

## CURRICULUM VITAE



A. BUTIR-BUTIR PERIBADI ( <i>Personal Details</i> )			
Nama Penuh ( <i>Full Name</i> )	<b>LUQMAN CHUAH ABDULLAH</b>		Gelaran ( <i>Title</i> ): <b>DR</b>
No. MyKad / No. Pasport ( <i>Mykad No. / Passport No.</i> ) 700919-08-5589	Warganegara ( <i>Citizenship</i> ) Malaysia	Bangsa ( <i>Race</i> ) <i>Cina</i>	Jantina ( <i>Gender</i> ) <i>Lelaki</i>
Jawatan ( <i>Designation</i> )	<b>PROFESSOR</b>	Tarikh Lahir ( <i>Date of Birth</i> )	19 Sept 1970

Alamat Semasa ( <i>Current Address</i> )	Jabatan/Fakulti ( <i>Department/Faculty</i> )	E-mel dan URL ( <i>E-mail Address and URL</i> )
45, Jalan Kajang Raya 10, Taman Kajang Raya, 43000, Sg. Chua, Kajang, Selangor.	Jabatan Kejuruteraan Kimia dan Alam Sekitar Fakulti Kejuruteraan, UPM Serdang, Selangor.  Tel: 03-89472176 Fax: 03-89472180	E-mail: chuah@eng.upm.edu.my  URL:  H/P:012-5178150

B. KELAYAKAN AKADEMIK ( <i>Academic Qualification</i> )			
Nama Sijil / Kelayakan ( <i>Certificate / Qualification obtained</i> )	Nama Sekolah Institusi ( <i>Name of School / Institution</i> )	Tahun ( <i>Year obtained</i> )	Bidang pengkhususan ( <i>Area of Specialization</i> )
SPM	<b>SMJK HUA LIAN</b>	1988	Science
BSc	Universiti Teknologi Malaysia	1994	Chemical Engineering
PhD	University of Birmingham, UK	2000	Chemical Engineering

C. KEMAHIRAN BAHASA ( <i>Language Proficiency</i> )					
Bahasa / <i>Language</i>	Lemah <i>Poor (1)</i>	Sederhana <i>Moderate (2)</i>	Baik <i>Good (3)</i>	Amat Baik <i>Very good (4)</i>	Cemerlang <i>Excellent (5)</i>
English					X
Bahasa Melayu				X	
Chinese					X
Lain-lain ( <i>other</i> ):Japanese		X			

**D. PENGALAMAN SAINTIFIK DAN PENGKHUSUSAN**  
(*Scientific experience and Specialisation*)

<i>Organization</i>	<i>Position</i>	<i>Start Date</i>	<i>End Date</i>	<i>Expertise</i>
FKKSA, UTM	Research Assistant	1995	1996	Solvent Recovery

**E. PEKERJAAN (*Employment*)**

<i>Majikan / Employer</i>	<i>Jawatan / Designation</i>	<i>Jabatan / Department</i>	<i>Tarikh lantikan / Start Date</i>	<i>Tarikh tamat / Date Ended</i>
Southern Mesh Sdn Bhd	Production Engineer	Production	1May 1994	1May 1995
Lecturer, Professor	Universiti Putra Malaysia	Jab. Kejuruteraan Kimia dan Alam Sekitar	20 Nov 2000	Kini

**F. ANUGERAH DAN HADIAH (*Honours and Awards*) – Attachment 1**

<i>Name of awards</i>	<i>Title</i>	<i>Award Authority</i>	<i>Award Type</i>	<i>Year</i>
<i>Academic Awards</i>	See attachment			
<i>Non-Academic Awards</i>	See attached file			
<i>Awards of Merit</i>	See attached file			

**G. SENARAI PENERBITAN (Sila masukan nama pengarang, tajuk, nama jurnal, jilid, muka surat dan tahun diterbitkan) (*List of publications – author (s), title, journal, volume, page and year published*) – Attachment 2**

<i>Journal</i>	See attached file
<i>Books/Monographs</i>	See attached file
<i>Chapter in book</i>	See attached file
<i>Proceedings</i>	See attached file
<i>Other publications</i>	See attached file
<i>Computer software</i>	

<b>H. PROJEK PENYELIDIKAN TERDAHULU(Past Research Project) – Attachment 3</b>					
<i>Project No.</i>	<i>Project Title</i>	<i>Role</i>	<i>Year</i>	<i>Source of fund</i>	<i>Status</i>
See attached file					

## Attachment 1

### Honours and Awards

#### A. Honours

1. **Malaysia Rising Star Award, Ministry of Higher Education, Malaysia, 2015.**
2. **Top Research Scientists Malaysia (TRSM)** by Academic Science Malaysia, 2013.
3. **Awarded 5 Stars and Role Model Supervisors in Universiti Putra Malaysia (2013). School of Graduate Studies, UPM.**
4. **Young Engineer Award 2006**, Institution of Engineers Malaysia (IEM), 2006.

#### B. Awards

##### i) International Level

1. **Gold Medal.** Sagozorb 2.0. BIS World Invention Awards 2014. London, UK.
2. **Gold Prize.** Waterbone Polyurethane Coating Derived from Vegetable Oil based Polyol. International Engineering Invention & Innovation Exhibition (i-ENVEX) 2014.
3. **Best Paper Award on Acoustic & Thermal Properties Track.** 1<sup>st</sup> International Conference on Food Properties (iCFP2014), Kuala Lumpur.
4. **Gold Medal.** Optical Sensor for Heavy Metal Detection Based on Chitosan. Innovation Industrial Design and Technology Exhibition (I-TEX 2013), Kuala Lumpur, 2013.
5. **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.
6. **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.

7. **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.

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

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

ii) **National Level**

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

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

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

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

5. **Silver Medal.** Building Products Having Phase Change Materials. Malaysia Technology Expo (MTE 2012), Kuala Lumpur, 2012.

6. **Bronze Medal,** Biomass Adsorbent. Bioinnovation Awards 2011, Kuala Lumpur, 2011.

7. **Silver Medal,** Radicross Recycle Rubber for Diverse Sealing Application. Rekacipta & Inovasi Nuklear Malaysia, 19-21 July 2011, Bangi, Selangor.

8. **Bronze Medal,** A Novel Biofiller for Biocomposite Applications. International Invention Innovation Industrial Design and Technology Exhibition (I-TEX 2011), Kuala Lumpur, 2011.

9. **Bronze Medal,** Polyolefin films modified with crude palm oil (CPO) for improved mechanical properties'. MalaysiaTechnology Expo (MTE 2011), Kuala Lumpur, 2011.

10. **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.

11. **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.

12. **Bronze Medal,** 'Hybrid Heat Pump Dryer', Malaysia Technology Expo (MTE 2009), Kuala Lumpur, 2009.

13. **Gold Medal,** 'Rigid Ceramic Filter for High Temperature Gas Cleaning Industrial Applications', MalaysiaTechnology Expo (MTE 2008), Kuala Lumpur, 2008.

14. **Silver Medal**, ' Cellulose based novel biocomposite'. International Invention Innovation Industrial Design and Technology Exhibition (I-TEX 2007), 2007.
15. **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.
16. **Ir. Thean Lip Thong Prize for Best Technical Paper Award**-Jolius Gimbut, 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.
17. **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.
18. **IEM Presidential Award of Excellence** – Best Improved Technical Division-Chemical Engineering, Institution of Engineers Malaysia (IEM), 2005.

iii) **UPM Level**

1. **Excellent Lectureship Award**, Faculty of Engineering, UPM, **2001**.
2. **Excellent Services Award**, UPM, **2003**.
3. **Excellent Services Award**, UPM, **2004**.
4. **Excellent Services Award**, UPM, **2005**.
5. **Excellent Services Award**, UPM, **2006**.
6. **Excellent Services Award**, UPM, **2007**.
7. **Excellent Services Award**, UPM, **2008**.
8. **Excellent Lectureship Award**, Faculty of Engineering, **2008**.
9. **Excellent Services Award**, INTROP, UPM, **2008**.
10. **Excellent Services Award**, UPM, **2009**.
11. **Excellent Services Award**, UPM, **2010**.
12. **Excellent Services Award**, UPM, **2011**.
13. **Excellent Services Award**, UPM, **2012**.
14. **Outstanding Performance and Services Award** (Professional and Management category), INTROP, UPM, 2009.

15. **Outstanding Performance and Services Award** (Professional and Management category), INTROP, UPM, 2008.
16. **Silver**. Modeling biodegradation and kinetics of Glyphosate by artificial neural network. UPM Research and Innovation and Competition, 2012.
17. **Bronze**. Anti-inflammatory Activity of the Major Compound from Methanol Extract of Phaleria macrocarpa Leaves. UPM Research and Innovation and Competition, 2012.
18. **Bronze**. Removal of Heavy Metals from Steel Making Waste Water by Using Electric Arc Furnace Slag. UPM Research and Innovation and Competition, 2012.
19. **Bronze**. Method and Composition for Masking Mesoporous carbon Coated Monolith. UPM Research and Innovation and Competition, 2012.
20. **Silver**. Building Products Having Phase Change Materials. UPM Research and Innovation and Competition, 2011.
21. **Bronze**. Modified Biomass Chemisorbent for Dyes Removal. UPM Research and Innovation and Competition, 2011.
22. **Gold**. Water Resistance Paper Made from Malaysian Cultivated Kenaf Whole Stem Fibres. UPM Research and Innovation and Competition, 2011.
23. **Bronze**. Writing and Printing Grade Paper from Kenaf-EFB Mixed Fibers. UPM Research and Innovation and Competition, 2011.
24. **Silver**. Mesoporous Polymer Derived Activated Carbon Monolith. UPM Research and Innovation and Competition, 2011.
25. **Gold**, '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.
26. **Gold**, 'Polyolefin films modified with crude palm oil (CPO) for improved mechanical properties'. UPM Research and Innovation and Competition, 2009.
27. **Silver**, 'MALDI TOF Mass Spectrometry of Acacia Mangium Polyflavonoid Tannins'. UPM Research and Innovation and Competition, 2009.
28. **Bronze**, 'Characterization and Preparation of Biocomposite from Kenaf Cellulose and Low Density Polyethylene for Food Packaging Application'. UPM Research and Innovation and Competition, 2009.
29. **Silver Medal**, 'Treatment of Oilfield Produced water with Combined Biological/Membrane Processes'. UPM Research and Innovation and Competition, 2007.
30. **Silver Medal**, 'Method of Extracting Tannin from Bark of Acacia Mangium Trees for Biobased Adhesive. UPM Research and Innovation and Competition, 2007.

31. **Bronze Medal**, Extraction and Freeze-Drying of *Piper betel L.* Standardized Extract as Antioxidant. UPM Research and Innovation and Competition, 2007.
32. **Bronze Medal**, Rigid Ceramic Filter for High Temperature Gas Cleaning Industrial Applications. UPM Research and Innovation and Competition, 2007.
33. **Bronze Medal**, Cow Dung: A Potential Biofiller For Biocomposite Applications. UPM Research and Innovation and Competition, 2007.
34. **Gold Medal**, 'Bio-Cellulose Filled Biocomposite Thermoplastic', UPM Research and Innovation and Competition, 2006.
35. **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.
36. **Bronze Medal Award**. 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.

## Attachment 2

### Publication

2013-2016

#### Year 2016

1. Mohammad Khalid Siddiqui, Chantara They Ratnam, **Luqman Chuah Abdullah**, Rashmi Walvekar, Chin Yern Chee (2016). Mechanical and physical performance of cow dung based polypropylene biocomposites. *Polymer Composites*, accepted. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 2.004).
2. 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).
3. 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*, accepted. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 3.299).
4. 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 ).
5. 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).
6. 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, 0.996).
7. 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)
8. 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, 1 – 15. (SCOPUS Cited Publication)

9. Soraya Hosseini, SurayaAbdulRashid, AliAbbasi , 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).
10. 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).
11. 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).
12. 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**

13. 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 <sup>13</sup>C NMR and MALDI-TOF mass spectrometry. *International Journal of Adhesion & Adhesives* 63, 117–123. (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.773).
14. 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).
15. 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), DOI: 10.1002/app.41649 (ISI/SCOPUS Cited Publication, Journal Impact Factor, 1.640).

16. Boon Khoo 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).
17. 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).
18. 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).
19. 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).
20. 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).
21. 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).
22. 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).
23. 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).
24. Nur Fatimah Abu Bakar, Ching Yern Chee, **Luqman Chuah Abdullah**, Chantara Theyv 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).
25. 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).
26. 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).
  27. 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).
  28. Soraya Hosseini, Ehsan Marahel, Iman Bayesti, Ali Abbasi, **L. Chuah Abdullah**, Thomas S.Y. Choong (2015). CO<sub>2</sub> 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).
  29. 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).
  30. 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).
  31. 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).
  32. 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 hydrazinemodified poly(acrylonitrile-co-acrylic acid). *Journal of Engineering Science and Technology*, Special Issue, 61 – 70 (SCOPUS Cited Publication).
  33. 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. (Cited Publication).
  34. Z. Zawani, **Luqman Chuah Abdullah**, Khalina Abdan (2015). Characterization of kenaf fibre-retting wastewater. *International Journal of Science and Research*, 4 (6), 314-317. (Cited Publication).

35. 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. (Cited Publication).

#### **Year 2014**

36. 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).
37. 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).
38. Nur Fatimah Abu Bakar, Ching Yern Chee, **Luqman Chuah Abdullah**, Chantara They 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)
39. 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).
40. 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. (Cited Publication)
41. 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).
42. Min Min Aung, Zahira Yaakob, Siti Kamarudin, **Luqman Chuah Abdullah** (2014). Synthesis and characterization of *Jatropha curcas L.* oil-based polyurethane wood adhesive. *Industrial Crops and Products*. 60, 177–185. (ISI/SCOPUS Cited Publication, **Journal Impact Factor**, 2.468).
43. 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).
44. 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).

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### Attachment 3

#### Past Research Project

##### A) Projects and Grants (As Project Leader)

No.	Year	Topic	Amount (RM)	Sponsor
1.	1 June 2003 - 30 Sept 2005	CNG/DI Engine and Transmission-Performance and Emission Studies	700,000	IRPA 33 - 020033011 (Top Down-PR)
2.	1 Jan 2003 - 31 Dec 2005	Process simulation and modelling of rigid ceramic filter for high temperature gas cleaning industrial application	142,000	IRPA 09-02-04-0702-EA001
3.	1 Nov 2003 - 31 Oct 2006	Synthesis and characterisation of advanced polymer for use as barrier packaging	154,500	IRPA 09-02-04-0703-EA001
4.	1 June 2001 - 30 June 2002	Simulation of Filter Cake Build-up and Detachment on Rigid Ceramic Filters	10,000	New Lecturer Scheme UPM

5.	1 Dec 2006 - 30 Nov 2008	Moldable and Non-extruding Polyurethane Roofing Materials Using Palm Oil Based Eutectic Phase Change Materials as Thermal Energy Storage	223,755	E-Science MOSTI
6.	1 Jan 07 - 31 Dec 2008	Waste Solvent Recovery System (of an Azeotropic Mixtures) Using Salt-Added Batch Distillation Process: Studies of VLE, Correlation and Process Dynamics	127K	Fundamenta IMOHE
7.	1 Aug 2007 - 31 July 2009	Study on the Extraction and Freeze-Drying Processes of <i>Piper betle L.</i> Standardized Extract	59K	RUGS UPM
8.	1 Sept 2009 - 31 Aug 2011	The Effect of Crude Palm Oil as Agrofiller in Low Density Polyethylene (LDPE) and Propylene (PP) Blends	30K	RUGS UPM
9.	1 Jan 2007 - 31 Jan 2011	Kenaf Downsteram Research-Biopolymer and Value-added Products	599K	EPU KPPK
10.	1 July 2009 - 30 June 2012	Optimization of Pilot Scale Production of Standardized Extract of Safed Musli ( <i>Chlorophytum borivilianum</i> )	96K	MOA
11.	1 Sept 2009 - 31 August 2011	The Effect of Crude Palm Oil as Agrofiller in Low Density Polyethylene (LDPE) and Propylene (PP) Blends	30K	RUGS UPM
12.	10 Dec 2010 - 10 Dec 2012	Characterization of Mechanical, Morphological and Thermal properties: Poly(Lactic Acid) nanocomposite using Nano Alumina particle as filler	15K	RUGS UPM

13	1 Jan 2010 - 31 Dec 2013	Increased Production Efficiency in Small-holder Kenaf Production Systems for Specific Industrial Applications. (CFC/IJSG/25)- Geotextile project	USD 2 millions Common Fund Commodities (CFC)	INTROP, UPM and IJSG, Bangladesh, UNIDO, Geneva
14.	Dec 2010 - Dec 2013	Application of Combined Sequencing Batch Reactor (SBR) and Adsorption for Treatment of Herbicide Glyphosate	145K	RUGS UPM
15.	1 Nov 2012 - 30 Oct 2014	Effect of Various Pre-Treatment on Membrane Behavior for Palm Oil Mill Effluent (POME)	128K	RUGS UPM
16.	1 Sept 2013 - 31 August 2015	Development of Jatropha Oil Based Polyurethane / Nanoalumina as Scratch Resistance Coating Materials	167.3K	E-Science, MOSTI
17.	1 Nov 2013 - 31 Oct 2015	Oil removal from palm oil mill effluent using sago waste	15K	Geran Putra IPS
18.	1 Nov 2013 - 31 Oct 2015	Synthesis and characterization of Jatropha oil-based waterborne polyurethane coating	15K	Geran Putra IPS
19.	1 Dec 2014- 30 Nov 2016	Extraction, isolation, purification and structure of elucidation of the active compounds from the roots of safed musli (C. Borivillianum)	101.2K	FRGS, MOHE