong, **L. C. Abdullah**, C. L. Beh (2015). Removal of iodide ions from aqueous solution by electric arc furnace slag. *Journal of Engineering Science and Technology*, Special Issue, 73 – 81. (SCOPUS Cited Publication).
183. Mohamad Rasool Malekbala, Moonis Ali Khan, Soraya Hosseini, **Luqman Chuah Abdullah**, Thomas S.Y. Choong (2015). Adsorption/desorption of cationic dye on surfactant modified mesoporous carbon coated monolith: Equilibrium, kinetic and thermodynamic studies. *Journal of Industrial and Engineering Chemistry* 21, 369–377 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.145).
184. Arifin, H., Choong, T.S.Y., Rong, C.K., Ahmadun, F.A.-R., **Abdullah, L.C.** (2015). Forward osmosis: Temperature effects by using POME as feed solution. *ASEAN Journal of Chemical Engineering*. 15(1), 31-40. (ISI/SCOPUS Cited Publication).
185. N.S.M., Rapeia, Siti N.A.M Jamil, **Luqman C.**, Abdullah, Mohsen N. Mobarekeh, Thomas C. S. Yaw, Sim J. Huey, and Nur A.M. Zahri (2015). Preparation and characterization of hydrazinmodified poly(acrylonitrile-co-acrylic acid). *Journal of Engineering Science and Technology*, Special Issue, 61 – 70 (Scopus Cited Publication).
186. Mohd Azwan Ahmad, **Luqman Chuah Abdullah**, Thomas Choong Shean Yaw and Abdul Wahab Mohammad (2015). Overview on application of response surface methodology (RSM) in treatment of palm oil mill effluent (POME). *Journal of Environmental Science and Engineering B*, 4,111-118. (Scopus Cited Publication).
187. Z. Zawani, **Luqman Chuah Abdullah**, Khalina Abdan (2015). Characterization of kenaf fibre-retting wastewater. *International Journal of Science and Research*, 4 (6), 314-317. (Non-Cited Publication).
188. Husna Ahmad Tajuddin, **Luqman Chuah Abdullah**, Thomas S.Y. Choong (2015). Microbial community analysis in anaerobic palm oil mill effluent (POME) wastewater by denaturing gradient gel electrophoresis (DGGE). *International Journal of Research in Engineering and Technology*, 4(8), 1-9. (Non-Cited Publication).

Year 2014

189. Yin Shin Koay, Intan Salwani Ahamad, M. Mohsen Nourouzi, **Luqman Chuah Abdullah** and Thomas Shean Yaw Choong (2014). Development of novel low-cost quaternized adsorbent from palm oil agriculture waste for reactive dye removal. *BioResources*, 9(1), 66-85. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.549).
190. Chiou Moi Yeoh, Eng Tong Phuah, Teck Kim Tang, Wai Lin Siew, **Chuah Abdullah Luqman** and Thomas S.Y. Choong (2014). Molecular distillation and characterization of diacylglycerol-enriched palm olein. *European Journal of Lipid Science and Technology*, 116, 1654–1663. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.226).
191. Nur Fatimah Abu Bakar, Ching Yern Chee, **Luqman Chuah Abdullah**, Chantara Thevy Ratnam, Nor Azowa Ibrahim (2014). Effect of methyl methacrylate grafted kenaf

- on mechanical properties of polyvinyl chloride/ethylene vinyl acetate composites. *Composites Part A: Applied Science and Manufacturing*, 63, 45-50. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.012)
192. M. M. Nourouzi, S. Keshani, and **L. Chuah Abdullah** (2014). Neural network application in fixed bed column adsorption. *International Journal of Innovation, Management and Technology*, 5(2), 130-133. (Scopus and ISI Cited Publication).
 193. Sara, Y. Y., Amneera, W.A., **Chuah, T.G.**, Rashid, M. And Zakarya, I.A. (2014). Source apportionment of atmospheric aerosols in Kuala Lumpur Malaysia. *Advances in Environmental Biology*, 8 (15), 265-270. (Scopus and ISI/SCOPUS Cited Publication).
 194. Nor Fariza, **Luqman Chuah A**, Pin KY, Dayang Radiah AB, Umi Kalsom Yand Adawiah I (2014). Optimization of extraction of phaleria macrocarpa leaves. *Med Aromat Plants* 3, 149. (Chemical Abstracts Service (CAS) Cited Publication)
 195. Solomon O. Giwa, **Luqman A. Chuah** and Nor M. Adam (2014). Fuel properties and rheological behavior of biodiesel from egusi (*Colocynthis citrullus L.*) seed kernel oil. *Fuel Processing Technology*, 122, 42-48. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.816).
 196. Min Min Aung, Zahira Yaakob, Siti Kamarudin, **Luqman Chuah Abdullah** (2014). Synthesis and characterization of *Jatropha* (*Jatropha curcas L.*) oil-based polyurethane wood adhesive. *Industrial Crops and Products*. 60, 177–185. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.468).
 197. Y. S. Koay, I.S. Ahmad, M. Mohsen Nourouzi and **T.G. Chuah** (2014). Ion-exchange adsorption of reactive dye solution onto quaternized palm kernel shell. *Journal of Applied Sciences*. 14(12), 1314-1318. (Scopus and ISI/SCOPUS Cited Publication).
 198. Mohd Azrie, **A. Luqman Chuah**, K. Y. Pin and H. P. Tan (2014). Effect of solvents on the extraction of Kacip Fatimah (*Labisia pumila*) leaves. *Journal of Chemical and Pharmaceutical Research*, 6(9):172-176. (Scopus and ISI/SCOPUS Cited Publication).
 199. Mohammed Yusuf, **Luqman Chuah**, Moonis Ali Khan, Soraya Hosseini, Thomas S.Y. Choong (2014). Adsorption of nickel on electric arc furnace slag: batch and column studies. *Separation Science and Technology*, 49(3), 388–397. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.164).
 200. Rafeah Wahi, **Luqman Chuah Abdullah**, Thomas Choong Shean Yew, Zainah Ngaini, Mohsen Nourouzi Mobarekeh. (2014). Esterification of sago bark as an adsorbent for removal of emulsified oil. *J. Environmental Chemical Engineering*. 2, 324–331. (Scopus and ISI/SCOPUS Cited Publication).
 201. Fatemeh Mirjalili, **Luqman Chuah Abdullah**, Esmail Salahi (2014). Mechanical and morphological properties of polypropylene/ nano α - Al_2O_3 composites. *Scientific World Journal*. Volume 2014, Article ID 718765. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.730).
 202. C.K. How, Moonis Ali Khan, Soraya Hosseini, **T.G. Chuah**, Thomas S.Y. Choong (2014). Fabrication of mesoporous carbons coated monolith via evaporative induced self-assembly approach: Effect of solvent and acid concentration on pore architecture. *Journal of Industrial and Engineering Chemistry*, 20 (6), 4286–4292 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.063).
 203. Majid Dehghan Nayeri, Paridah Md Tahir, Mohammad Jawaid, Jalaluddin Harun, **Luqman Chuah Abdullah**, Edi Suhaimi Bakar, Samaneh Keshani, and Farideh Namvar (2014). Effect of resin content and pressure on the performance properties of rubberwood-kenaf composite board panel. *Fibers and Polymers*, 15(6), 1263-1269. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.912).

204. Thing Chai Tham, Ching Lik Hii, Sze Pheng Ong, Nyuk Ling Chin, **Luqman Chuah Abdullah**, Chung Lim Law (2014). Technical review on crumb rubber drying process and the potential of advanced drying technique. *Agriculture and Agricultural Science Procedia* 2, 26 – 32. (ISI/SCOPUS Cited Publication).
205. Maryam Jokar, Russly Abdul Rahman, **Luqman Chuah Abdullah** (2014). Physical and antimicrobial characterization of self-assembled silver nanoparticle/chitosan onto low density polyethylene film as active packaging polymer. *Journal of Nano Research* 27, 53-64 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.341).
206. Nayeri, M. D., Tahir, P. M., Jawaid, M., Ashaari, Z., **Abdullah, L. C.**, Bakar, E. S., and Namvar, F. (2014). Medium density fibreboard made from kenaf (*Hibiscus cannabinus* L.) stem: Effect of thermo-mechanical refining and resin content. *BioResources*, 9(2), 2372-2381. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.328).
207. Nayeri, M. D., Tahir, P. M., Taghiyari, H. R., Alias, A. H., Karimi, A., **Abdullah, L. C.**, Bakar, E. S., and Namvar, F. (2014). Medium-density fiberboard made from kenaf bast and core: Effects of refining pressure and time on specific gas permeability. *BioResources*, 9(4), 7198-7208. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.328).
208. Nima Zohdi, Fariba Mahdavi, **Luqman Chuah Abdullah** and Thomas SY Choong (2014). Removal of boron from aqueous solution using magnetic carbon nanotube improved with tartaric acid. *Journal of Environmental Health Science and Engineering*, 12, 3. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.23).
209. Cheah Poh Meng, Ahmad Husni Mohd Hanif, Samsuri Abd Wahid, **Luqman Chuah Abdullah** (2014). Short-term field decomposition and physico-chemical transformation of jatropha pod biochar in acidic mineral soil. *Open Journal of Soil Science*, 4, 226-234.
210. M. M. Bello, M. M. Nourouzi, **L. C. Abdullah** (2014). Tertiary Treatment of Biologically treated POME in fixed-bed: Color and COD removal. *Advances in Environmental Biology*, 8(3), 565-571 (Scopus and ISI/SCOPUS Cited Publication).
211. Muhamad Roddy Ramli, Siew Wai Lin, **Luqman Chuah Abdullah** and Thomas Choong Shean Yaw (2014). Fractionation of Palm Kernel Oil by Short Path Distillation. *Journal of Food Science and Engineering*, 4 (2), 82-95. (CAS, EBSCO etc. Cited Publication).

Year 2013

212. Chee Keong Chai, ChantaraThevy Ratnam, **Luqman Chuah Abdullah**, Mohamed Syafiq Shaik Mohamed Amin, Wan Manshol Wan Zin (2013). Effect of gamma radiation on the tensile properties of epoxidized natural rubber latex. *International Journal of Institute of Material Malaysia*, 1, 17-25. (Non-Cited Publication).
213. Cheah, P.M., Husni, M.H.A., Samsuri, A.W., **Luqman Chuah A.** (2013). Short-term field decomposition of pineapple stump biochar in tropical peat soil. *Malaysian Journal of Soil Science*, 17, 85-97. (SCOPUS Cited Publication).
214. Muhammad, Moonis Ali Khan, **T. G. Chuah** and Thomas S. Y. Choong (2013). β -carotene adsorption onto mesoporous carbon-coated monolith column: dynamic studies. *Chemical Engineering Communications*. 200 (10), 1322-1333 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.052).
215. Yeoh Beng Hoong, Yueh Feng Loh, **Luqman Abd. Chuah**, Idrus Juliwar, Antonio Pizzi, Md. Tahir Paridah, Harun Jalaluddin (2013). Development of a new method for pilot

scale production of high-grade oil palm plywood: Effect of resin content on the mechanical properties, bonding quality and formaldehyde emission of palm plywood. *Materials and Design*, 52, 828-834. (Scopus and ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.913).

216. Solomon O. Giwa, **Luqman A. Chuah** and Nor M. Adam (2013). Transesterification reaction optimization and evaluation of biodiesel produced from seed oil of *Colocynthis Citrullus L.* *Advance in Energy (AIE)*, 1 (1), 1-9. (Non-cited publication).
217. Mohammed Yusuf, Farahnaz EghbaliBabadei, Sepideh Keshan Balavandy, Bahador Dastorian Jamnani, Soraya Hosseini, Mohamad RasoolMalekbala, **Luqman Abdullah Chuah** (2013). Removal of Ni (II) from aqueous solution by an electric arc furnace slag using artificial neural network approach. *Advances in Environmental Biology*, 7(9), 2303-2310 (ISI/SCOPUS Cited Publication).
218. Mohammed Yusuf, **Luqman Chuah A.**, Mohammed M.A. and Shitu A. (2013) Investigations of Nickel (II) removal from Aqueous Effluents using electric arc furnace slag. *Research Journal of Chemical Sciences*, 3(12),29-37. (Chemical Abstracts Service (CAS) Cited Publication).
219. Emiliana R. Josuh, Ismail, M. Halim Shah Ismail, **Luqman C. Abdullah**, Yunus, R., and Wan Abdul Rahman, W. A. (2013). Effect of crude palm oil as plasticizer on the mechanical and morphology properties of low-density polyethylene blown film. *International Journal of Materials Engineering Innovation (IJMatEI)*, 4, (3/4), 302-313 (SCOPUS Cited Publication).
220. M.M. Bello, M.M Nourouzia, **L. Chuah Abdullah**, Thomas S.Y. Choong, Y.S. Koay, S. Keshanid (2013). POME is treated for removal of color from biologically treated POME in fixed bed column: Applying wavelet neural network (WNN). *Journal of Hazardous Materials*. 262, 106-113. (Scopus and ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.925).
221. Nurul Izzati Mohd Zawawi, Ainun Zuriyati Mohamed Asa'ari, **Luqman Chuah Abdullah**, Hazwani Husna Abdullah, Jalaluddin Harunand Mohammad Jawaid (2013). Water absorbency and mechanical properties of kenaf paper blended via a disintegration technique. *BioResources*. 8(4), 5570-5580. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.328).
222. Ahmad Syafiq Ahmad Hazmi, Min Min Aung, **Luqman Chuah Abdullah**, Mek Zah Salleh, Mohd Hilmi Mahmod (2013). Producing jatropha oil-based polyol via epoxidation and ring opening. *Industrial Crops and Products*, 50, 563-567. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.469).
223. Rafeah Wahi, **Luqman Chuah Abdullah**, Thomas Choong Shean Yew, Zainah Ngaini, Mohsen Nourouzi Mobarekeh. (2013). Oil removal from aqueous state by natural fibrous sorbent: An overview. *Separation and Purification Technology*, 113, 51-63. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.921).
224. Gregory F.L. Koay, **Teong-Guan Chuah**, Thomas S.Y. Choong (2013). Economic feasibility assessment of one and two stages dry fractionation of palm kernel oil. *Industrial Crops and Products*, 49, 437-444. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.469).
225. Hazwani Husna Abdullah, Ainun Zuriyati Mohamed Asa'ari, Nurul Izzati Mohd Zawawi, **Luqman Chuah Abdullah** and Sarani Zakaria (2013). Effects of physical treatments on the hydrophobicity of kenaf whole stem paper surface using stearic acid. *BioResources*, 8(3), 4088-4100. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.328).

226. Sim Hong Ng, Paridah Md. Tahir, Rosfarizan Mohamad, **Luqman C. Abdullah**, Adrian C.Y. Choo, and Yan Yee Liong (2013). Effect of pretreatment process on bioconversion of kenaf (*Hibiscus cannabinus* L.) Core to Glucose. *BioResources*, 8(2), 2010-2017 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.328).
227. Mohsen Nourozi Mobarekeh, **Chuah Teong Guan** and Thomas S. Y. Choong. (2013). Removal of glyphosate from water: Applying coupled sequencing batch reactor-adsorption method. *Caspian Journal of Applied Science Research*, 2(6), 33-42. (Scopus and ISI/SCOPUS Cited Publication).
228. Ching Yern Chee, Goh Kuan Yong, **Luqman Chuah Abdullah** and Kalyani Nadarajah (2013). Effect of nanosilica and titania on thermal stability of polypropylene/oil palm empty fruit fibre composite. *Journal of Biobased Materials and Bioenergy*, 7(1), 169-174 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.037).
229. Sara, Y.Y., Rashid, M., **Chuah, T.G.**, Suhaimi, M., Mohamed, N.N. (2013). Characteristics of airborne PM2.5 and PM2.5-10 in the urban environment of Kuala Lumpur. *Advanced Materials Research*. 620, 502-510. (SCOPUS Cited Publication).
230. Willie Cheah, Soraya Hosseini, Moonis Ali Khan, **T.G. Chuah**, Thomas S.Y. Choong (2013). Acid modified carbon coated monolith for methyl orange adsorption. *Chemical Engineering Journal*. 215–216, 747–754. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 5.310).
231. P.W. Tay, P.S. H'ng, K.L. Chin, L.J. Wong, **A.C. Luqman** (2013). Effects of steeping variables and substrate mesh size of the starch yield extracted from the oil palm trunk. *Industrial Crops and Products*, 44, 240– 245. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.469).
232. K.L. Chin, P.S. H'ng, W.Z. Go, W.Z. Wong, T.W. Lim, M. Maminski, M.T. Paridah, **A.C. Luqman** (2013). Optimization of torrefaction conditions for high energy density solid biofuel from oil palm biomass and fast-growing species available in Malaysia. *Industrial Crops and Products*, 49, 768– 774. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.469).
233. K. L. Chin, P. S. H'ng, E. W. Chai, B. T. Tey, M. J. Chin, M. T. Paridah, **A. C. Luqman**, M. Maminski (2013). Fuel characteristics of solid biofuel derived from oil palm biomass and fast-growing timber species in Malaysia. *BioEnergy Research*, 6(1), 75-82. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.309).
234. Samaneh Keshani, Wan Ramli Wan Daud, Meng Wai Woo, M.M. Nourouzi, Meor Zainal Meor Talib, A. **Luqman Chuah** and A.R. Russly (2013). Reducing the deposition of fat and protein covered particles with low energy surfaces. *Journal of Food Engineering*, 116(3), 737–748. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.414).
235. Nayeri, M. D., Md Tahir, P., Harun, J., **Abdullah, L. C.**, Bakar, E. S., Jawaid, M., and Namvar, F. (2013). Effects of temperature and time on the morphology, pH, and buffering capacity of bast and core kenaf fibres. *BioResources*, 8(2), 1801-1812. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.328).

Year 2012

236. Mohsen Nourouzi, **Teong Guan, Chuah**, Thomas Choong (2012). Application of ferric chloride for removal of Glyphosate: modeling of axial and radial flow impellers using artificial neural networks. *Journal of Environmental Engineering-ASCE*, 138(11), 1157-1164. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.312).
237. Ching Yern Chee, N.L., Song, **Luqman Chuah Abdullah**, Thomas S.Y. Choong, Azowa Ibrahim and T.R. Chantara (2012). Characterization of mechanical properties: low-

density polyethylene nanocomposite using nanoalumina particle as filler. *Journal of Nanomaterials*, vol. 2012, Article ID 215978, doi:10.1155/2012/215978 (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.376).

238. F. Mirjalili, **L. Chuah**, M. Khalid and M. Hasmaliza (2012). Effects of nano α -Al₂O₃ fillers and dispersant on thermal and dynamic mechanical properties of polypropylene/nano α -Al₂O₃ composite. *Journal of Thermoplastic Composite Materials*, 25(4),453-467 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.810).
239. J.L.S. Ngu, I. Noshida, M. Akmil, **A. Luqman Chuah** and R. Chantar Theyy (2012). Thermal properties of low-density polyethylene/alpha- alumina nanocomposites. *Journal of Thermoplastic Composite Materials*, 25(4),415-426 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.810).
240. M. A. Puteri Farah Wahida, **A. Luqman Chuah**, K. Y. Pin, C. L. Law, T.S.Y. Choong (2012). Vacuum drying characteristics for *Piper betle* L. leaves. *Journal of Applied Sciences*, 12(11),1203-1206 (Scopus and ISI Thomson Routhier Publication).
241. Nor Fariza, J. Fadzureena, K. Y. Pin, A. Zunoliza, **A. Luqman Chuah**, I. Adawiah (2012). Anti-inflammatory activity of the major compound from methanol extract of *Phaleria macrocarpa* leaves. *Journal of Applied Sciences*, 12(11), 1195-1198 (Scopus and ISI Thomson Routhier Publication).
242. Mohd Farhan B. Abdul Razak, Pin Kar Yong, Zamree Md. Shah, **Luqman Chuah Abdullah**, Soh Sin Yee and Thomas Choong Shean Yaw (2012). The effects of varying solvent polarity on extraction yield of *Orthosiphon stamineus* leaves. *Journal of Applied Sciences*, 1207-1210 (Scopus and ISI Thomson Routhier Publication).
243. Mohd Farhan A.R., Abdul Razak S., Pin K.Y., **Luqman Chuah A.** (2012). Antioxidant activity and phenolic content of different parts of *Orthosiphon stamineus* grown under different light intensity. *Journal of Tropical Forest Science*,24(2),173–177 (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.467).
244. C.L. Beh, **T.G. Chuah**, M. N. Nourouzi, Thomas S.Y. Choong (2012). Removal of heavy metals from steel making waste water by using electric arc furnace slag. *E-Journal of Chemistry*,9 (4), 2557-2564. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.516).
245. Nourouzi, M.M., **Chuah, T.G.** and Choong, S.Y.T. (2012). Modeling biodegradation and kinetics of glyphosate by artificial neural network. *Journal of Environmental Science and Health, Part B: Pesticides, Food Contaminants, and Agricultural Wastes*, 47(5), 455-465 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.886).
246. Gregory F.L. Koay, **Teong-Guan Chuah**, Sumaiya Zainal-Abidin, Salmiah Ahmad and Thomas S.Y. Choong (2012). Effects of temperature and solvent concentration on solvent crystallization of palm based dihydroxystearic acid with isopropyl alcohol. *Particuology*, 10(1), 127-131. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.423).
247. Emiliana R. Jusoh, Ismail, M. Halim Shah Ismail, **Luqman C. Abdullah**, Yunus, R., and Wan Abdul Rahman, W. A. (2012). Crude palm oil as a bioadditive in polypropylene blown film. *BioResources*, 7(1), 859-867. 131 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.328).
248. Tee, L. H., **Luqman Chuah A.**, Pin, K. Y., Abdull Rashih, A., Yusof, Y. A.(2012). Optimization of spray drying process parameters of *Piper betle* L. (Sirih) leaves extract coated with maltodextrin. *Journal of Chemical and Pharmaceutical Research*, 4(3),1833-1841. (SCOPUS Cited Publication).

249. Muhammad, Moonis Ali Khan, Thomas S.Y. Choong, **T.G. Chuah**, Robiah Yunus, Y.H. Taufiq Yap (2012). Kinetics Studies of the Adsorption of β -carotene from MCCM: Effect of Concentration and Temperature. *Asian Journal of Chemistry*, 24 (7), 3155 - 3161. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.266).
250. Maryam Jokar, Russly Abdul Rahman, Nor Azowa Ibrahim, **Luqman Chuah Abdullah**, Tan Chin Ping (2012). Melt production and antimicrobial efficiency of low-density polyethylene (LDPE)-silver nanocomposite film. *Food and Bioprocess Technology*, 5(2), 719–728. (ISI/SCOPUS Cited Publication, Journal Impact Factor 3.703).
251. Wan Ramli Wan Daud, Samaneh Keshani, Meng Wai Woo, Meor Zainal Meor Talib, **Luqman Chuah Abdullah**, Russly Abdul Rahman (2012). Artificial neural network modeling of the deposition rate of lactose powder in spray dryers. *Drying Technology*, 30, 386–397. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.084).
252. Mahnaz M. Abdi, H.N.M. Ekramul Mahmud, **Luqman Chuah Abdullah**, Anuar Kassim, Mohamad Zaki Ab. Rahman, Josephine Liew Ying Chyi (2012). Optical band gap and conductivity measurement of PPy-Chi thin films. *Chinese Journal of Polymer Science*, 30(1), 93-100. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.919).
253. Beh C.L., **Chuah T.G.**, Nourouzi Mohsen and Choong Thomas S.Y. (2012). Fixed bed column studies for the removal of manganese using electric arc furnace slag: Applying the response surface method. *Research Journal of Chemistry and Environment*, 16(1), 80-86. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.379).
254. Moonis Ali Khan, Mohammad Ngabura, Thomas S.Y. Choong, Hassan Masood, **Luqman Abdullah Chuah** (2012). Biosorption and desorption of Nickel on oil cake: Batch and column studies. *Bioresource Technology*, 103(1), 35-42. (ISI/SCOPUS Cited Publication, Journal Impact Factor 4.980).
255. Alireza Pendashteh, **Luqman Chuah Abdullah**, A. Fakhru'l-Razi, Sayed Siavash Madaeni, Zurina Zainal Abidin and Dayang Radiah Awang Biak (2012). Evaluation of membrane bioreactor for hypersaline oily wastewater treatment. *Process Safety and Environmental Protection*, 90, 45-55. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.050).
256. Alireza Pendashteh, A. Fakhru'l-Razi, Sayed Siavash Madaeni, **Luqman Chuah Abdullah**, Zurina Zainal Abidin, Dayang Radiah Awang Biak (2012). Modeling of membrane bioreactor treating hypersaline oily wastewater by artificial neural network. *Journal of Hazardous Materials*, 192 (2), 568– 575 (ISI/SCOPUS Cited Publication, Journal Impact Factor 4.173).
257. N. Akmil, **C. A. Luqman**, M. Ahmad, and K. Zaman (2012). Improved Mechanical Properties of HDPE/Nano-Alumina Composite through Silane Coupling Agent. *AIP Conf. Proc.*1502, 500-510 (2012); doi: 10.1063/1.4769169. (ISI /SCOPUS Cited Publication).
258. Hasfalina C.M., Maryam R. Z., **Luqman C.A.**, Rashid M. (2012). Adsorption of copper (ii) from aqueous medium in fixed-bed column by kenaf fibres. *APCBEE Procedia*, 3, 255 – 263. (SCOPUS Cited Publication).

Year 2011

259. Nourouzi, M.M., **Chuah, T.G.** and Choong, S.Y.T. (2011). Glyphosate utilization as the source of carbon: Isolation and Identification of new bacteria. *E-Journal of Chemistry*, 8(4), 1582-1587. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.516).
260. Mahnaz M. Abdi, **Luqman Chuah Abdullah**, Amir R. Sadrolhosseini, Wan Mahmood Mat Yunus, Mohd Maarof H.A. Moksini, Paridah Md. Tahir (2011). Surface

plasmon resonance sensing detection of mercury and lead ions based on conducting polymer composite. *PLoS ONE*, 6(9), e24578. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 4.092).

261. H. Norzilah, A. Fakhru'l-Razi, Thomas S. Y. Choong and **A. Luqman Chuah** (2011). Surface modification effects on CNTs adsorption of methylene blue and phenol. *Journal of Nanomaterials*, vol. 2011, Article ID 495676, 18 pages, doi:10.1155/2011/495676. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.675).
262. Ahamad, I.S., Choong, T.S.Y., Yunus, R., **Chuah, T.G.** and Vassiliadis, V.S. (2011). Dynamic optimization for controller tuning with embedded safety and response quality measures. *Pertanika -Journal of Science and Technology*, 19(2), 397-414. (Indexed by EBSCO, SCOPUS Cited Publication).
263. F. Mirjalili, A. **Luqman Chuah**, Hasmaliza Mohamad, A. Fakhru'l-Razi, and A. B. Dayang Radiah (2011). Process for producing nano-alpha-alumina powder. *ISRN Nanotechnology*, article ID 692594, 5 pages, doi:10.5402/2011/692594 (Cited in Chemical Abstract Service (CAS), DOAJ, EBSCO, INSPEC).
264. F. Mirjalili, **Luqman Chuah** and Hasmaliza Mohamad (2011). Effect of stirring time on synthesis of ultrafine α -Al₂O₃ powder by a simple sol-gel process. *Journal of Ceramic Processing Research*, 12(6), 738-741 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.386).
265. K.Y. Pin, **T.G. Chuah**, A. Abdull Rashih, M.A. Rasadah, C.L. Law & T.S.Y. Choong (2011). Solid – liquid extraction of betel leaves (*Piper Betle* L.). *Journal of Food Process Engineering*, 34(3), 549–565. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.830).
266. Gregory F.L. Koay, **Teong-Guan Chuah**, Sumaiya Zainal-Abidin, Salmiah Ahmad and Thomas S.Y. Choong (2011). Solvent crystallization of palm based dihydroxystearic acid with isopropyl alcohol: Effects of solvent quantity and concentration on particle size distribution, crystal habit and morphology, and resultant crystal purity. *Industrial Crops and Products*, 34(1), 1135– 1140 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.469).
267. Nur Sulihatimarsyila Abd Wafti, Yoo, Cheah Kien, Lin, Siew Wai, Thomas, Choong Shean Yaw, **Luqman Chuah Abdullah** (2011). Regeneration and characterization of spent bleaching clay. *Journal of Oil Palm Research*, 23(1), 999-1004. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.237).
268. Nur Sulihatimarsyila Abd Wafti, Yoo, Cheah Kien, Lin, Siew Wai, Thomas, Choong Shean Yaw, **Luqman Chuah Abdullah** (2011). Deoiling efficiency for oil extraction from spent bleaching clay and the quality of recovered oil. *Journal of Oil Palm Research*, 23(1), 1005-1010. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.237).
269. Yeoh Beng Hoong, Md. TahirParidah, Yueh Feng Loh, Harun Jalaluddin, **Luqman Chuah A.** (2011). A new source of natural adhesive: acacia mangium bark extracts co-polymerized with phenol-formaldehyde (PF) For bonding Mempisang (*Annonaceae* Spp.) veneers. *International Journal of Adhesion & Adhesives*, 31, 164–167 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.170).
270. Muhammad, Moonis Ali Khan, Thomas S.Y. Choong, **T.G. Chuah**, Robiah Yunus, Y.H. Taufiq Yap (2011). Desorption of β -carotene from mesoporous carbon coated monolith: Isotherm, kinetics and regeneration studies. *Chemical Engineering Journal*, 173, 474– 479. (ISI/SCOPUS Cited Publication, Journal Impact Factor 3.461).
271. Muhammad, **Chuah T.G.**, Robiah Yunus, Suraya A. R., T.S.Y. Choong (2011). Single and binary adsorptions isotherms of Cd (II) and Zn (II) on palm kernel shell based

- activated carbon, *Desalination and Water Treatment*, 29, 140-148. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.614).
272. Darmadi, Thomas S.Y. Choong, **Chuah T.G.**, Y.H. Taufiq Yap and Anwar Thaib (2011). Use of Box-Behnken design in the preparation of mesoporous carbon coated monolith - BET surface area. *Research Journal of Chemistry and Environment*, 15(2), 928-932 (ISI/SCOPUS Cited Publication, **Journal Impact Factor, 0.292**).
273. Setareh Monshi Toussi, A. Fakhru'l-Razi, **Luqman Chuah A.** and A. R. Suraya (2011). Optimization of synthesis condition for carbon nanotubes by catalytic chemical vapor deposition (CCVD). *IOP Conf. Series: Materials Science and Engineering* 17, art. No. 012003 (ISI Thomson Routhier/SCOPUS Cited Publication).
274. M. Mohsen Nourouzi, **T.G. Chuah** and Thomas S.Y. Choong. (2011). Optimization of reactive dye removal by sequential electrocoagulation-flocculation method: Comparing ANN and RSM prediction. *Water Science and Technology*, 63(5), 985-995. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.122).
275. Alireza Pendashteh, A. Fakhru'l-Razi, Sayed Siavash Madaeni, **Luqman Chuah Abdullah**, Zurina Zainal Abidin, Dayang Radiah Awang Biak (2011). Membrane Fouling Characterization in a Membrane Bioreactor (MBR) Treating Hypersaline Oily Wastewater. *Chemical Engineering Journal*, 168 (1), 140-150. (ISI/SCOPUS Cited Publication, Journal Impact Factor 3.461).
276. Z.A. Anis Sakinah, C.T. Ratnam, A. **Luqman Chuah**, Thomas S.Y. Choong (2011). Performance of irradiated and crosslinked ethylene vinyl acetate/waste tire dust (EVA/WTD) blend. *Journal of Elastomers and Plastics*. 43(3), 239 - 256. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.510).
277. Gregory F.L. Koay, **Teong-Guan Chuah**, Sumaiya Zainal-Abidin, Salmiah Ahmad and Thomas S.Y. Choong (2011). Development, characterization and commercial application of palm based dihydroxystearic acid and its derivatives: an overview. *Journal of Oleo Science*, 60(5), 237-265. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.417).
278. N. Akmil, **C. A. Luqman**, M. Ahmad, K. Zaman (2011). Nano-alumina and radiation effect on the mechanical properties of high-density polyethylene/hydroxy apatite composite. *Key Engineering Materials*, Vols. 471-472, 121-126. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.224).
279. Setareh Monshi Toussi, A. Fakhru'l-Razi, **A. Luqman Chuah** and A.R. Suraya (2011). Effect of synthesis condition on the growth of SWCNTs via catalytic chemical vapor deposition. *Sains Malaysiana*, 40(3), 197–201. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.268).
280. K.Y. Pin, C. Ilicali, **A. Luqman Chuah**, T.S.Y. Choong, M.N Muhammad Shahrul, M.A. Rasadah, C.L. Law (2011). Modelling of freezing kinetics of extract of betel leaves (*Piper betle L.*). *International Journal of Food Engineering*, 7(1), article 15. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.463).
281. F. Mirjalili, H. Mohamad, **L. Chuah** (2011). Preparation of nano-scale α -Al₂O₃ powder by the sol-gel method. *Ceramics-Silikáty*, 55(4), 378-383. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.382).

a. Year 2010

282. Behjat Tajeddina, Russly Abdul Rahman, **Luqman Chuah Abdulah** (2010). The effect of polyethylene glycol on the characteristics of kenaf cellulose/low-density polyethylene biocomposites. *International Journal of Biological Macromolecules*. 47, 292–297. (ISI/SCOPUS Cited Publication, Journal Impact Factor 3.909).

283. Behjat Tajeddin and **Luqman Chuah Abdulah** (2010). thermal properties of high-density polyethylene-kenaf cellulose composites. *Polymers and Polymer Composites*, 18(5), 257-261. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.326).
284. M. Mohsen Nourouzi, **T.G. Chuah** and Thomas S.Y. Choong. (2010). Adsorption of glyphosate onto activated carbon derived from waste newspaper. *Desalination and Water Treatment*. 24, 321-326. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.614).
285. Keshani, S., **Luqman Chuah, A.**, Nourouzi, M. M., Russly A.R. and Jamilah, B. (2010). Optimization of the concentration process on pomelo fruit juice using response surface methodology (RSM). *International Food Research Journal*, 17, 733-742. (SCOPUS Cited Publication).
286. K.Y. Pin, A. **Luqman Chuah, A.**, Abdull Rashih, M.P. Mazura, J. Fadzureena, S. Vimala1 & M. A. Rasadah (2010). Antioxidant and anti-inflammatory activities of extracts of betel leaves (*Piper betle*) from solvents with different polarities. *Journal of Tropical Forest Science*, 22(4), 448–455. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.467).
287. Mobarekeh Mohsen Nourouzi, **Teong Guan, Chuah**, Thomas S.Y. Choong (2010). Optimization of flocculation process for cut-stone wastewater: effect of rapid mix parameters. *Desalination and Water Treatment*, 22, 127-132. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.614).
288. F. Mirjalili, M. Hasmaliza, **L. Chuah Abdullah** (2010). Size-controlled synthesis of nano α -alumina particles through the sol–gel method. *Ceramics International*. 36(4), 1253-1257. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.751).
289. Solomon Giwa, **Luqman Chuah Abdullah** and NorMariah Adam (2010). Investigating “Egusi” (*Citrullus Colocynthis L.*) seed oil as potential biodiesel feedstock. *Energies*, 3(4), 607-618. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.865).
290. M. Hasfalina, R. Z. Maryam, **C. A. Luqman**, M. Rashid (2010). The potential use of kenaf as a biosorbent for the removal of copper and nickel from single and binary aqueous solution. *Journal of Natural Fibers*. 7, 267-275. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.250).
291. Muhammad, Thomas S.Y. Choong, **T.G. Chuah**, Robiah Yunus, Y.H. Taufiq Yap (2010). Adsorption of β -carotene onto mesoporous carbon coated monolith in isopropyl alcohol and n-hexane solution: equilibrium and thermodynamic study. *Chemical Engineering Journal*, 164, 178-182. (ISI/SCOPUS Cited Publication, Journal Impact Factor 3.461).
292. A.R. Pendashteh, A. Fakhru'l-Razi, **A. Luqman Chuah**, A.B. Dayang Radiah, S.S. Madaeni and Z.A. Zainal (2010). Biological treatment of produced water in a sequencing batch reactor by a consortium of isolated halophilic microorganisms. *Environmental Technology*, 31 (11), 1229-1239. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.406).
293. M.T. Paridah, Y.B. Hoong, **C.A. Luqman**, M. P. Koh, Y. F. Loh (2010). *Acacia mangium* tannin as formaldehyde resin in bonding tropical plywood. *Journal of Adhesion Science and Technology*, 24, 1653–1664. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.948).
294. Z. A. Sumaiya, **A. Luqman Chuah**, G. F. L. Koay, A. Salmiah and T. S. Y. Choong (2010). Effect of solvent concentration and cooling modes on morphological, particle size distribution and yield of dihydroxystearic acid (DHSA) particles. *Particulate Science and*

Technology. 28(3), 236-246. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.545).

295. Shariza Binti Jamek, Ngoh Gek Cheng and **Chuah Teong Guan** (2010). the isolation and amplification of full-length cDNA of oleosins from oil palm (*Elaeis guineensis* Jacq.). *African Journal of Biotechnology*, 9(13), 1859-1863. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.573).
296. **Luqman Chuah A**, Muhammad, Saidatul Shima J. and Thomas S. Y. Choong (2010). Modelling of single and binary adsorptions of heavy metals onto activated carbon - Equilibrium studies. *Pertanika -Journal of Science and Technology*, 18(1), 83-93. (Indexed by EBSCO, SCOPUS Cited Publication).
297. C.L. Beh, **Luqman Chuah**, Thomas S.Y. Choong, Mohd. Zakwan B. Kamarudzaman and Khalina Abdan (2010). Adsorption study of electric arc furnace slag for the removal of manganese from solution. *American Journal of Applied Sciences*, 7 (4), 442-446. (SCOPUS Cited Publication).
298. Fakhru'l-Razi, Alireza Pendashteh, Zurina Zainal Abidin, **Luqman Chuah Abdullah**, Dayang Radiah Awang Biak, Sayed Siavash Madaeni (2010). Application of membrane-coupled sequencing batch reactor for oilfield produced water recycle and beneficial re-use. *Bioresource Technology*, 101(18), 6942-6949. (ISI/SCOPUS Cited Publication, Journal Impact Factor 4.498).
299. A.W. Nursulihatimarsyila, K.Y. Cheah, **T.G. Chuah**, W.L. Siew and T. S.Y. Choong (2010). Deoiling and regeneration efficiencies of spent bleaching clay. *American Journal of Applied Sciences*, 7(3), 434-437 (SCOPUS/ISI Thomson Rouser Cited Publication).
300. Rashimi W., Choong T.S. Y., **Chuah T.G.**, Hussain S.A. and Khalid M. (2010) Effect of interphase forces on two –phase liquid flow in horizontal pipe. *IEM Journal*, 71(2), 35-40 (Non-cited publication).
301. Y.L. Lai, **T. G. Chuah**, L.F. Razon, I.S. Ahmad and Thomas S.Y. Choong (2010). An overview on convergence acceleration of cyclic adsorption processes. *IEM Journal*, 71(1), 38-43 (Non-cited publication).

Year 2009

302. Chiou Moi Yeoh, Thomas Shean Yaw Choong, **Luqman Chuah Abdullah**, Robiah Yunus and Wai Lin Siew (2009). Influence of silica gel in production of diacylglycerol via enzymatic glycerolysis of palm olein. *Eur. J. Lipid Sci. Technol.* 111, 599–606. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.033).
303. Darmadi, Thomas S. Y. Choong, **T. G. Chuah**, Robiah Yunus and Y. H. Taufiq Yap (2009). Development of Polymer Derived Carbon Coated Monolith for Liquid Adsorption Application by Response Surface Methodology. *Can. J. Chem. Eng.*, 87, 591–597. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.313).
304. M. M. Nourouzi, **T G Chuah**, Thomas S. Y. Choong (2009). Equilibrium and kinetic study on reactive dyes adsorption by palm kernel shell-based activated carbon: In single and binary systems. *Journal of Environmental Engineering-ASCE*, 135(12), 1393-1398. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.312).
305. Khalid M., Ratnam C. T., **Luqman Chuah A.**, Salmiaton A., Thomas S.Y. Choong and Jalaludin H. (2009). Thermal and dynamic mechanical behavior of cellulose and oil palm empty fruit bunch (OPEFB) filled polypropylene biocomposites. *Polymer-Plastics Technology and Engineering*. 48, 1244-1251. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.279).

306. Z.A. Anis Sakinah, C. T. Ratnam, **A. Luqman Chuah** and Thomas S.Y. Choong (2009). Effect of mixing conditions on the tensile properties of ethylene vinyl acetate/waste tire dust (EVA/WTD) blend. *Polymer-Plastics Technology and Engineering*, 48, 1139-1142. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.279).
307. Adel Al-Kdasi, Azni Idris, **Luqman Chuah Abdullah** Mohanud El-Harbawi Mogreeb alzkry and Chun- Yang Yin (2009). Development of a software to simulate effluent characteristics of textile wastewater treatment. *International Journal of Process Systems Engineering*, 1(1), 82-99. (Non-cited Publication).
308. Chong C. H., Law C.L., Cloke M. W., **Luqman Chuah A.**, Wan Ramli W. D. (2009). Kinetics of mass transfer, colour, total polyphenol and texture change of manilkara zapota during convective air drying. *ASEAN Journal of Chemical Engineering*, 9 (1), 47-58 (SCOPUS Cited Publication).
309. **Luqman Chuah** and A. Fakhru'l-Razi (2009). Boiler emission test using blended crude palm oil/medium fuel oil as biofuel: A case study in Malaysia. *International Review of Chemical Engineering*, 1(4), 329-333. (Cited in Cambridge Scientific Abstracts).
310. M. M. Nourouzi, A., **Luqman Chuah**, Thomas S. Y. Choong (2009). Adsorption of reactive dyes by palm kernel shell activated carbon: Application of film surface and film pore diffusion models. *E-Journal Chemistry*, 6(4), 949-954 (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.516).
311. Y.B. Hoong, M.T. Paridah, **C.A. Luqman**, M. P. Koh, Y. F. Loh (2009). Fortification of sulfited tannin from the bark of *Acacia mangium* with phenol-formaldehyde for use as plywood adhesive. *Industrial Crops and Products*, 30(3), 416-421. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.469).
312. Ahmadun Fakhru'l-Razi, Alireza Pendashteh, **Luqman Chuah Abdullah**, Dayang Radiah Awang Biak, Sayed Siavash Madaeni, Zurina Zainal Abidin (2009). Review of technologies for oil and gas produced water treatment. *Journal of Hazardous Materials*. 170, 530-551 (ISI/SCOPUS Cited Publication, Journal Impact Factor 4.173).
313. Chien Hwa Chong, Chung Lim Law, Michael Cloke, **Luqman Chuah Abdullah** and Wan Ramli Wan Daud (2009). Drying models and quality analysis of sun-dried ciku. *Drying Technology*, 27, 985-992. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.084).
314. Behjat, T., Russly, A. R., **Luqman, C. A.**, Yus, A. Y. and Nor Azowa (2009). Effect of PEG on the biodegradability studies of Kenaf cellulose -polyethylene composites. *International Food Research Journal*, 16, 243-247 (Scopus Cited Publication).
315. Behjat Tajeddin, Russly Abdul Rahman and **Luqman Chuah Abdulah** (2009). Mechanical and morphological properties of kenaf cellulose/LDPE biocomposites. *American-Eurasian J. Agric. & Environ. Sci.*, 5 (6), 777-785. (EBSCO Cited Publication).
316. Behjat Tajeddin, Russly Abdul Rahman, **Luqman Chuah Abdulah**, Nor Azowa Ibrahim and Yus Aniza Yusof (2009). Thermal properties of low-density polyethylene - filled kenaf cellulose composites. *European Journal of Scientific Research*, 32(2) 223-230. (Scopus Cited Publication).
317. Lai Y.L., Choong T.S.Y., **Chuah T. G.**, Ahmmad I.S., Razon L. F. (2009). Hybrid algorithm for acceleration of convergence to cyclic steady state. *Journal of Applied Science*, 9(17), 3025-3026. (Scopus and ISI Cited Publication).
318. F. Mirjalili, L. Chuah, A.B. Dayang, M. Hasmaliza, R. Aghababazadeh and F. Ahmadun (2009). Mechanical properties of α -Al₂O₃/PP nanocomposite. *Journal of Applied Science*, 9(17), 3199-3201 (Scopus and ISI Cited Publication).

319. Rashmi G. Walvekar, Thomas S.Y. Choong, S.A. Hussain, M. Khalid, **T.G. Chuah** (2009). Numerical study of dispersed oil-water turbulent flow in horizontal tube. *Journal of Petroleum Science and Engineering*, 65, 123-128. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.869).
320. Gregory F. L. Koay, **Chuah Teong Guan**, Sumaiya Zainal-Abidin, Salmiah Ahmad and Thomas S. Y. Choong (2009). Habit and morphology study on the oil palm based 9, 10-dihydroxystearic acid (DHSA) crystals. *Materials Chemistry and Physics*, 114(1), 14-17. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.234).
321. K.Y. Pin, **T.G. Chuah**, A. Abdull Rashih, C.L. Law, M.A. Rasadah and T.S.Y. Choong (2009). Drying of betel leaves (*Piper betle L.*): Quality and drying kinetics. *Drying Technology*, 27 (1), 149 — 155. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.084).
322. N.L. Chin, S.M. Chan, Y.A. Yusof, **T.G. Chuah**, R.A. Talib (2009). Modelling of rheological behaviour of pummelo juice concentrates using master-curve. *Journal of Food Engineering*, 93 (2), 134–140. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.414).
323. **Luqman Chuah**, Jolius Gim bun, A. Fakhru'l-Razi, B.S. Barkawi and Thomas S.Y. Choong (2009) Prediction of CO and NO_x Abatement in Catalytic Converter of Compressed Natural Gas Vehicle (CNGV) Cold-Start Engine. *Journal of Nature Science and Sustainable Technology*, 3(3),195-210. (Non-Cited Publication).
324. S. M. D. Ghasimi, A. Idris, **T. G. Chuah** and B. T. Tey (2009). The Effect of C:N:P ratio, volatile fatty acids and Na⁺ levels on the performance of an anaerobic treatment of fresh leachate from municipal solid waste transfer station. *African Journal of Biotechnology*, 8(12), 2763-2773. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.547).
325. S. M. D. Ghasimi, A. Idris, **T. G. Chuah** and B. T. Tey (2009). Semi-continuous anaerobic treatment of fresh leachate from municipal solid waste transfer station. *African Journal of Biotechnology*, 8(18), 4572-4581. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.573).
326. Maryam Jocar, Russly Abdul Rahman, Nor Azowa Ibrahim, **Luqman Chuah Abdullah**, Tan Chin Ping (2009). Characterization and biocompatibility properties of silver nanoparticles produced using short chain polyethylene glycol. *Journal of Nano Research*, 9, 29-37. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.630).
327. **Luqman Chuah A.**, Jolius Gim bun, Thomas S. Y. Choong, Fakhru'l-Razi A. (2009). A CFD analysis on the effect of vortex finder and cylindrical length on cyclone hydrodynamics and centrifugal force. *IEM Journal*, 71(2), 51-58 (Non-Publication).
328. Jolius Gim bun, Ili Izyan Safuraa Abdul Karim, **Abdullah Luqman Chuah** (2009). Three-dimensional cfd study of a candle ceramic filter. *JURNAL UMP-Kejuruteraan & Sains Komputer*, 1(1), 39-46. (Non-Cited Publication).

Year 2008

329. **Luqman Chuah A.** and Fakhru'l_Razi A. (2008). Forest conservation for climate changes: From legislation to clean development mechanism (CDM) potential of forest plantations in Malaysia" (in Italian). *Environmental Law Review Journal (Rivista Giuridica dell'Ambiente)*, n. 6, 1058-1065. (Non-Cited Publication).
330. **Teong Guan Chuah**, Ling Cherlyn, Nyuk L Chin, Thomas S.Y. Choong, Fakhru'l-Razi Ahmadun (2008). Effects of temperatures on rheological behavior of dragon fruit

- (*Hylocereus sp.*) juice. *International Journal of Food Engineering*, 4(7), article 4. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.463).
331. Nyuk L Chin, Suit M Chan, Yus Aniza Yusof, **Teong Guan Chuah**, Rosnita A Talib (2008). Prediction of physicochemical properties of pummelo juice concentrates as a function of temperature and concentration. *International Journal of Food Engineering*, 4(7), article 5. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.463).
332. Syaubari, M. Saari, **T. G. Chuah**, G. Zulkafli, M. Ishak, S. M. Sapuan (2008). Preparation of conjugated *p*-aminobenzamidine on thermosensitive poly (NIPAM) by irradiation grafted process. *Polymer-Plastics Technology and Engineering*. 47(7), 692 – 696. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.279).
333. **Teong Guan Chuah**, Samaneh Keshani, Nyuk L. Chin, Mun Chien Lau, and Daniel S.J. Chin (2008). Rheological properties of diluted pummelo juice as affected by three different concentrations. *International Journal of Food Engineering* 4(5), article 1. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.463).
334. Chong Chien Hwa, Law Chung Lim, Michael Cloke, **Luqman Chuah Abdullah** and Wan Ramli Wan Daud. (2008). Drying kinetics, texture, colour and determination of effective diffusivities during sun drying of chempedak. *Drying Technology*, 26(10), 1286-1293. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.084).
335. Chien Hwa Chong, Chung Lim Law, Michael Cloke, Ching Lik Hii, **Luqman Chuah Abdullah** and Wan Ramli Wan Daud (2008). Drying kinetics and product quality of dried chempedak. *Journal of Food Engineering* 88 (4), 522-527. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.414).
336. Khalid. M., Ratnam. C. T., **Chuah T. G.**, Salmiaton Ali, Thomas S.Y. Choong (2008). Comparative study of polypropylene composites reinforced with oil palm empty fruit bunch fiber and oil palm derived cellulose. *Materials and Design*, 29(1), 173-178. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.200).
337. Khalid. M., Salmiaton Ali, **Chuah T. G.**, Ratnam. C. T., Thomas S.Y. Choong (2008). Effect of MAPP and TMPA as compatibilizer on the mechanical properties of cellulose and oil palm fiber empty fruit bunch-polypropylene biocomposites. *Composite Interfaces*, 15 (2-3), 251-262 (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.581).
338. Min Min A., **Chuah T.G.** and Chantara T.R. (2008). Thermal and dynamic mechanical analysis of polyethylene modified with crude palm oil. *Materials and Design*, 29 (5), 992-999. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.200).
339. Darmadi, Thomas S.Y. Choong, **Chuah, T.G.**, Robiah Yunus, Taufiq-Yap, Y.H. (2008). Adsorption of methylene blue from aqueous solutions on carbon coated monolith. *AJChE*, 8(1), 27-38 (Scopus Cited Publication).
340. Syaubari, Saari M, **Chuah T.G**, Zulkafli G, Ishak M (2008). Modeling and kinetic determination in affinity precipitation of trypsin. *Malaysian Journal of Mathematical Sciences*, 2(2), 161-171 (Scopus Cited Publication).
341. M. Khalid, A. Salmiaton, C. T. Ratnam, **C. A. Luqman** (2008). Effect of trimethylolpropane triacrylate (TMPTA) on the mechanical properties of palm fiber empty fruit bunch and cellulose fiber biocomposite *Journal of Engineering Science and Technology*, 3(2), 153 – 162 (Scopus Cited Publication).
342. Najua Delaila Tumin, **A. Luqman Chuah**, Z. Zawani, Suraya Abdul Rashid (2008). Adsorption of Copper from Aqueous Solution by *Elais Guineensis* Kernel Activated Carbon. *Journal of Engineering Science and Technology*, 3(2), 180 – 189. (Scopus Cited Publication).

343. Seyed Mohammad Dara Ghasimi, Azni Idris, Fakhru'l Razi Ahmadun, Beng Ti Tey, **Teong Guan Chuah** (2008). Batch anaerobic treatment of fresh leachate from transfer station. *Journal of Engineering Science and Technology*, 3(3), 256-264 (Scopus Cited Publication).

Year 2007

344. Anita A.B., Robiah, Y., **Luqman Chuah, A.**, and Fakhru'l-Razi Ahmadun (2007). Study on effect of hydroxyl group on lubrication properties of palm based trimethylolpropane esters: development of synthesis method. *Journal of Applied Sciences*. 7(15), 2011-2014. (SCOPUS and ISI Cited Publication).
345. Siti Zubaidah, S., Robiah, Y., **Luqman Chuah, A.** and Fakhru'l-Razi Ahmadun (2007). Batch production of trimethylolpropane ester from palm oil as lubricant base stock. *Journal of Applied Sciences*. 7(15), 2002-2005. (SCOPUS and ISI Cited Publication).
346. Z.A. Sumaiya, Gregory F. L. Koay, **T.G. Chuah**, S. Parthiban, Y. Robiah, A. Salmiah and Thomas S.Y. Choong (2007). Effect of cooling modes on solvent crystallization of palm oil based dihydroxystearic acid using ethanol. *Journal of Applied Sciences*. 7(15), 2222-2225. (SCOPUS and ISI Cited Publication).
347. Thomas Choong S.Y., **Chuah T. G.**, Robiah Y., Gregory Koay F. Y. and Azni I. (2007). Arsenic toxicity, health hazards and removal techniques from water: An overview. *Desalination*. 217, 139-167. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.590).
348. **Chuah T. G.**, Hairul Nisah H., Thomas Choong S. Y., Chin N. L. and Nazimah Sheikh A.H. (2007). Effects of temperature on viscosity of *Dodol (Concoction)*. *J. of Food Engineering*. 80, 423-430. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.414).
349. **Luqman Chuah A.**, Wong L. I., Sa'ari M., Salmiaton A., Abdul Rashid M. S. (2007). The particulate matter dispersion and haze occurrence potential studies at a local palm oil mill in Malaysia. *International Journal of Environmental Science and Technology*. 4(2), 271-278. (ISI/SCOPUS Cited Publication, Journal Impact Factor 3.051).
350. Chung Lim, Law; Wan Ramli Wan Daud and **Luqman Chuah Abdullah** (2007). Design of hybrid heat pump dryer-dehumidifier for drying of agricultural products. *Chemical Engineering Transactions*, 12, 263-268. (SCOPUS Cited Publication).
351. El-Harbawi M., **Luqman Chuah A.**, Thomas Choong S. Y., Sa'ari M. and Azni I. (2007). Linear stability of thin liquid film on solid surface under effect of a polar and electrostatic forces. *Jurnal Teknologi*, 46 (F), 41-50 (SCOPUS Cited Publication).
352. Al-Kdasi, A. Idris, **L.C. Abdullah**, K. Saed (2007). Formulations of process treatment options for textile wastewater. *Malaysian Journal of Chemical Engineering*, 1, 11-28 (Non-Cited Publication).
353. Azhari, R. Yunus, S.A. Rasyid, **L.C. Abdullah** (2007). Synthesis of palm biodiesel using sodium methoxide catalyst. *Malaysian Journal of Chemical Engineering*, 1, 61-71 (Non-Cited Publication).

Year 2006

354. A.A. Muataz, F. Ahmadun, **C.T. Guan** and E. Mahdi and A. Rinaldi (2006). Effect of reaction temperature on the production of carbon nanotubes. *NANO: Brief Report and Reviews*, 1(3), 251-257. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.951).

355. Muataz Ali Atieh, Nazlia Girun, El-Sadig Mahdi, Hairani Tahir, **Chuah Teong Guan**, Maan Fahmi Alkhatib, Fakhru'l-Razi Ahmadun, Dayang Radia Baik (2006). Effect of multi-wall carbon nanotubes on the mechanical properties of natural rubber. *Fullerenes, Nanotubes and Carbon Nanostructures*. 14(4), 641-649. (ISI/SCOPUS Cited Publication, Journal Impact Factor 0.772).
356. **Chuah T. G.**, Wan Azlina Abdul Ghani, Robiah Yunus and Rozita Omar (2006). Biomass as the renewable energy sources in Malaysia: An overview. *Int. J. of Green Energy*, 3, 323-346. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.188).
357. Chantara Thevy Ratnam, Min Min A, **Chuah T. G.**, Suraya A.R., Thomas S.Y.Choong and Wan Hasamuddin W.H, (2006). Physical properties of polyethylene modified with crude palm oil. *Polymer-Plastics Technology and Engineering*, 45, 917-922. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.279).
358. Fakhru'l-Razi A., M. A. Atieh, N. Girun, **T. G. Chuah**, M. El-Sadig, D. R.A. Biak (2006). Effect of multi-wall carbon nanotubes on the mechanical properties of natural rubber. *Composite Structures*, 75, 496-500. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.240).
359. **T. G. Chuah**, Jolius Gimbut, Thomas S. Y. Choong (2006). A CFD study in the effect of cone dimension. *Powder Technology*, 162, 126-132. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.080).
360. G. F. L. Koay, **L. Chuah Abdullah**, R. Yunus, S. Y. Thomas Choong, P. Siwayanan and A. Salmiah (2006). Crystallization of dihydroxystearic acid (DHSA) produced from commercial grade palm oil based crude oleic acid employing isopropyl alcohol as solvent. *International Journal of Engineering and Technology*,3(1), 115-124. (Scopus Cited Publication).
361. M. Khalid, S. Ali, **L. Chuah Abdullah**, C.T Ratnam and S.Y. Thomas Choong (2006). Effect of MAPP as coupling agent on the mechanical properties of palm fiber empty fruit bunch and cellulose polypropylene biocomposites. *International Journal of Engineering and Technology*. 3(1), 79-84. (Scopus Cited Publication).
362. Y. Pin, **T.G. Chuah**, A. Abdull Rashih, M.A. Rasadah, T.S.Y. Choong, and C.L. Law (2006). Effects of the concentration of *Quercus Infectoria* Galls (*Manjakani*) extract on moisture content and quality of its freeze-dried product. *International Journal of Engineering and Technology*, 3 (2), 2006, 167-174. (Scopus Cited Publication).
363. **Luqman Chuah Abdullah**, Adel Al-Kdasi, Azni Idris and Katayon Saed (2006). Oxidation of real biotreated textile wastewater using advanced oxidation process. *Journal of Applied Technology*. 4 (1), 29-39. (Non-Cited Publication).
364. Thomas S.Y. Choong, T.N. Wong, **T.G. Chuah**, Azni Idris (2006). Film-pore-concentration-dependent surface diffusion model for the adsorption of dye onto palm kernel shell activated carbon. *Journal of Colloid and Interface Science*, 301, 436-440. (ISI/SCOPUS Cited Publication, Journal Impact Factor 3.066).
365. Darmadi, Thomas S.Y. Choong, **Chuah, T.G.**, Robiah Yunus, Y.H. Taufiq Yap (2006). Linear driving force model for adsorption onto activated carbon monolith. *Jurnal Rekayasa Kimia dan Lingkungan*, 5 (1), 7, 1-7. (Non-Cited Publication).
366. Jolius Gimbut, Thomas S. Y. Choong, A. Fakhru'l-Razi, **T.G. Chuah** (2006). Evaluation on empirical models for the prediction of cyclone efficiency. *IEM Journal*, 67 (3), 29-33 (Non-Cited Publication).

367. Rozanna D., Salmiah A., **Chuah T. G.**, Medyan. R., Thomas Choong S. Y. and Sa'ari M. (2005). A study on thermal characteristics of phase change material (PCM) in gypsum board for building application. *Journal of Oil Palm Research*, 17(1), 41-46. (ISI Cited Publication, Journal Impact Factor 0.237).
368. Jumasih A., **Chuah T.G.**, Jolius G., Thomas Choong S.Y. and Azni I. (2005). Adsorption of basic dye onto palm kernel shell based activated carbon: Sorption equilibrium and kinetics studies. *Desalination*, 186, 57-64. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.590).
369. Jolius Gimbut, **T. G. Chuah**, A. Fakhru'l-Razi and Thomas S. Y. Choong (2005). The influence of temperature and inlet velocity on cyclone pressure drop: A CFD study. *Chemical Engineering and Processing*, 45 (1),7-12. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.924).
370. J. Gimbut, **T.G. Chuah**, T.S.Y. Choong, and A. Fakhru'l-Razi (2005) Prediction of the effects of cone tip diameter on the cyclone performance. *J. of Aerosol Sci*, 36,1056-1065. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.447).
371. J. Gimbut, **T.G. Chuah**, A. Fakhru'l-Razi and T.S.Y. Choong (2005). Corrigendum to [Chem. Eng. Process.45 (1):7-12]. *Chemical Engineering & Processing*, 44, 1337. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.924).
372. Jolius Gimbut, Thomas S. Y. Choong, **T.G. Chuah**, A. Fakhru' I-Razi (2005). A CFD study on the prediction of cyclones collection efficiency. *Int. J. of Computational Methods in Eng. Sci. & Mechanics*. 6, 161-168. (Scopus Cited Publication).
373. **T.G. Chuah**, A. Jumasih, I. Azni, S. Katayon and Thomas S. Y. Choong (2005). Rice husk as a potentially low cost biosorbent for heavy metals and dyes removals: An overview. *Desalination*, 175, 305-316. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.590).
374. Gimbut, J., **Chuah, T.G.**, Choong, T.S.Y., Fakhru'l-Razi, A. and Sahari, B. (2005) Modelling of catalytic converter in CNGV cold start engine, *Res. Bull. Adv. Tech.*, 2 (2), pp. 4. (Non-Cited Publication).
375. Thomas S.Y. Choong and **T.G. Chuah** (2005). Comment on "Separation of vitamin E from palm fatty acid distillate using silica: I. Equilibrium of batch adsorption by B.S. Chu et al. [Journal of Food Engineering 62 (2004) 97–103]". *Journal of Food Engineering*, 67 (3), 379 (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.414).
376. Min Min A., Medyan R. Wan Hasamuddin W. H., **Chuah T.G.**, Robiah Y., Thomas Choong S. Y. (2005). Application of differential scanning calorimetry on modified polyethylene using crude palm oil as bioactive component. *Journal of Applied Technology*, 3(1), 7-13. (Non-cited Publication).
377. Syaubari, Saari M., **Chuah T. G.**, Zulkafli G., Ishak M. (2005). Modelling and the application of a synthesized poly (NIPAM) for affinity precipitation of trypsin. *Journal of Applied Technology*, 3 (1), 44-51. (Non-Cited Publication).
378. Syaubari, Saari M., **Chuah T. G.**, Zulkafli G., Ishak M. (2005). Affinity precipitation of enzyme by conjugated ligand-poly (NIPAM) polymer. *REAKSI-Journal of Science and Technology*, 3 (6), 5-8. (Non-Cited Publication).
379. Muataz A.A., Nazlia G., Fakhru'l-Razi A., **Chuah T. G.**, El-Sadig M., Dayang R.A. B. (2005). Multi-wall carbon nanotubes/natural rubber nanocomposite. *AzoNano-OnlineJournal of Nanotechnology*, 1, 1-11. (Non-Cited Publication).

380. C Y Soo, Y L Lai, **T G Chuah**, S. Mustapha and Thomas S. Y. Choong (2005). On the effect of axial dispersion in the numerical simulation of fast cycling adsorption processes. *Jurnal Teknologi*, 43 (F), 1-13 (SCOPUS Cited Publication).
381. A.W. Nur Sulihatimarsyila, **T.G. Chuah**, Thomas S. Y. Choong and B. Thayanathan (2005). Estimation of platinum gauzes catalyst for ammonia oxidation in nitric acid production. *IEM Journal*, 66(3), 61-64 (Cited in Linda Hall Library Direct, Google Scholar).
382. **T G Chuah**, J P K Seville and C J Withers (2005) Numerical Modelling of Reverse Pulse Cleaning on Rigid Ceramic Filters, *IEM Journal*, 66(1), 29-35 (Non-cited Publication).
383. Thomas S.Y. Choong, **T.G. Chuah**, Azni Idris, Y.L. Lai, S.Y. Quek, and (2005). A film-pore-surface concentration dependent model for adsorption of dye onto activated carbon. *J. Teknologi*, 42 (F), 47-66 (*Scopus Cited Publication*).

Year 2004

384. Syaubari, Saari M., **Chuah T. G.**, Zulkafli G., Ishak M. (2004). Synthesis of Poly (NIPAM) with β -Mercaptopropionic Acid and their Conjugate to *p*-Aminobenzamidine. *Journal of Applied Technology*, 2(2), 129-133. (Non-Cited Publication).
385. Adel Al-Kdasi, Azni Idris, Katayon Saed and **Chuah Teong Guan** (2004) Treatment of textile wastewater by advanced oxidation processes- A review. *Global Nest: The International Journal*, 6 (3), 226-234. (Non-Cited Publication).
386. **T G Chuah**, C J Withers and J. P. K Seville (2004). Experimental investigation into the filtration and reverse flow cleaning modes on cylindrical and tapered rigid ceramic filters. *Separation Science and Technology*, 39 (16), 3797–3820. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.088).
387. Rozanna D., **Chuah T.G.**, Salmiah A, Thomas Choong S. Y. and Sa'ari M. (2004). Fatty acids as phase change materials (PCMs) for thermal energy storage application. *Int. J. of Green Energy*, 1(4), 495 – 513. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.188).
388. Rozanna D., Salmiah A., Medyan R., Thomas Choong S. Y. and **Chuah TG** (2004). An overview of phase change energy storage material. *Journal of Applied Technology*, 2(1), 43-52. (Non-Cited Publication).
389. **T. G. Chuah**, C. J. Withers and J. P. K. Seville (2004). Prediction and measurements of the pressure and velocity distributions in cylindrical and tapered rigid ceramic filters. *Separation and Purification Technology*, 40(1), 47-60. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.921).
390. **Chuah Teong Guan** and J.P.K. Seville (2004). Numerical simulation of dust cake build-up in rigid ceramic filters. *Journal of Industrial and Engineering Chemistry*, 10(3), 321-329. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.977).
391. G. Jolius, A. B. Dayang Radiah, **T. G. Chuah** (2004) Bioreactor design via spreadsheet – a study on the monosodium glutamate (MSG) process. *Journal of Food Engineering*, 64(3), 277-283. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.414).
392. **T.G. Chuah**, J. Gim bun, T. S. Y. Choong and B. S. Barkawi (2004). A finite element study of three-way catalytic converter for NO_x abatement under transient isothermal condition. *International Journal of Engineering and Technology*, 1(2), 2004, 188 – 196. (Scopus Cited Publication).

393. Jolius Gimbut, Thomas S. Y. Choong, A. Fakhru'l-Razi, **T.G. Chuah** (2004). Prediction of the effect of dimension, particle density, temperature and inlet velocity on cyclone collection efficiency. *Jurnal Teknologi*, 40, 37-50 (SCOPUS Cited Publication).
394. El-Harbawi M., Sa'ari M., **Chuah T. G.**, Abdul Rashid M. S. and Thomas Choong S. Y. (2004). Hazards analysis of LPG storage installation in Universiti Putra Malaysia: A preliminary study, *IEM Journal*, 65 (1-2), 44-51 (Non-Cited Publication).
395. **T.G. Chuah** and J.P.K. Seville (2004). Numerical simulation of dust cake build-up and detachment on rigid ceramic filters for high temperature gas cleaning. *IEM Journal*, 65 (1-2), 35-43. (Non-Cited Publication).

Year 2003

396. J. Seville, **T. G. Chuah**, V. Sibanda and P. Knight (2003). Gas cleaning at high temperatures using rigid ceramic filters. *Advanced Powder Technology*, 14(6), 657-672. (ISI/SCOPUS Cited Publication, Journal Impact Factor 1.612).
397. Jolius Gimbut, Thomas S. Y. Choong, **T.G. Chuah** (2003). Comment on "Performance of different analytical methods in evaluating grade efficiency of centrifugal separators", *Journal of Aerosol Science*, 31(5), 1595–1596. (ISI/SCOPUS Cited Publication, Journal Impact Factor 2.447).
398. Danna, B.M.A., Iyuke, S.E., Fakhru'l-Razi, A., **Chuah T. G.**, Atieyh, A.M. & Al-Khatib, M. F. (2003) Synthesis and characterisation of carbon nano-structures for methane storage. *Environmental Informatics Archives*, 1, 597-605. (Non-Cited Publication).
399. **T.G. Chuah**, Jolius Gimbut, Thomas S. Y. Choong, and A. Fakhru'l-Razi (2003). Numerical prediction of cyclone pressure drop. *Chemical Engineering and Environmental*, 2 (2), 1-6. (Non-Cited Publication).
400. **T.G. Chuah**, M. Halim S. I. and J. P. K. Seville (2003) Filtration and reverse pulse cleaning of rigid ceramic filter candles. *Journal of IEM*, 64(2), 40-48 (Cited in Linda Hall Library Direct, Google Scholar).
401. El-Harbawi M, Mustapha S., Idris A., **Chuah T. G.** and Jameel A. T. (2003). Linear stability of thin liquid film on solid surface under effect of apolar and polar forces. *Jurnal Teknologi*, 39 (F), 23-34 (SCOPUS Cited Publication).

Year 2002

402. **T. G. Chuah** and J. P. K Seville (2002). Measuring and modelling the performance of rigid ceramic filters. *ASEAN Journal of Chemical Engineering*, 2(1), 87-96 (SCOPUS Cited Publication).

Books and Edited Books (2003-current)

1. Ghufran R., **Chuah T. G.**, Thomas Choong S. Y., Wan Ramli, W. D. Aiman Abdalla A. S. (2003). Air Pollution. MUCED-I&UA, Universiti Malaya, Kuala Lumpur, ISBN 983-2904-01-3.
2. Wan Ramli Wan Daud, Mohd Sobri Takriff, Siti Masrinda Tasirin, Ezzat Chan Abdullah, Ahmad Kamal Ariffin, Abdul Wahab Mohammad, Andanastuti Muchtar, Shahrir Abdullah, **Chuah Teong Guan**, Nornizar Anuar dan Noorhisham Tan Kofli (eds). (2003). Proceeding of

The 2nd Asian Particle Technology Symposium, Vol 1 dan 2, Fakulti Kejuruteraan UKM. ISBN 983 – 2982 – 01- 4.

3. Fakhru-Razi, A., **Chuah T. G.**, M. Halim S. I. (2005). Safety: Principles and Practices in Laboratory, UPM Press, ISBN 983-2871-82-8.

4. Siti Mazlina Mustapa Kamal, Shafreeza Sobri, Siti aslina Hussain, Yus Aniza Yusof, Chin Nyuk Ling, Farah Saleena Taip, Suraya Abdul Rashid, **Luqman Chuah Abdullah** (2007), Editors. Proceedings of World Engineering Congress 2007: Food and Chemical Engineering Conference, August 5 -9, 2007, Penang, Malaysia, ISBN 978-983-41705-8-5.

5. Paridah M.T., **Luqman Chuah A.**, Wan Asma I., Ainun Zuriyati M.A., Anis M., Wan Hasamudin W.H. and Jalaluddin H. (2008). Utilisation of Oil Palm Tree: Strategizing for Commercial Exploitation. INTROP, Serdang, ISBN 978-983-44426-0-6.

6. Paridah T., **Luqman Chuah A.** and Norfayanti K. (editors) (2009). *Kenaf: Biocomposites, Derivatives and Economics*. INTROP, Pustaka Prinsip, Kuala Lumpur, ISBN 978-983-053-562-3.

7. **Luqman Chuah A.** and Mohd Halim Shah Ismail (2010). Hot Gas Cleaning: Particulate Removal and Desulphurization, UPM Press, ISBN 978-967-344-138-9.

8. Ahmad Ainuddin N., Ainun Zuriyati M. A., **Luqman Chuah A.**, Paridah M. T. (Eds) (2014). "Viable Bioresources for Future". INTROP UPM Press, ISBN 978-983-44426-1-3.

9. **Luqman Chuah Abdullah.** (2017). Rigid Ceramic Filters: Numerical Simulation of the Pressure and Velocity Distributions. Inaugural Lecture Series No.216. UPM Press. ISBN no. 9789673447008.

10. **Luqman Chuah A.**, Gregory Koay F. L., Sumaiya Z. A. (2018). Dihydroxystearic Acid: Purification, Derivaties and Applications. UPM Press, ISBN 978-967-344-833-3.

11. **Luqman Chuah A.**, Pin Kar Yong, Tee Lee Hong, Noor Hadzuin Nik Hadzir (2019). Sirih (Piper Betle L.): Extraction and Drying Technology of Its Bioactive Components. UPM Press, ISBN 978-967-344-940-8.

Chapter in Books

1. Ferial Ghaemi, **Luqman Chuah Abdullah** and Hidayah Ariffin (2019). Lignocellulose Structure and the Effect on Nanocellulose Production. In Hidayah Ariffin S.M. Sapuan Mohd Ali Hassan (Eds), "Lignocellulose for Future Bioeconomy". Chapter 2. Pp. 17-30. ISBN: 9780128163542

2. Jia Tian Chen, **Luqman Chuah Abdullah**, Paridah Md. Tahir (2019). Biomass Valorization for Better Aviation Environmental Impact Through Biocomposites and Aviation Biofuel. In Mohammad Jawaid, Mohamed Thariq and Naheed Saba (Eds), "Structural Health Monitoring

of Biocomposites, Fibre-Reinforced Composites and Hybrid Composites". Chapter 2. Pp. 19-31. Woodhead Publishing. ISBN 978-0-08-102291-7.

3. Nur Amirah Asifa Raisha Zahari, **Luqman Chuah Abdullah**, Chong Gun Hean (2018). Drying Kinetics of Plants. Chapter 4. Shahrul Ainliah Alang Ahmad and Gwendoline Cheng Lian Ee (Eds.) Emerging Themes in Fundamental and Applied Sciences, Volume 2. UPM Press. Pp. 48-54. eISBN 978-967-344-826-5.

4. Hasfalina Che Man, Nurul Hanira Mat Lazim, Mohd Rashid Mohd Yusof, Aida Isma Mohamad Idris, **Luqman Chuah Abdullah** and Daniel I. Onwude (2018). Treatment of Scheduled Waste Landfill Leachate: Perspective in Malaysia. Chapter 6. In "Nutrients, Wastewater and Leachate: Testing, Risks and Hazards". Nova Science Publishers, New York. ISBN: 978-1-53613-949-5

5. Mohsen M. Nourouzi, **Luqman Chuah**, Atefeh Chamani, Samaneh M. Soleimani and Nikoo Roghani Esfahan. (2018). Water Contamination by Herbicide Glyphosate: An Overview of Treatment Options. Chapter 5. In "Glyphosate: Chemistry, Uses and Safety Concerns". Nova Science Publishers, New York. ISBN: 978-1-53614-002-6.

6. Y.C. Ching, C.H. Chuah, K.Y. Ching, **L.C. Abdullah**, A. Rahman (2017). "Applications of thermoplastic-based blends" in P.M. Visakh, Gordana Markovic and Daniel Pasquini (Eds). Recent Developments in Polymer Macro, Micro and Nano Blends: Preparation and Characterization. Chapter 5. Elsevier (Woodhead Publishing), London. ISBN 978-0-08-100408-1.

7. Syeed O.A. SaifulAzry, **Teong G. Chuah**, Md T. Paridah, Min M. Aung and Edi S. Zainudin (2017). "Green nanocomposites from cellulose nanowhiskers and Jatropha oil-based polyurethane" in "Cellulose-Reinforced Nanofibre Composites: Production, Properties and Applications". Mohammad Jawaid, Sami Boufi and Abdul Khalil H.P.S. (Eds.), Elsevier, Duxford. ISBN: 978-0-08-100957-4

8. R.Z. Maryam, C.M. Hasfalina, C.A. Luqman (2017). "Kinetic study of copper (II) removal from aqueous solution onto unmodified kenaf fibre". ISHS Acta Horticulturae 1152, pp. 257-264, International Society for Horticultural Science (ISHS), Belgium. ISBN 978-94-62611-49-8.

9. Chow May Jinn, H'ng Paik San, Chin Kit Ling, Chai Ee Wen, Paridah Md Tahir, Lee Seng Hua, Lum Wei Chen, Luqman Chuah and Mariusz Maminski (2015). "Empty Fruit Bunches In The Race for Energy, Biochemical, and Material Industry" in Agricultural Biomass Based Potential Materials. Khalid Rehman Hakeem, Mohammad Jawaid and Othman Y. Allothman (Editors), Springer International Publishing, Switzerland, pp.375-389. ISBN 978-3-319-13846-6. 11.

10. Thing Chai Tham, Ching Lik Hii, Sze Pheng Ong, Luqman Chuah Abdullah and Chung Lim Law (2015). "Measurement on the Effect of Microwave Energy in Drying-Technical Review" in Processing of Foods, Vegetables and Fruits: Recent advances. Hii, C.L., Jangam, S.V., Ong, S.P., Show, P.L., Mujumdar, A.S. (Editors), Singapore, pp. 61-72. ISBN - 978-981-09-6284-5.

11. Mei Xiang Ng, Sze Pheng Ong, Nyuk Ling Chin, Luqman Chuah Abdullah, and Chung Lim Law, C.L. (2015) "Review of Food Toxicological Issues Associated in Rubber Products" in

Processing of Foods, Vegetables and Fruits: Recent Advances. C.L. Hii, S.V. Jangam, S.P. Ong, P.L. Show, A.S. Mujumdar A. S. (Editors), Singapore, pp. 73-84. ISBN - 978-981-09-6284-5. 13.

12. Mahnaz M. Abdi, Luqman C Abdullah, Paridah M. Tahir, Lukmanul H Zaini (2014). "Chapter 12: Cellulosic Nanomaterials for Sensing Applications" in Handbook of Green Materials: Processing Technologies, Properties and Applications. Kristiina Oksman, Aji P Mathew, Alexander Bismarck, Orlando Rojas, Mohini Sain (Editors), volume 3, World Scientific Publishing Company, Singapore. ISBN: 978-981-4566-45-2.

13. **Luqman Chuah Abdullah** and Yen Chen Tan (2014). Case Study: Comparison of Air Dispersion from Solid Waste Incinerator Emission Using AERMOD and ISCST3. Chapter 84. Pp.468-474. In From Sources to Solution, A.Z. Aris, T.H. Tengku Ismail, R. Harun, A.M. Abdullah and M.Y. Ishak (Eds), Springer, Singapore, ISBN 978-981-4560-69-6.

14. Z. Zawani, **L. Chuah-Abdullah**, F.-R. Ahmadun and K. Abdan (2013). Acclimatization Process of Microorganisms from Activated Sludge in Kenaf-Retting Wastewater. In Ravindra Pogaku, Awang Bono, Christopher Chu (Eds.) Developments in Sustainable Chemical and Bioprocess Technology. Springer, New York, ISBN 978-1-4614-6207-1.

15. Aini Mat Said and **Luqman Chuah Abdullah** (2012). Tenaga dan Kesannya Terhadap Manusia dan Alam Sekitar. In Norhasmah Sulaiman and Zuroni Md, Jusoh (Eds.) Kesihatan Persekitaran & Keselamatan Pengguna. UPM Press, ISBN 978-967-344-267-6.

16. Hoong YB, Paridah MT, Loh YF, Koh MP, **Luqman CA**, Zaidon A. (2010). *Acacia mangium* tannin as formaldehyde scavenger for low molecular weight phenol-formaldehyde resin in bonding tropical plywood. In: Pizzi A, Mittal K.L (Eds.) Wood Adhesives. Koninklijke Brill NV, Leiden, Netherlands. ISBN 978-900-419-093-1. pp. 305-316.

17. Ng Sim Hong, Rosfarizan Mohamad, Paridah Md. Tahir and Luqman Chuah Abdullah (2009). Paridah T., **Luqman Chuah A.** and Norfayanti K. (editors): *Kenaf: Biocomposites, Derivatives and Economics*. INTROP, Pustaka Prinsip, Kuala Lumpur, ISBN 978-983-053-562-3, Chapter 7.

18. Pin, K.Y., **Chuah, T.G.**, Abdull Rashih, A., Law C.L., Rasadah, M.A. & Choong, T.S.Y. (2008). Aqueous extraction of hydroxychavicol from leaves of Piper betle L. In: Chang Y.S., Mazurah M.P. & Nik Musaadah M. (editors): Plant, Health & Man—Past, Present & Future, Forest Research Institute Malaysia, Selangor. Pp. 78-85, Chapter 7.

Research Grants (2003-current)

No	Project Title	Amount (RM)	Year	Source of Fund
1.	Investigation of a novel approach hierarchically cellulose nanofibrillar shapes in 2D and 3D from kenaf bast fiber in making new aerogels	78K	2019-2021	FRGS, MOHE.

2.	Technical and Economic Assessment of Producing Sustainable Bio Jet Fuel in Malaysia: An Integrated Energy Approach	25,000	2018-2020	IPS, UPM
3.	Particle sizing, mechanical, morphological, rheological and powder storage stability on mixing of methyl ester sulfonates under high shear mixer	25,000	2018-2020	IPS, UPM
4.	Thermorheological behavior of polyamide 11 blends and composites	20,000	2019-2021	CRG-UPM-UTM
5.	Synthesis of Spherical Nanocellulose-Nanosilver Hybride	137,000	2017-2019	IPB, UPM
6.	Synthesis and Characterizations of Biobased Polyols Produced by Various Ring Opening Reactions of Epoxidized Vegetable Oil	138,000	2017-2019	HICOE, MOHE
7.	Waterborne Polyurethane Dispersions Synthesized from Jatropha Oil for Surface Coating: Characterization, Thermal, Rheological Properties and Storage Stability.	324,800	2016-2018	MOHE Grant Sanjungan Penyelidikan (GSP)
8.	Effect of Various Pre-Treatment on Membrane Behavior for Palm Oil Mill Effluent (POME) Quality	128,000	2012-2014	RUGS, MOHE
9.	Oil removal from palm oil mill effluent using sago waste	15,0000	2013-2015	Putra IPS
10.	Synthesis and characterization of Jatropha oil-based waterborne polyurethane coating	15,000	2013-2015	Putra IPS
11.	Application of Combined Sequencing Batch Reactor (SBR) and Adsorption for Treatment of Herbicide Glyphosate	145,000	2010-2013	RUGS, MOHE
12.	Increased Production Efficiency in Small-holder Kenaf Production Systems for Specific Industrial Applications. (CFC/IJSG/25)	USD 2Millions	2010-2013	Commodities (CFC) Fund and UNIDO

13.	Optimization of Pilot Scale Production of Standardized Extract of Safed Musli (<i>Chlorophytum borivillianum</i>)	96K	2009-2012	MOA Science Fund
14.	Kenaf Downstera Research-Biopolymer and Value-added Products	599,000	2007-2012	Economic Planning Unit, Prime Minister Office, Malaysia.
15.	Waste Solvent Recovery System (of an Azeotropic Mixtures) Using Salt-Added Batch Distillation Process: Studies of VLE, Correlation and Process Dynamics	127,000	2007-2008	FRGS, MOHE
16.	Moldable and Non-extruding Polyurethane Roofing Materials Using Palm Oil Based Eutectic Phase Change Materials as Thermal Energy Storage	223,755	2006-2008	MOSTI Science Fund
17.	Synthesis and characterization of advanced polymer for use as barrier packaging	154,500	2003-2006	IRPA
18.	Process simulation and modelling of rigid ceramic filter for high temperature gas cleaning industrial application	142,000	2003-2005	IRPA
19.	CNG/DI Engine and Transmission- Performance and Emission Studies	700,000	2003-2005	MOSTI TopDown

Intellectual Properties

A. Patents Filing

1. Direct Injection of Compressed Natural Gas (CNG) Fuel for Reciprocating Piston Internal Combustion Engine. 2006, Patent Filing, PI 20085162.
2. Building Products Having Phase Change Materials and Method of Making the Same, 2009, Patent Filing, PI 20092239.
3. Method of Adsorbing Dye in Aqueous Solution, Patent Filing, PI 201005028.
4. Synthesis of Nanometer-sized Ceramic Particle, 2010. Patent filing, PI2010006072.
5. Method and Composition for Making Mesoporous Carbon Coated Monolith, 2012. Patent filing, PI2012001326.

6. Radiation Cross-Linkable Polymer Blend. 2013. Patent filing, PI 2013000336
7. Composition comprising Phaleria leaf extract having anti-cancer activity. 2013. Patent filing, PI2013701953
8. Modified Epoxidized Natural Rubber Latex. 2014. Patent filing, PI2014701065.
9. Cellulosic Biomass Filter Bed for Removal of Oil and Grease from an Oil and Grease Suspension. 2014. Patent filing, PI2014000365
10. Method of Preparing Biosorbent and Biosorbent for Removal of Endocrine Disrupting Compounds and Heavy Metals. 2018. Patent filing, PI2018002857
11. A process for purifying methyl ester sulphonate (MES). 2019. Patent filing. PI2019005429.

B. Patents Granted

1. Polyolefin Films Modified with Crude Palm Oil (CPO) Improved Mechanical Properties. 2012, Patent Granted, MY 145775-A. for
2. Methods and Composition for Making Mesoporous Carbon Coated Monolith. 2016, Patent Granted, MY 156271-A.
3. A Composite Composition, 2019, Patent Granted, MY 169676-A.

C. Trademark/Industrial Design

1. Conical Geometry Filter Element Enhancing Reverse Flow Cleaning and Cake Detachment in Gas Cleaning Applications. Industrial Design, cClass 23-01, File No: 10-00550-0101 (Granted). 2011.
2. Trademark-PUTEX for Building Materials Using Palm Oil Based Fatty Acids as Phase Change Material (PCM), TM no: 2010022415 (Granted), 2010.

Awards

i) International Level

1. **Best Poster Award** of the 5th Regional Conference on Campus Sustainability 2018, Universiti Malaysia Sabah. 20-21 March 2018.

2. **Bronze Medal.** Different Types of Carbon Nanomaterials as Highly Efficient Sorbent for Microextraction of Different Types of Pollutions from Water Samples. The 4th International Innovation, Design and Articulation, UiTM, Perlis, 2018.
3. **Silver Medal.** Development of Biodegradable Poly(Lactice Acid)/ Kenaf Biocomposite with Epoxidised Jathopha Oil as Novel Non-Edible Types of Plastisizer for Potential Agricultural, Automotive, Building Fiber Based Industries Applications. International, Invention, Innovation and Design Competition (IID Johor 2017). 2017. UiTM, Malaysia.
4. **Silver Medal.** Development of UV Curable Waterborne Polyurethane Arcylate Coatings Derived from Vegetable Oil Based Polyol. International, Invention, Innovation and Design Competition (IID Johor 2017). 2017. UiTM, Malaysia.
5. **Silver Medal.** Different Types of Carbon Nanomaterials and Graphene as Adsorption Phase in Solid Phase Extraction Method. International, Invention, Innovation and Design Competition (IID Johor 2017). 2017. UiTM, Malaysia.
6. **Bronze Medal.** Different Types of Carbon Nanomaterials and Graphene on Carbon Fiber: Synthesis and Application in Polymer Composite. International, Invention, Innovation and Design Competition (IID Johor 2017). 2017. UiTM, Malaysia.
7. **Bronze Medal.** Quaternized Kenaf Core Fiber as Adsorption Material. International, Invention, Innovation and Design Competition (IID Johor 2017). 2017. UiTM, Malaysia.
8. **Best of the Best Award.** Sun UV/VIS: A Novel Nanobiocomposite Lacquer with Blocking and Visibe Light Control Properties. 4th International, Invention, Innovation and Design (INDES 2015). 2015. UiTM, Malaysia.
9. **Gold Medal.** Sun UV/VIS: A Novel Nanobiocomposite Lacquer with Blocking and Visibe Light Control Properties. 4th International, Invention, Innovation and Design (INDES 2015). 2015. UiTM, Malaysia.
10. **Gold Medal.** Sagozorb 2.0. BIS World Invention Awards 2014. London, UK.
11. **Gold Prize.** Waterbone Polyurethane Coating Derived from Vegetable Oil based Polyol. International Engineering Invention & Innovation Exhibition (i-ENVEX) 2014, UNIMAP, Malaysia.
12. **Gold Medal.** Optical Sensor for Heavy Metal Detection Based on Chitosan. Innovation Industrial Design and Technology Exhibition (I-TEX 2013), 2013, MINDS, Kuala Lumpur, Malaysia.
13. **Gold Medal,** 'Treatment of oilfield produced water with isolated tropical hypersaline microorganisms in membrane bioreactor for recycle and beneficial reuse', British Invention Show (BIS) 2009, London, UK.
14. **3rd Prize** in the Competition for the Best Poster: Zdenek Buriance Memorial Award-Design of Hybrid Heat Pump Dryer- Dehumidifier for Drying of Agricultural Products on event of 10th Conference on Process Integration, Modelling and Optimization for Energy Saving and Pollution Reduction, Ischia, Italy, 2007, International.

15. **Special Award - PRICE OF POLISH ASSOCIATION OF INVENTORS GIVEN BY THE VICE PRESIDENT ADAM RYLSKI'** Compressed Natural Gas Direct Injection Passenger Vehicle, Eureka 2006, Brussels, Belgium, 2006, International.

16. **Gold Medal,** 'Compressed Natural Gas Direct Injection Passenger Vehicle, Eureka 2006, Brussels, Belgium, 2006, International.

17. **British Council ODA Award,** 1997, International.

ii) **National Level**

1. **Bronze Medal.** Magic Poly Bead: New Alternative for Heavy Metals and Dyes Removal. First Science Innovation Exhibition 2020. UiTM, Malaysia.

2. **Gold Medal.** Poly Bead: Amidoxime Modified Poly(acrylonitrile-Grafted-Microcrystalline Cellulose) a New Adsorbent in Removing Heavy Metals Ion. Virtual Innovation Competition 2020. UiTM, Malaysia.

3. **Silver Medal.** Biobased Waterborne Polyurethane Dispersion from Vegetable Oil. Pereka 2019. University Malaysia Sabah, Malaysia.

4. **Bronze Medal.** Green Catalyst for Biodiesel Production. Technology Preview & Showcase Program 2018. Malaysian Nuclear Agency. Kajang, Selangor. 30 October -2 November 2018.

5. **Bronze Medal.** Assymetic HDPE/PANI and CNT Electrodes for Hybrid Pseudocapacitor. Malaysia Technology Expo (MTE 2017), Kuala Lumpur, 2017.

6. **Gold Medal.** SagoZorb 2.0: Biomass Filter Bed for Oil and Grease Removal. UNIMAS R&D Expo 2014, UNIMAS, Kota Samarahan, Sarawak.

7. **Bronze Medal.** High-Quality Nutraceutical Product from Orthosiphon stamineus. Malaysia Technology Expo (MTE 2014), Kuala Lumpur, 2014.

8. **Bronze Medal.** High Quality Nutraceutical Product from Orthosiphon Stamineus. Bioinnovation Awards 2013, Johor Bahru, 2013.

9. **Gold Medal.** Radicross Recycle Rubber for Diverse Sealing Application. Malaysia Technology Expo (MTE 2012), Kuala Lumpur, 2012.

10. **Silver Medal.** Building Products Having Phase Change Materials. Malaysia Technology Expo (MTE 2012), Kuala Lumpur, 2012.
11. **Bronze Medal,** Biomass Adsorbent. Bioinnovation Awards 2011, Kuala Lumpur, 2011.
12. **Silver Medal,** Radicross Recycle Rubber for Diverse Sealing Application. Rekacipta & Inovasi Nuklear Malaysia, 19-21 July 2011, Bangi, Selangor.
13. **Bronze Medal,** A Novel Biofiller for Biocomposite Applications. International Invention Innovation Industrial Design and Technology Exhibition (I-TEX 2011), Kuala Lumpur, 2011.
14. **Bronze Medal,** Polyolefin films modified with crude palm oil (CPO) for improved mechanical properties'. MalaysiaTechnology Expo (MTE 2011), Kuala Lumpur, 2011.
15. **2nd Prize,** Best Poster Award. Optimization of Drying Process of Leaf Extract of Piper betle Sirih, 12th Medicinal & Aromatic Plants Seminar (MAPS2010), Kuala Lumpur, 2010.
16. **Silver Medal,** 'Treatment of oilfield produced water with isolated tropical hypersaline microorganisms in membrane bioreactor for recycle and beneficial reuse.' International Invention Innovation Industrial Design and Technology Exhibition (I-TEX 2009), Kuala Lumpur, 2009.
17. **Bronze Medal,** 'Hybrid Heat Pump Dryer', Malaysia Technology Expo (MTE 2009), Kuala Lumpur, 2009.
18. **Gold Medal,** 'Rigid Ceramic Filter for High Temperature Gas Cleaning Industrial Applications', MalaysiaTechnology Expo (MTE 2008), Kuala Lumpur, 2008.
19. **Silver Medal,** ' Cellulose based novel biocomposite'. International Invention Innovation Industrial Design and Technology Exhibition (I-TEX 2007), 2007.
20. **Bronze Medal,** ' Palm Oil Based Fatty Acid Impregnated In Gypsum Wallboard', International Invention Innovation Industrial Design and Technology Exhibition (I-TEX 2004), Kuala Lumpur, 2004.
21. **IEM Presidential Award of Excellence – Best Improved Technical Division-Chemical Engineering,** Institution of Engineers Malaysia (IEM), 2005.

iii) **UPM Level**

1. **Anugerah Khas Pensyarah Tahun 2016 (Kategori Professor).** Fakulti Kejuruteraan. Universiti Putra Malaysia, 2017.

2. **Anugerah Kecermelangan Dalam Pengajaran 2016.** Fakulti Kejuruteraan. Universiti Putra Malaysia, 2017.
3. **Anugerah Penyelidikan Universiti 2016** (Kategori Individu: Kecermelangan dalam Penerbitan). Universiti Putra Malaysia, 2016.
4. **Gold Medal.** Different Types of Carbon Nanomaterials and Graphene as Adsorbent Phase in Solid Phase Extraction Methods. PRPi 2016, Universiti Putra Malaysia, 2016.
5. **Gold Medal.** Natural Adhesives from Acacia Mangium Bark Extracts Co-Polymerised with Phenol-Formaldehyde for Bonding Biocomposites. PRPi 2016, Universiti Putra Malaysia, 2016.
6. **Bronze Medal.** Quartenized Kenaf Fiber as Adsorbent Material. PRPi 2016, Universiti Putra Malaysia, 2016.
7. **Anugerah Penyelidik Cemerlang Tahun 2012** (Category Profesor), Fakulti Kejuruteraan, Universiti Putra Malaysia, 2012.
8. **Outstanding Performance and Services Award** (Professional and Management category), INTROP, UPM, 2009.
9. **Outstanding Performance and Services Award** (Professional and Management category), INTROP, UPM, 2008.
10. **Silver Medal.** Modeling biodegradation and kinetics of Glyphosate by artificial neural network. UPM Research and Innovation and Competition, 2012.
11. **Bronze Medal.** Anti-inflammatory Activity of the Major Compound from Methanol Extract of Phaleria macrocarpa Leaves. UPM Research and Innovation and Competition, 2012.
12. **Bronze Metal.** Removal of Heavy Metals from Steel Making Waste Water by Using Electric Arc Furnace Slag. UPM Research and Innovation and Competition, 2012.
13. **Bronze Medal.** Method and Composition for Masking Mesoporous carbon Coated Monolith. UPM Research and Innovation and Competition, 2012.
14. **Silver Metal.** Building Products Having Phase Change Materials. UPM Research and Innovation and Competition, 2011.
15. **Bronze Metal.** Modified Biomass Chemisorbent for Dyes Removal. UPM Research and Innovation and Competition, 2011.

16. **Gold Metal.** Water Resistance Paper Made from Malaysian Cultivated Kenaf Whole Stem Fibres. UPM Research and Innovation and Competition, 2011.
17. **Bronze Metal.** Writing and Printing Grade Paper from Kenaf-EFB Mixed Fibers. UPM Research and Innovation and Competition, 2011.
18. **Silver Metal.** Mesoporous Polymer Derived Activated Carbon Monolith. UPM Research and Innovation and Competition, 2011.
19. **Gold Metal.** Development of Parallel-Functioned Multiple Crystallizer in Uses of Habit and Morphology Study on the Palm-based 9,10-Dihydroxystearic Acid (DHSA) Crystals. UPM Research and Innovation and Competition, 2009.
20. **Gold Metal.** Polyolefin films modified with crude palm oil (CPO) for improved mechanical properties. UPM Research and Innovation and Competition, 2009.
21. **Silver Metal.** MALDI TOF Mass Spectrometry of Acacia Mangium Polyflavonoid Tannins. UPM Research and Innovation and Competition, 2009.
22. **Bronze Metal.** Characterization and Preparation of Biocomposite from Kenaf Cellulose and Low Density Polyethylene for Food Packaging Application. UPM Research and Innovation and Competition, 2009.
23. **Silver Medal,** 'Treatment of Oilfield Produced water with Combined Biological/Membrane Processes'. UPM Research and Innovation and Competition, 2007.
24. **Silver Medal.** Method of Extracting Tannin from Bark of Acacia Mangium Trees for Biobased Adhesive. UPM Research and Innovation and Competition, 2007.
25. **Bronze Medal.** Extraction and Freeze-Drying of *Piper betel L.* Standardized Extract as Antioxidant. UPM Research and Innovation and Competition, 2007.
26. **Bronze Medal.** Rigid Ceramic Filter for High Temperature Gas Cleaning Industrial Applications. UPM Research and Innovation and Competition, 2007.
27. **Bronze Medal.** Cow Dung: A Potential Biofiller for Biocomposite Applications. UPM Research and Innovation and Competition, 2007.
28. **Gold Medal.** 'Bio-Cellulose Filled Biocomposite Thermoplastic', UPM Research and Innovation and Competition, 2006.

29. **Bronze Medal.** Synthesized and Modelling of Smart Conjugate Poly (NIPAM) Polymer by Chemical Process for Affinity Precipitation of Valuable Enzyme. UPM Research and Innovation and Competition, 2006.
30. **Bronze Medal.** Modelling and the Application of a Synthesized Poly (NIPAM) by Electron Beam Irradiation for Affinity Precipitation of Enzyme. Research Exhibition of Faculty of Engineering, UPM, 2006.
31. **Excellent Lectureship Award,** Faculty of Engineering, UPM, **2001.**
32. **Excellent Services Award,** UPM, **2003.**
33. **Excellent Services Award,** UPM, **2004.**
34. **Excellent Services Award,** UPM, **2005.**
35. **Excellent Services Award,** UPM, **2006.**
36. **Excellent Services Award,** UPM, **2007.**
37. **Excellent Services Award,** UPM, **2008.**
38. **Excellent Lectureship Award,** Faculty of Engineering, **2008.**
39. **Excellent Services Award,** INTROP, UPM, **2008.**
40. **Excellent Services Award,** UPM, **2009.**
41. **Excellent Services Award,** UPM, **2010.**
42. **Excellent Services Award,** UPM, **2011.**
43. **Excellent Services Award,** UPM, **2012.**
44. **Excellent Services Award,** UPM, **2013.**
45. **Excellent Services Award,** UPM, **2014.**
46. **Excellent Service Award,** UPM, **2016.**

47. **Excellent Service Award, UPM, 2017.**

48. **Excellent Service Award, UPM, 2018.**

49. **Excellent Service Award, UPM, 2019.**

Supervision of Students (2003-current)

A) PhD Students (Main Supervisor)

1. Pin Kar Yong. Extraction and Production of Piper Betle L. **(Completed by 2009).**
2. Fatemeh Mirjalili. Charaterization and Anlysis of Nonoclay-PP Nanocomposite. **(Completed by 2010).**
3. Mohsen Nourouzi Mobareke. Removal of Pesticides Using Combined Biological and Pshical Hybrid System **(Completed by 2011).**
4. Beh Chin Lai. Utilization of Steel Industry Slag for Removal of Copper and Manganese. **(Completed by 2011).**
5. Sara Yasina Binti Yusuf. Study on the Size Segregated Atmospheric Particles In A Mixed Commercial-Residential-Industrial Airshed at Klang Valley. **(Completed by 2012).**
6. Zawani Binti Zainuddin. Treatment of Bast-Kenaf Fibre on Bio-Retting Wastewater Using Membrane Bioreactor **(Completed by 2014).**
7. Yeoh Beng Hoong. Development of Structural Grade Plywood by Utilization of Oil Palm Stem. **(Completed by 2014).**
8. Nor Fariza Binti Ismail. Extraction and Production of Mahkota Dewa Leaves. **(Completed by 2015).**
9. Rafeah Binti Wahi. Chemical Modification of Sago Waste for Removal of Residue Oil from Palm Oil Mill Effluent. **(Completed by 2015).**
10. Husna Ahamad Tajuddin. Treatment of POME Using Advance Treatment Method **(Completed by 2016).**
11. Chua Bee Lin. Extraction and Production of Safed Musli Root. **(Completed by 2016).**
12. Sariah Binti Saalah. Production Water Based Coating Using Jatropha Oil Based Polyurethane. **(Completed by 2016).**
13. Mohd Azwan Ahmad. Investigation on Effect of Various Pre-Treatment on Membrane Behavior for Palm Oil Mill Effluent (POME). **(Completed by 2017).**
14. Rabiatuladawiyah Binti Danial. Electrocoagulation of Glyphosate from Aqueous Solutions. **(Completed by 2017).**
15. Emiliana Rose BintiJusoh @ Taib. Production Coating Materials UsingJatropha Oil Based Polyurethane Synthesis. **(Completed by 2017).**
16. Intidhar Jabir Idan Al-Tharwani. Removal of Single and Binary System of Reactive Dyes Using Qurtenized Kenaf Fibres from Aqua System. **(Completed by 2017).**

17. Syeed Saifulazry Osman Al-Edrus. Isolation and Modification of Kenaf (*Hisbiscus Cannabinus L*) Nanocellulose for Green Bionanocomposite Product. **(Completed by 2018)**.
18. Ayu Haslija Bt Abu Bakar. Adsorption of fluoride Using Biosorbent. **(Completed by 2018)**.
19. Siti Hasnah Binti Kamarudin. Development of Biodegradable Biocomposite. **(Completed by 2018)**.
20. Saba Rashidi. Synthesis of CNT nanofluid and its stabilization study. **(Completed by 2019)**.
21. Adeyi Abel Adekanmi. Development of Thiourea Modified Poly(Acrylonitrile-Co-Acrylic Acid) for Cationic Dyes Adsorption from Single and Binary Solution. **(Completed by 2019)**.
22. Chen Jia Tian. Technical and Economic Assessment of Producing Sustainable Bio Jet Fuel in Malaysia. An Integrated Energy Approach. **(Completed by 2020)**.
23. Chai Chee Keong. Preparation, Characterization and Properties of Radiation Vulcanized Epoxidized Natural Rubber Latex. (Expected to be completed by 2020).
22. Tan Yen Chen. Post Environmental Impact Assessment: Monitoring and Model Prediction. (Expected to be completed by 2021).
23. Suhaini Mamat. Development of Jatropha Oil Based Polyurethane / Nanoalumina as Scratch Resistance Coating Materials. (Expected to be completed by 2021).
24. Mohamad Abdullah. Removal of Heavy Metals in Aqua System by Using Poly(Acrylonitrile-Co-Acrylic Acid) Polymers. (Expected to be completed by 2020).
25. Siti Zalina Binti Yaacob. Rodenticidal Potential of *Gliricidia Sepium* Leaf Extract for Rat Control in Paddy Field Areas. (Expected to be completed by 2020).
26. Suhanna Natalya Binti Mohd Suhaimy. Utilization of Steel Industry Slag for Removal of Fluoride. (Expected to be completed by 2021).
27. Norsuhaili binti Kamairudin. Synthesis and Characterization of Palm-Based Alkanolamide Polyols from Palm Oil Derivatives for Polyurethane Products. (Expected to be completed by 2021).
30. Nor Halaliza binti Alias. The Potential of Modified Kenaf in the Oil Removal of Palm Oil Mill Effluent (POME). (Expected to be completed by 2021).
31. Nurul Huda binti Mudri. Autonomous Extrinsic Self-Healing Coating Based on Jatropha Polyurethane Acrylate. (Expected to be completed by 2022).
32. Norliza binti Abdul Latiff. Nutrient Density and Phytochemicals: A Study Case on *Oenanthe Javanica*, a Malaysian Famous Salad (Ulam). (Expected to be completed by 2022).
33. Aina Fathiah binti Zuhaidi. Adsorption of Antibiotic Nalidixic Acid on Grafted Polyethylene. (Expected to be completed by 2022).
34. Almohamedabas Shihab Ezzuldin M Saber. Synthesis and Characterization of Polymeric Adsorbents for the Removal of 4-nitrophenol from Aqueous Solution. (Expected to be completed by 2022).
35. Shahril Bin Mohamad. Synthesis of Bio-Nanocrystal Cellulose (BNCC) from Bacterial Cellulose Cultured Using Oil Palm Frond (OPF) Juice. Expected to be completed by 2022).

B) Master Students by Research (Main Supervisor)

1. Jolius Gimbon. Numerical simulation of cyclone design, efficiency, and pressure drop. **(Completed in 2004).**
 2. Rozana Devi. Characteristic of Eutectic Mixtures of Fatty Acids as Phase Change Materials (PCM). **(Completed in 2005).**
 3. Jumasiah Arsyad. Adsorption of Acid and Basic Dyes from Aqueous Solution onto Palm Kernel Shell Based Activated Carbon. **(Completed in 2005).**
 4. Sumaiya Zainal Abidin @Murad. Crystallization of Palm Based Dihydroxystearic Acid (DHSA) **(Completed in 2006).**
 5. Min Min Aung. Synthesis and Characteristics of Biodegradability and Composibility of Polymeric in Oil Palm. **(Completed in 2006).**
 6. Gregory Koay Feng Ling. Production of Palm Dihydroxystearic Acid (DHSA) Using Isopropanol as Solvent **(Completed in 2007).**
 7. Moshen Nourouzi Mobareke. Adsorption of Reactive Dyes Using Palm Kernel Shell – Based Activated Carbon. **(Completed in 2008).**
 8. Shariza Jamek. Cloning and Characterization of Oil Body Proteins (Oleosins) from the Oil Palm (*Elaeis guineensis* Jacq). **(Completed in 2008).**
 9. Anis Sakinah binti Zainal Abidin. Characterization of Irradiation of Ethylene Vinyl Acetate/Tires Dust (NR based) blend. **(Completed in 2009).**
 10. Samaneh Keshani. Rheological Study on Pumelo Juice. **(Completed in 2009).**
 11. Jenney Ngu Lim Song. Characterization and Analysis of Nanoalumina/LDPE Nanocomposites. **(Completed in 2010).**
 12. Nur Fatimah Abu Bakar. Characterization, Morphological and Thermal Analysis of Grafted Kenf Fibre Reinforced PVC-EVA blend. **(Completed in 2011).**
 13. Nurul Akmil Binti Mustafa. Effect of Coupling Agent on the Production of Nanoalumina /HA/ HDPE Nanocomposites. **(Completed in 2011).**
 14. Tee Lee Hong. Drying and Characterization of Piper Betle L. Powder. **(Completed by 2012).**
 15. Hazwani Husna Binti Abdullah. Preparation of Water-Resistant Paper from Kenaf. **(Completed by 2012).**
- Mohd Farhan B Abdul Razak. Study on Solvent Extraction of Misai Kucing Extracts. **(Completed by 2012).**
17. Mohammed Yusuf. Utilization of Steel Industry Slag for Removal of Nickel. **(Completed by 2012).**
 18. Noor Hadzuin Binti Nik Hadzir. Extraction and Production of Piper Betle L via Supercritical Fluid Extraction Method. **(Completed by 2013).**
 19. Nurul Izzati Binti Mohd Zawawi. Water Resistant Paper from Kenaf Fibre Using Impregnation Method. **(Completed by 2013).**
 20. Ahmad Syafiq B. Ahmad Hazmi. The Potential of Jatropha Oil in Polyurethane Synthesis as A Polymer Electrolyte Material. (Completed by 2013).

21. Puteri Farah Wahida Binti Mgt Ahmad. Advanced Drying of Piper Betle L. Leaves. **(Completed by 2013).**
22. Mohd Azrie Bin Awang. Study on Solvent Extraction of Kacip Fatimah Extracts. **(Completed by 2014).**
23. Nur Amirah Binti Mohd Zahri. Removal of Heavy Metal by Polyacrylonitrile-Acrylic Acid Amidoxime. **(Completed by 2015).**
24. Nur Salimah Binti Mohd Rapeia. Removal of Zn and Cd by Polyacrylonitrile-Acrylic Acid Hydrazine. **(Completed by 2016).**
25. Maytham Kadhim Obaid. Adsorption of Acid Dye Using Qurtenized Kenaf Fibres. **(Completed by 2017).**
26. Norshafini Binti Mohd Zain. Improving Compatibility of Waste Nitrile Rubber (w-NBR) / Ethylene Vinyl Acetate Blends by Electron Beam (EB) Radiation. **(Completed by 2018).**
27. Lau Kia Li. Performance of Amidoxime-Modified Poly(Acrylonitrile-Co-Acrylic Acid) for the Removal of Boron in Aqueous Solution. **(Completed by 2019).**
28. Nur Amirah Asifa Raisha binti Zahari. Drying and Extraction of Plectranthus Amboinicus (Lour) Spreng Leaves. **(Completed by 2020).**
29. Nur Haryani binti Zabaruddin. The Synthesis of Biodiesel in Continuous Flow Packed with Ion Exchange Kenaf Fiber. **(Completed by 2020).**
30. Zulina Bte Abd Maurad. Powder Behavior of Methyl Ester Sulphonates Generated by High Shear Mixer. (Expected to be completed by 2020).
31. Mohamad Ridzuan bin Amri. Synthesis of Polyol from Plant Oil for Water Based Polyurethane Application: Characterization, Thermal, Rheological Properties and Storage Stability. (Expected to be completed by 2021).

C) PhD Students (Co- Supervisor)

1. Muatuz Ali Atieh. Synthesis and Characterization of Carbon Nanofibers and Nanotubes Using Floating Catalyst Chemical Vapor Deposition (FC-CVD). **(Completed in 2005).**
2. Syaubari. Synthesis and Characterization of an Advanced Polymer for use as a Barrier Packaging. **(Completed in 2007).**
3. Ma'an Fahmi Rashid Al-Khatib. Methane Gas Adsorption Storage on Carbonaceous Materials **(Completed in 2007).**
4. Adel Mohamed Ahmed. Advanced Chemical Oxidation Treatment for Textile Wastewater. **(Completed in 2007).**
5. BehjatTajeddin. Preparation and Characterization of Biocomposites Based on Cellulose for Food Packaging. **(Completed in 2009).**
6. Darmadi. Multicomponent adsorption modelling using Maxwell-Steven equation. (Completed in 2009).
7. Yeah Chiou Moi. Process Modelling of the Production and Purification of Concentrated Diacylglycerol Oil. **(Completed in 2011).**

8. Alireza Pendashteh. Treatment of Oilfield Produced Water with Combined Biological/Membrane Processes. **(Completed in 2011)**.
9. Muhammad. Adsorption Beta Carotene by carbon Coated Monolith. **(Completed by 2011)**.
10. Norzilah Binti Abdul Halif. Synthesis of Carbon Nanofibre Using CVD Technique for Hydrogen Storage Application. **(Completed by 2011)**.
11. Maryam Joukar. Production, Characterization and Migration Study of Melt Blended and Layer Deposited Polyethylene Silver Nanocomposite as an Active Food Packaging. **(Completed by 2012)**.
12. Majid Dehghan Nayyeri. Evaluation the Effect of Temperature on the Fibre Properties of Kenaf. **(Completed by 2013)**.
13. Lai Ying Ling. Hybrid Algorithm for Cyclic Steady State Processes. **(Completed by 2013)**.
14. Chin Kit Ling. Production of Biomass Solid for Green Energy Power Plant. **(Completed by 2014)**.
15. Samaneh Karimimazraehshahi. Characterization of Nanocomposites Based on Plasticized Starch and Kenaf Bast Nanofibers. **(Completed by 2014)**.
16. Cheah Poh Meng. Biochar Reinforcement and Decomposition in Tropical Peat and Mineral Soil. **(Completed by 2014)**.
17. Chai Ee Wen. Fast Composting of Lignocellulosic Materials into Organic fertilizer. **(Completed by 2015)**.
18. Nurul Hanira Binti Mat Lazim. Assessment on the Release of Ammonia (NH₃) from a Leachate Treatment Plant. **(Completed by 2018)**.
19. Reza Zolfaghari. Utilization of Cationic Surfactants for Demulsification of Produced Water from Alkali- Surfactant-Polymer Flooding Process. **(Completed by 2018)**.
20. Wong Lih Jiun. Process of Starch, Xylose and Glucose Mixtures Extracted from Oil Palm Trunk for Bioethanol. **(Completed by 2019)**.
21. Lee Siong Hoong. Horizontal Separator Performance Study. **(Completed by 2019)**.
22. Lee Sin Yee. Supercritical Anti-Solvent Microencapsulation of Hemptedu Bumi (A. Paniculata) for Potential Food Ingredient Development. **(Completed by 2019)**.
23. Go Wen Ze. Biological Control Toward White Root Rot Disease in Rubber Tree. **(Completed by 2020)**.
24. Chow May Jinn. Development of Empty Fruit Bunch Particleboard Comply with Japanese Industrial Standard. **(Completed by 2020)**.
25. Hanizah binti Arifin. Palm Oil Mill Effluent (POME) Treatment Using the Forward Osmosis (FO) Process. (Expected to be completed by 2020).
26. Wan Azha bin Wan Mustapha. Development of an Efficient Biodegradation Method for Rice Husk Composting. (Expected to be completed by 2020).
27. Peng Shih Hao. Composting of Empty Fruit Bunches (EFB) Using Indigenous Decomposing Microorganism. (Expected to be completed by 2020).
28. Marwah binti Rayung. Synthesis of Jatropha Oil-Based Polyurethane Acrylate for Dye Sensitized Solar Cell Application. (Expected to be completed by 2020).

29. Siti Noor Kamilah bt Haji Mohamad. Preparation and characterization of chitosan dispersed in polylactic acid grafting with graphene oxide (Expected to be completed by 2020).
30. Hanisah Binti Mohamad Nasir. Removal of 17 α -Ethinylestradiol (Ee₂) as Selected Endocrine Disrupting Compounds (EDCS) from Aqueous Solution Employing of Magnetic Nanoparticles (MNPS) Incorporated with Dead Calcareous Skeleton. (Expected to be completed by 2020).
31. Omale Sunday Ogakwu. Carbon Dioxide Sequestration by Direct Mineral Carbonation: Using Malaysia Electric Arc Furnace Slags. (Expected to be completed by 2020).
32. Lim Jin Wei. Production of Metal Chlorides by Using Electrical Arc Furnace Steel Slag Waste from Steel Mill. (Expected to be completed by 2020).
33. Mohd Fadhzir Bin Ahmad Kamaruddin. High Temperature Electrolysis of Copper Chloride Using Hybrid Proton Exchange Membrane (PEM) for Hydrogen Production. (Expected to be completed by 2020).
34. Masrat Rasheed. Development Of Biodegradable Food Packaging Film From Natural Materials. (Expected to be completed by 2020).
35. Chee Siew Sand. Development and Characterization of Kenaf/Bamboo Fibres Reinforced Epoxy Geopolymer Hybrid Composites for Building Material Applications. (Expected to be completed by 2020).
36. Nurhanisah binti Othman. L-Ascorbic Acid and Thymoquinone as Biomolecular Compounds in Chitosan Nanoparticles for Transdermal Delivery Route. (Expected to be completed by 2020).

D) Master Students by Research (Co-Supervisor)

1. Mohanad M.A.A.A. El-Harbawi. Stability of Thin Liquid Film under Effect of Apolar and Electrostatic Force on a Horizontal Plane. **(Completed in 2002)**.
2. Abdul Hamid N. Elghemi. Kinetic Studies on The Thermal Degradation Studies of Poly Vinyl Pyrrolidone (PVP). **(Completed in 2002)**.
3. Khaled M.M.A Mezghugi. Arsenic removal from water using natural coagulant (Moringa-Oliefera) **(Completed in 2003)**.
4. Tan Yee Wan. Simulation of the Onset Convection of an Incipient Fluidised Bed. **(Completed in 2004)**.
5. Wong Teck Ngim. Modelling of adsorption of dyes from aqueous solution by activated carbon. **(Completed in 2004)**.
6. Danna B.M.A. Synthesis and Characterisation of Carbon Nano-Structures for Methane Storage by Adsorption. **(Completed in 2004)**.
7. Abdulhamid Belal M. Danna. Characterisation and Adsorption Studies of Carbon Nanotube/Nanofibers for Methane Storage. **(Completed in 2004)**.
8. Lai Yin Ling. The modelling and simulation of non-isothermal heterogeneous pressure swing adsorber-reactor. **(Completed in 2004)**.
9. Soo Ching Yee. Dynamics and Convergence Accelerations of Rapid Pressure Swing Adsorption (RPSA). (Completed in 2005).
10. Wong Lee Ing. The Dispersion of Particulate Matter from Palm Oil Refinery Mill. **(Completed in 2006)**.

11. Nur Sulihatimarsyila Abd. Wafti. The Regeneration of Spent Bleaching Earth. **(Completed in 2006)**.
12. Siti ZubaidahBintiSulaiman. Design of Scale up Production Unit for Palm Oil-Based Biodegradable Lubricant. **(Completed in 2006)**.
13. Anita Abu Bakar. Study on the Effect of –OH Group on the Lubricant Properties of the Palm Based Synthetics Esters and Develop the Synthetics Method. (Completed in 2006).
14. Azhari. Synthesize of Low Pour Point Palm Diesel. **(Completed in 2006)**.
15. Muhammad. Equilibrium and Kinetics of Cadmium and Zinc Adsorption on Activated Carbon from Palm Kernel Shell. **(Completed in 2006)**.
16. Amnorzahira Amir. Dispersion Studies of PM in PJ. **(Completed in 2007)**.
17. Mohd Khalid. Study of Palm Fibre Based Cellulose Filled Polymer as Packaging Materials. **(Completed in 2007)**.
18. Ngeow Yen Wan. Simulation of Onset Convection by Vertical Heated Plate on Newtonian and Non- Newtonian Fluids. **(Completed in 2007)**.
19. Cheong Yoon Kwan. Numerical Simulation of NO and CO Abatement in Catalytic Converter of CNG Engine. **(Completed in 2007)**.
20. Seyed Mohammad Dara Ghasimi. Anaerobic Treatment of Leachate from Transfer Station. **(Completed in 2008)**.
21. HairaniTahir. Carbon Nanotubes, Carbon Fibers and Carbon Nanofibers for Natural Rubber Applications. **(Completed in 2009)**.
22. Giwa Solomon Olanrewaju. Comparison of Melon (Egusi) Oil and Palm Oil Diesel as Transportation Fuels. **(Completed in 2010)**.
23. Wu Ping. Life Cycle Assessment of Palm Derived Biomass Energy in Malaysia. **(Completed by 2010)**.
24. Yeoh Beng Hoong. Isolation and Characterization of Tannin from Acacia Mangium Tree Bark Wood Adhesive. **(Completed by 2010)**.
25. Setareh Monshi Toussi. Synthesis and Optimization of carbon Nanotubes with Chemical Vapour Deposition (CVD) Technique. **(Completed by 2010)**.
26. Maryam Rahmati Zadeh. Adsorption Potential of Agricultural Waste to Remove Heavy Metal Frim Leachate. **(Completed by 2010)**.
27. Emilia Rose Jusoh. Polyolefin Films Modified with Crude Palm Oil (CPO) for Improved Properties. **(Completed by 2012)**.
28. Mohamad Rasool Malekbala. Synthesis of Mesoporous Carbon Coated Monolith Using Organic-Organic Self Assembly Method. **(Completed by 2012)**.
29. Muhammed Ngabura. Mesoporous activated carbon coated monolith for adsorption application. (Completed by 2012).
30. Ng Sim Hong. Pretreatment of Kenaf (*Hibiscus cannabinus*L.) Core Fibre for Fermentable Sugar and Lactic Acid Production. **(Completed by 2012)**.

31. Rafidah Binti Dahlan. Properties of Paper from Oil Palm Palm Empty Fruit Bunch and Kenaf for Writing and Printing Paper. **(Completed by 2012)**.
32. Ehsan Marahel. Capture of CO₂ from Flue Gas by Activated Carbon Coated on Monolith. **(Completed by 2013)**.
33. How Cai Kian. Adsorption Beta Carotene onto Mesoporous Carbon Coated with Monolith Synthesized by Using Organic Self Assembly Method by Surfactant F-127. (Completed by 2013).
34. Willie Cheah. Removal of Methyl Orange by Using Activated Carbon Coated Monolith. **(Completed by 2013)**.
35. Teoh Yi Peng. Equilibrium and kinetic studies on removal of phenol, 4-chlorophenol, 2, 4-dichlorophenol by using activated carbon coated monolith. **(Completed by 2013)**.
36. Iman Bayesti. Capture of CO₂ from Flue Gas Using Modified Activated Carbon. **(Completed by 2013)**.
37. Muhamad Roody Bin Ramli. Specialty Oil Fractions from Palm and Pal, Kernel Oil Products. **(Completed by 2013)**.
38. Nima Zhodi. Functionalization of Multiwall Carbon Nanotube (MWCNTs) and Its Application in Wastewater as Adsorption of Inorganic Pollutants Specifically Heavy Metals. (Completed by 2013).
39. Nur Dina Shazani MohdAzam. Quantification of Urban Trees Species as an Airborne Particulates Filter. **(Completed by 2013)**.
40. Koay Yin Shin. Adsorption of Reactive Dyes from Aqueous Solutions by Quaternized Palm Kernel Shell. **(Completed by 2013)**.
41. Tay Pei Wen. Chemical Striping as a Pretreatment Method for Dilute Acid Hydrolysis of Xylose and Glucose in Oil Palm Trunk. **(Completed by 2013)**.
42. Eng Hooi Kyin. Biofuel from Wood Liquefaction Process. **(Completed by 2014)**.
43. Ali Reza Golestan Bagh. Adsorption of Acid Green 25 Dye Solution Using Modified and Unmodified Kenaf Fiber. **(Completed by 2015)**.
44. Nur 'Izzah Bt Ezhar. Treatment of Oilfield Wastewater Using Microorganisms Isolated from Budu-Based Product. **(Completed by 2015)**.
45. Wong Sin Yee. Termites for Bio-Ethanol Production. **(Completed by 2016)**.
46. Mostafa Yusefi. Development of New Binders System for Ceramic Component. **(Completed by 2016)**.
47. Dayang Nur Sakinah binti Musa. Fuel Characterization and Flammability of Repeated Burnt Peat Swamp Forest. **(Completed by 2016)**.
48. Muhammad Mirza bin Ariffin. Synthesis and Characterization of Jatropha Oil- Based Polyurethane Acrylate Anti-Corrosive Coating Using UV Irradiation Technique. **(Completed by 2017)**.
49. Yoong Jun Hao. Study of Specific Heat Capacity of Palm Oil Products. **(Completed by 2018)**.
50. Farhana Syakirah binti Ismail. Synthesis and Chemical Modification of Acrylonitrile Based Porous Polymer as a Potential Adsorbent to Capture Polar Analytes. **(Completed by 2019)**.

51. Murtada Mohammed Abdulredha. Extraction Brine from Crude Oil by Using Propargyl Alcohol & Triethylene Glycol. **(Completed by 2019)**.
52. Asilah binti Ahmad. Synthesis of Green Polymer from Vegetable Oil and Functionalized Acetylene Black Anticorrosion Coating. (Expected to be completed by 2020).
53. Nur Nida Syamimi Binti Subri. Synthesis of Poly(Acrylonitrile (An)-Co-Diviylbenze (DVb)- Co-Vinylbenzylchloride (VBC) Hypercrosslinked Terpolymer and its Preliminary Analysis to Cature Phammaceuticals. (Expected to be completed by 2020).

E) PhD External Co-Supervisory Committees from Other Universities

1. Samaneh Keshani (P52675), Scale-up of Spray Dryers using CFD Simulation, Universiti Kebangsaan Malaysia. **(Completed by 2013)**.
2. Suganti Ramarad. Improving the properties of reclaimed waste tyre rubber by blending with poly(ethylene-co-vinyl acetate) and electron beam irradiation, Nottingham University Malaysian Campus. **(Completed by 2015)**.
3. Mohd Azrie bin Awang. Optimization on the Fractionation and standardized of quercetin from melastoma for anti-diabetic. Universiti Teknologi Malaysia. **(Completed by 2018)**.
4. Nurul Akmil Mustafa. Fabrication and Psycho-Mechanical Analysis of Conductive HDPE/PANI Nanocomposite Reinforced with Treated Nano Alumina Particle. Univesiti Teknikal Malaysia Melaka (UTeM). **(Complete by 2018)**.
5. Nurul Hidayah. Effect of Magnetite Fe₃O₄ Nanoparticles Immobilization onto the Zeolite Frameworks for Removal of Ammonium, Heavy Metals and Dyes from Aqueous Solutions. Malaysia-Japan International Institute of Technology (MJIT), Universiti Teknologi Malaysia. **(Complete by 2019)**.

F) Master External Co-Supervisory Committees from Other Universities

1. Mah Hong Yew. Novel of UV-LED Curable Pressure Sensitive Adhesive Containing Carbon Nanotube for Cover Tape Application. Universiti Teknologi Malaysia. (Expected to complete by 2019).

G) Invited Keynote Speaker / Talk / Panel / Lectures

1. **Invited to official launce and Opening Speech** of the Open Ceremony of Academic Achievement Awards SMK PUTRAJAYA PRESINT 8(1), Putrajaya, 7 April 2018.
2. **Invited Speaker.** "From Google Scholar to Most Cited Journal". International Islamic University College Selangor (KUIS). 26 December 2017, Kajang, Selangor.
3. **Invited Speaker.** School of Engineering and Physical Science. Heriot Watt University Malaysia. 25 October 2017.
4. **Invited Speaker** on Research Methodology Workshop. Politeknik Sultan Idris Shah< Sungai Air Tawar, Selangor.14 September 2017.
5. **Invited to official launce and Opening Speech** of the Open Ceremony of 9th Graduation of SMK PUTRAJAYA PRESINT 8(1), Putrajaya, 14 October 2017.

6. **Invited as Judges** in The Materials Lecture Competition 2017 (MLC 2017) Semi-Finals, by Institute of Materials Malaysia (IMM), The Institute of Materials, Minerals and Mining (IOM3), UK and Asia-Pacific University (APU), APU, Kuala Lumpur. 18 April 2017.
7. **Invited Speaker** for “Q1 Journal Writing Workshop”. ITMA, UPM, 23-24 May 2017.
8. **Invited as Panel Judge** for International Invention Innovation Industrial Design and Technology Exhibition (I-TEX), 2015.
9. **Invited Speaker** for Taiwan-Japan Joint Symposium on Particle Technology, Tao-Yuan, Taiwan, 22 September 2014.
10. **Invited as Panel Judge** for International Invention Innovation Industrial Design and Technology Exhibition (I-TEX), 2014.
11. **Invited Speaker** for “**PhD Industry**”, at Cyber Security Sdn Bhd, 26 February 2014.
12. **Invited Speaker** for “**PhD Industry**”, at Institution of Engineers Malaysia (IEM), 7 December 2013.
13. **Invited as Panel Judge** for International Invention Innovation Industrial Design and Technology Exhibition (I-TEX), 2013.
14. **Invited Speaker** for INTROP Scientific Writing Workshop, UPM, 23-24 Oct 2012.
15. **Invited Speaker** for The 2nd International Symposium on Processing and Drying of Foods, Vegetables and Fruits, Nottingham University Malaysian Campus, Semenyih, Selangor, 18-19 June 2012.
16. **Keynote Speaker** in National Symposium of Polymeric Materials (NSPM 2011), Universiti Teknologi Malaysia, 27 December 2011.
17. **Module Speaker and Facilitator** for “Wood Plastic Composite (WPC)” for participants from FIDEC, MITB, 23 - 24 June, 2011.
18. **Guest Speaker** to Sinclair Knight Merz Sdn. Bhd., in conjunction of World Safety and Health Day. 28 April 2010, Mont Kiara, Kuala Lumpur.
19. **Invited Speaker** in Malaysian Institute of Food Technology (MIFT) organized Forum “Melamine in Food: Risk and Safety Issues”, 16 December 2008, Subang Jaya, Selangor.
20. **Invited Speaker** in Seminar on Medicinal and Aromatic Plants 2008, 21-22 October 2008, Kuala Lumpur.
21. **Guest Panelist** in Industrial Panelist Discussion Forum at HVAC Conference 2008, 13-14 May 2008, Hotel Park Royal, Kuala Lumpur.
22. Invited to give the **Keynote lecture** presented at World Congress on Oleochemicals (WCO 2004) in conjunction with Oil and Fats International Congress (OFIC 2004), 29 September-2 October, 2004, Kuala Lumpur. Title: “Myristic and Palmitic Acids as Phase Change Materials”.

23. **Invited Speaker** for IEM Chemical Engineering Technical Division Talk on “Eutectic Mixtures of Myristic-Palmitic Acids as Phase Change Material (PCM) in Building Materials for Energy Saving, 25 Sept 2004.

24. **Invited Speech** on “Chemical Handling and Personal Protection Equipment (PPE)”, INTROP, UPM, 19 March 2008.

25. **Invited Lecture for EOH 3303**-Process Persekitaran dan Perindustrian Program Bachelor Sains (Kesihatan Persekitaran dan Perindustrian)-18 March 2008, FPSK, UPM.

26. **Invited Lecture for EOH 3303**-Process Persekitaran dan Perindustrian Program Bachelor Sains (Kesihatan Persekitaran dan Perindustrian), 3 April 2007, FPSK, UPM.

Scientific / Advisory Committee Members

1. Member of Board of Studies (BOS) for Bachelor of Engineering (Biotechnology Engineering), International Islamic University Malaysia. 2019-2021.
2. External Examiner School of Chemical and Energy Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, 2019-2021.
3. Advisory Committee. 5th International Conference of Biotechnology Engineering 2016 (ICBioE 2018), IIUM, 19-20 September 2018.
4. Organizing Committee. Symposium of Advanced Materials and Nanotechnology (SAMN 2018), ITMA, UPM, 2018.
5. Program Committee Members. The International Conference on Sustainable Energy and Environment Sensing, 2– 3 April 2018, Cambridge City, United Kingdom.
6. Scientific Committee. The 4th International Conference of Chemical Engineering and Industrial Biotechnology 2018 (ICCEIB 2018). Kuala Lumpur, Malaysia. 1-2 August 2018.
7. Working Committee. Improved National Action Plan for Haze. Department of Environment. Ministry of Natural Resources & Environment, Malaysia. 2017.
8. Session Chairman. Wood and Biofiber International Conference, 2017 (WOBIC 2017), Kuala Lumpur, 21st to 23rd November 2017.
9. Technical Committee. 2nd International Conference on Innovative Engineering Materials (ICIEM 2017), Philadelphia, USA, 21-23 October 2017.
10. Scientific Committee for Wood and Biofiber International Conference 2017 (WOBIC2017). Putrajaya, Malaysia. 21-13 November 2017.

11. Scientific Committee. The 3rd International Conference of Chemical Engineering and Industrial Biotechnology 2016 (ICCEIB 2016). Malacca, Malaysia. 28-30 November 2016.
12. Advisory Committee for 4th International Conference of Biotechnology Engineering 2016 (ICBioE 2016), IIUM, 25-27 July 2016.
13. Symposium International Advisory Panel. International Symposium on Coating and Corrosion. Institute of Materials, Malaysia. 16-19 May 2016.
14. Scientific Committee. 29th Symposium of Malaysia Chemical Engineers (SOMChE 2016), Curtin University, Miri, Sarawak, 1-3 December 2016.
15. Industrial Advisory Panel for Master Program of Safety, Health and Environment, Faculty of Engineering, University of Malaya, 2015.
16. High Impact Research (HIR) Icon to the University of Malaya, 2015.
17. Committee Member of Processing Technology Cluster under NKEA Agricultural Subsector Herb EPP#1, Ministry of Agriculture (MOA). 2015-16.
18. Fellow. Centre of Excellence Industrial Biotechnology (ICoE), Universiti Malaysia Pahang, 2014-2015.
19. Appointed by Malaysian Timber Industrial Board (MTIB) as Technical Committee for MTIB Glulam Gallery Composite Floor Project, Johor Bahru, 2012-2013.
20. Technical Committee for 26th Symposium of Malaysian Chemical Engineers (SOMChE-2012) In Conjunction with 4th International Conference on Chemical and Bioprocess Engineering (ICCBPE-2012), Kota Kinabalu, 23-26 November, 2012.
21. Member of INTROP-UNIDO Kenaf Technology Development Project. Lead member in geotextile production, 2011- 2013.
22. Organizing Committee (Technical) of 'Symposium on Processing and Drying of Foods, Vegetables and Fruits', 11-12 April 2011, Kuala Lumpur.
23. Organizing Committee (Technical) of 'International Conference on Kenaf and Allied Fibre 2009 (ICKAF 2009), 1-3 December 2009, Kuala Lumpur.
24. Host Supervisor of Fulbright US Student Research for Mr. Salem Ghandour from University of Michigan, Ann Arbor, MI., August 2008- April 2009. International.
25. Technical Advisor of National Chemical Engineering Symposium 2008, Universiti Putra Malaysia, 2008.
26. Advisory Board Member, Malaysia Journal of Chemical Engineering, 2007-2008.

27. National Committee of Working Group on Health Safety & Environmental Aspects of Nanotechnologies (ISO/TC 229), 2007-current.
28. Deputy Chairman of Technical Committee of the 7th National Oil Palm Trunk Utilization Conference, 2007.
29. Secretary of Organizing Committee of the 7th National Oil Palm Trunk Utilization Conference, 2007.
30. National Committee of Working Group on Health Safety & Environmental Aspects of Nanotechnologies (ISO/TC 229), 2007-current.
31. Organizing Committee of Symposium of Malaysia Chemical Engineers (SOMCHE 2007), UPM.
32. Section Chairman of Symposium of Malaysia Chemical Engineers (SOMCHE 2007), UPM.
33. Organizing Committee of Food and Chemical Engineering Conference in World Engineering Congress 2007.
34. Organizing Committee of 11th Asia Pacific Chemical Engineering Congress (APPChE). 2006.
35. Technical Committee of Malaysian Young Chemical Engineers Symposium 2005 (MYChES 2005), KUKTEM Gambang, Kuantan, 1 - 2 December 2005.
36. Organising Committee for Automotive Technology 2005 (CoAT 2005), 6 - 10 December 2005, Putrajaya.
37. Organizing Committee of 1st National ChemE Car Contest, Institution of Engineers, 2004.
38. Organizing Committee of "Environmental, Health and Safety Legislation Awareness" Workshop together with Perunding Good Earth Sdn Bhd., Faculty of Engineering, UPM, 22 June 2004.
39. Working Committee of "Anugerah Kualiti Perdana Menteri 2004" Workshop, Pan Pacific Hotel, KLIA, 26 - 29 July 2004.
40. Section Chairman, Regional Conference of Young Chemists (RCYS) 2004, Universiti Sains Malaysia, P. Pinang, 13 - 14 April 2004.
41. Organizing Committee of Asia Particle Technology Conference (APT 2003). 2003.

42. Chairman of Professional Workshop “Fluidization”, in conjunction with 3rd Asian Particle Technology Symposium, Penang, 16 December 2003.
43. Section Chairman of 3rd Asian Particle Technology Symposium, Penang 17 - 19 December 2003.
44. Section Chairman of 2nd World Engineering Congress, Kuching, Sarawak, Malaysia, 22nd-25th July 2002.
45. Organizing Committee of Course of Health and Safety at Workplace Universiti Putra Malaysia, 20 - 21 August 2002.
46. Organizing Committee of Nanotechnology and Precision Engineering Workshop, Putrajaya, 8-9, August, 2001.
47. Assistant of the Community Service Project “Mobile Clinic” held at the Gombak orang asli settlement, 7th October 2001 supported by Rotaract Club of Pudu.
48. Conference Assistant in 8th World Filtration Congress, Brighton, United Kingdom, 3-7 April, 2000.
49. Conference Assistant in 3rd World Congress on Particle Technology, Brighton, UK, 21-25 July 1998.
50. Library Chairman, Institution of Engineers, Malaysia (IEM), 2005-2009.
51. Library Committee, Institution of Engineers, Malaysia (IEM), 2009-2010.
52. Publication Committee, Institution of Engineers, Malaysia (IEM), 2005-2009.
53. Representative of Department of Chemical and Environmental Engineering, UPM, in Star Education Fair, 2005, 8 - 9 January 2005.
54. Organising Committee for IEM Postgraduate Students Essay Writing Competition 2004, Universiti Malaya, 21 August 2004.

Consultancy

1. **Industrial-University Attaché (Advisor)** – Sustainable Aviation. Aerospace Malaysia Innovation Centre (AMIC) Research & Technology Division. 2017-18.
2. **Consultant** for CAL Engineering & Industrial Services Sdn Bhd on Oily wastewater treatment and water reuses in oil and gas industry. 2016-18.

3. **Consultant** for “The Provision of Design, Procure, Fabricate, Demobilisation, Modify, Install, Testing & Commissioning and Training of Membrane Performance Test Rig 1 (MPTR 1) For CO₂m Project, PRSB, Bangi”. **Bumi Jiwa Sdn. Bhd.** 2013.
4. **Trainer** of Wood Plastic Composite (WPC) for staff of FIDEC, MITB and Industry. 2011.
5. **Consultant** for “Assessment on Performance of a new Cyclone Designed by Carsten Ranico & Partners (M) Sdn.Bhd Using Computational Fluid Dynamics”. Carsten Ranico & Partners (M) Sdn.Bhd Senawang Industrial Park, Seremban, N.Sembilan, Sepetmber, 2010.
6. **R & D Consultant** for “Bioadsorbent for Wastewater Treatment System”. BeChem Technology Sdn Bhd., 2010-2012.
7. **Consultant** for “Application of Bio-Membrane System in a New Method of Intensive Aquaculture” project, Tekun Jasa Sdn Bhd, **RM 200K**, Jan 2009-Dec 2010.
8. **Consultant** for, Malaysia- Production of Geotextle Using Kenaf, Emas Kiara Industries Bhd, CFC-IJSG-UNIDO project, RM 250K, 2009 - 2011.
9. **Consultant** for “Process Design of a Multi-Purpose Miniplant for Biodiesel Production” project, Solution Engineering Sdn. Bhd, RM 3K, 1 Sept-30 Nov 2009.
10. **Consultant** for “Design Calculation of an Economizer” project, Kawan Dinamik Sdn Bhd, RM 2K, 1Nov 2008 - Dec 2008.
11. **Consultant** for “Process Simulation of Catalytic Dehydrogenation of IPA to Acetone for UTP project. Solution Engineering Sdn Bhd, Puchong, Selangor, RM 5K, 1 Jan 2007 - June 2007.
12. **Consultant** on “Recycle Bleaching Earth System Pilot Plant”, Bumi Technopreneur Sdn Bhd, Kota Bahru, Kelantan, Ogos 2007 - Dec 2008. Total Project Cost RM 250,000.
13. **Technical Consultant** of Pembinaan Prestamaju Sdn Bhd., Seremban, Negeri Sembilan. 2007 - 2010.
14. **Trainer** of “Customized Training for Emergency Response Team” for TM Research and Development, Putra Infoport, TMR&D, 18 - 19 September 2006.