



## CURRICULUM VITAE



### Prof. Dr. Luqman Chuah Abdullah@Chuah Teong Guan

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### 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 School of Chemical and Energy Engineering, 2019-2021

4. Member of Board of Study (BOS) for Bachelor of Biotechnology Engineering, International
5. Islamic University Malaysia (IIUM), 2019-2021.
6. Editorial Board 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**. 1<sup>st</sup> 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: 42 (Scopus); 36 (Google Scholar); 37 (Web of Science Researcher)**
- **Total citations: 7744 (Scopus); 6667 (Google Scholar); 6032 (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 3.060).
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; <https://doi.org/10.3390/molecules26030648> (ISI/Scopus Cited, Impact Factor 3.060).
  3. 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 1.929).
  4. Shihab Ezzuldin M.Saber Almohamedabas, **Luqman Chuah Abdulla**, Siti Nurul Ain Md. Jamil, 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*. Accepted. (ISI/Scopus Cited, Impact Factor 3.119).
  5. Siti Fatahiyah Mohamad, Hasnul Nizam Osman, Muhamad Nurfaiah 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*, accepted. (ISI/Scopus Cited, Impact Factor 1.929).
  6. 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*. Accepted. (ISI/Scopus Cited, Impact Factor 1646).
  7. 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*, accepted. (ISI/Scopus Cited, Impact Factor 3.060).
  8. 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*, accepted. (ISI/Scopus Cited, Impact Factor 4.300).

**Year 2020**

9. Nurul Hidayah Abdullah, Kamyar Shameli, Pooria Moozarm Nia, Mohammad Etesami, Ezzat Chan Abdullah, **Luqman Chuah Abdullah** (2020). Electrocatalytic activity of starch/Fe<sub>3</sub>O<sub>4</sub>/zeolite bionanocomposite for oxygen reduction reaction. *Arabian Journal of Chemistry*, 13(1), 1297-1308. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 4.762).
10. 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).
11. 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).
12. 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).
13. 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).
14. 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).
15. 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).
16. 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).
17. 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).

18. 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).
19. 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).
20. 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).
21. Masrat Rasheed, Mohammad Jawaid, Zoheb Karim and **Luqman Chuah Abdullah** (2020). Morphological, physiochemical and thermal properties of microcrystalline cellulose (MCC) extracted from bamboo fiber. *Molecules*. 25, 2824. (ISI/Scopus Cited, Impact Factor 3.060).
22. 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).
23. 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).
24. 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).
25. 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).

26. 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).
27. 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).
28. 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).
29. 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).
30. 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).
31. 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).
32. 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).
33. 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).

34. Siti Hasnah Kamarudin, **Luqman Chuah Abdullah**, Min Min Aung, Chantara Theyv 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).
35. 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).
36. 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, pages1649–1667. (ISI/SCOPUS Cited Publication, Journal Impact Factor1.536).
37. 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).
38. Siew Sand Chee, Mohammad Jawaid, M.T.H. Sultan, Othman Y. Alothman, **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).
39. 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)
40. 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).
41. 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).
42. 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).

43. N. Abdul Latiff, **L. C. Abdullah**, Pei Ying Ong, A. Amin (2020). Thin-layer drying model of *Cosmos Caudatus*. *Chem. Ind. Chem. Eng. Q.* accepted. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 0.720).
44. 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

45. 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).
46. 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 CO<sub>2</sub> capture. *Materials*, 13, 1775. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.972).
47. Siti Hasnah Kamarudin, **Luqman Chuah Abdullah**, Min Min Aung, Chantara Theyv 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).
48. 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).
49. Marwah Rayung, Min Min Aung, Azizan Ahmad, Mohd Sukor Su'ait, **Luqman Chuah Abdullah**, Siti Nurul Ain Md Jamil (2019). Characteristics of ionically conducting jatropha 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).
50. 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).
51. 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).
52. 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).
53. 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).
54. 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).
55. 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).
56. Nur Haryani Zabaruddin, Nor Hasimah Mohamed, **Luqman Chuah Abdullah**, Masao Tamada, Yuji Ueki, Noriaki Seko, Thomas Shean Yaw Choong (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).
57. 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).
58. Siti Hasnah Kamarudin, Emiliana Rose Jusoh, **Luqman Chuah Abdullah**, Mohd Halim Shah Ismail, Min Min Aung and Chantara They 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).
59. 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).
60. Rabiataladawiyah 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, 5.108).

61. 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).
62. 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).
63. 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).
64. 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).
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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". Chapter2. 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 Appliedsciences, 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	25,000	2018-2020	IPS, UPM



	and powder storage stability on mixing of methyl ester sulfonates under high shear mixer			
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 borivilianum</i> )	96K	2009-2012	MOA Science Fund

14.	Kenaf Downsternam 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 5<sup>th</sup> 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 Acrylate 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 Visible Light Control Properties. 4<sup>th</sup> International, Invention, Innovation and Design (INDES 2015). 2015. UiTM, Malaysia.

9. **Gold Medal.** Sun UV/VIS: A Novel Nanobiocomposite Lacquer with Blocking and Visible Light Control Properties. 4<sup>th</sup> 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.** Waterborne 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 Burian 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. **2<sup>nd</sup> Prize**, Best Poster Award. Optimization of Drying Process of Leaf Extract of Piper betle Sirih, 12<sup>th</sup> 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 Mesopotrous 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 Phsical 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 (HisbiscusCannabinus L) Nanocellulosefor 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 Ezzulidin 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 (*Elaeisguineensis*Jacq). **(Completed in 2008)**.
  9. Anis Sakinah binti ZainalAbidin. 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 Nanocompsites. **(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 Mustaffa. Effect of Coupling Agent on the Production of Nanoalumina /HA/ HDPE Nanocompsites. **(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 MisaiKucing Extracts. **(Completed by 2012)**.
17. Mohammed Yusuf. Utilization of Steel Industry Slag for Removal of Nickel. **(Completed by 2012)**.
  18. Noor Hadzuin Binti NikHadzir. 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 Polyacrylonitrle-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 Quaternized 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. AlirezaPendashteh. 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 (NH<sub>3</sub>) 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 Mohmad Nasir. Removal of 17 $\alpha$ -Ethinylestradiol (Ee<sub>2</sub>) 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 Kamaroddin. 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 Mezghugh. 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 Zubaidah Binti Sulaiman. 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 From 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 cannabinusL.) 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 CO<sub>2</sub> 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 CO<sub>2</sub> 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 Capture 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 Mustaffa. 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 Fe<sub>3</sub>O<sub>4</sub> 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 9<sup>th</sup> 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 2<sup>nd</sup> 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 2016), IIUM, 19-20 September 2016.
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. 21-23 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 (APChE). 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 CO<sub>2</sub>m 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, September, 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 Geotextile 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.