

2024

# BIODATA & CURRICULUM VITAE

Luqman Chuah Abdullah, PhD





**LUQMAN CHUAH ABDULLAH, PhD**  
**AIChemE, MIMM, MPRIM, MMOSTA, GIEM**

## Forewords

Life is graciously bigger than our finite minds can ever conceive. As for me, I personally want to make an impact towards the people around me by simply sharing my experiences from being a mentor to research and academics. At work, I am building a business not just to serve the students and fellow colleagues, but to establish and provide a purposeful opportunity for the younger generations in academics and research. I would like to champion a cause and allow it to mould me. Being responsible and selfless are my key principles in succeeding my goals.



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*Biodata*

## BRIEF BIODATA

### LUQMAN CHUAH ABDULLAH, PhD



#### Family Background

**Luqman Chuah Abdullah** (also known as Chuah Teong Guan) was born on 19<sup>th</sup> September 1970 in Taiping, Perak. He is the 2<sup>nd</sup> child, from 4 brothers and sisters, to Mr. Chai Thian Kang and Khoo Ah Yoke. His late father was a businessman, and mother was a housewife. He was converted to be Muslim in January 2005 and found his true faith from religion. Life was not really easy for a Chinese Muslim from a conservative Chinese family who practice traditional values. Alhamdulillah, his faith to Allah had brought him through so many difficult moments in life and has learned the true meaning of being grateful and thankfulness. Luqman is married to Zainorhayati bte Zainudiin, also working in the Faculty of Engineering, Universiti Putra Malaysia. They have been blessed with 3 children, aged 11, 15 and 17 years old, respectively.

#### Academic Background

Luqman Chuah was one of the top student at S.R.J.K Hua Lian II (primary school), SMJK Hua Lian (lower and upper secondary). He was active in societies and uniform unit and has won several academic competitions. He completed his BSc (Chemical Engineering) with honors from Universiti Teknologi Malaysia in 1994 and PhD from the Univ. of Birmingham, UK in 2000. He also awarded three certificate qualification in Management field, which are Management and Accounting , Statistical, Production Management and Marketing, Worker Relationship & Conflict Solutions and Accounting and Costing II, respectively.

## Teaching and Supervisions

Luqman Chuah started as a tutor in the Department of Chemical and Environmental Engineering in 1996 and became a lecturer in the year 2000. He had taught numbers of undergraduate core subjects in Chemical Engineering for over 27 years- Reaction Engineering, Process Simulation and Optimization, Chemical Engineering Thermodynamics, and Industrial Safety and Health and postgraduate courses Research Methodology, Atmospheric Risk Management, Air Pollution Engineering, Advance Optimization for Chemical Engineering, Solid Waste Management and Plant Safety and Risk Assessment. Furthermore, he was also the coordinator for the student industrial training program from year 2005-2008. He was always rated high in student's assessment in his teaching (Average above 4.7 out of 5.0) and has been awarded excellent lecturing in the very first of the year of his teaching in 2001. He is an excellent lecturer and is always concerned about his students' progress in learning. He had supervised more than 100 undergraduate students in their final year projects. He has also supervised **37 PhD students (28 completed, 2 passed the viva, 7 on-going)** and **30 MSc students (all of them completed)**. He was awarded with **5 Stars and Role Model Supervisors, 2013**, by School of Graduate Studies, UPM. Besides, he has also been appointed as an internal and external examiners more than 250 times for postgraduate students from international and national universities, including postgraduate students Australia and India.

## Research Experiences

Luqman Chuah managed to secure several research grants sponsored by the Economic Planning Unit (EPU), Prime Minister Office, the Ministry of Science, Technology and Innovation Malaysia (MOSTI), the Ministry of Agriculture (MOA), UNIDO, King Saud University and Universiti Putra Malaysia worth approximately RM3.5 million in total. Due to his active involvement in research, he has also been invited as the keynote speakers and forum panels for several international and national events and companies. He has also developed a strong research network with research institutions, such as The Malaysian Palm Oil Board (MPOB), the Malaysian Nuclear Agency, the Forest Research Institute Malaysia (FRIM), the Malaysia Rubber Board (MRB), Malaysia Timber Industry Board (MTIB) and other higher educational institutions, such as Universiti Sains Malaysia (USM), University Malaya (UM), Universiti Teknologi Malaysia (UTM), University Kebangsaan Malaysia (UKM), Universiti Malaysia Pahang (UMP), Universiti Malaysia Sarawak (UNIMAS) and Nottingham University Malaysia Campus. He is currently one of the project leader of HICOE Project in INTROP with total grant of RM 3 millions.

## Publications

Luqman Chuah has published more than **451 journal papers, 195 conference proceedings, 12 books, 19 book chapters and 24 technical articles** in the professional bodies and governmental bulletins, of which many of them are in highly reputable journals in the chemical, environmental and material and energy engineering.

Due to his vast experience in research, he is currently **Editor in Chief, *Pertanika Journal of Science and Technology* [JCR: 0.6, (2022)], UPM Pree, Academic Editor of *Journal of Chemistry* [JCR: 3.0, (2022)], Hindawi Publishing Corporation, Editorial Member, *Processes* [JCR: 3.5, (2022)], MDPI Publisher, and Section Editor, *ASM Science Journal*, Academic of Science Malaysia. He was also appointed as **Editorial Member, *Journal of Applied Chemistry* (Scopus), Hindawi Publishing Corporation, 2013-2018, Regional Editor, *Asia, International Journal of Plant, Animal and Environmental Science*, 2011-2017, Editorial Member, *International Journal of Environmental Engineering*, Inderscience Publisher, 2007-2008, Guest Editor of Special Issues of *Discover Sustainability* [JIF 2.6 (2022)], Springer Nature, 2024, *Sustainability* [JIF 3.9 (2022)], MDPI, Switzerland, 2020 and *International Journal of Polymer Science* [JIF 3.3 (2022)], Hindawi Publishing Corporation, 2016. He also served as **Editorial Member, *Institute of Engineers Malaysia Journal*, 2003-2008. Luqman Chuah was served as the Editor for *INTROPICAL*, Bulletin of INTROP since 2009 in promoting the image and activities of INTROP to industry and public sectors.******

## Administrations

Luqman Chuah was the **Head of Laboratory of Biopolymers and Derivatives, Institute of Tropical Forestry and Forest Products (INTROP)** since October 2006 till December 2011. He also holds several communities members in several administration committees in INTROP. He was previously the Secretary of Safety, Health and Environment Committees, Faculty of Engineering, Universiti Putra Malaysia and the Head of Safety, Health and Environment Unit, Faculty of Engineering, Universiti Putra Malaysia between the years of 2004 to 2005. He is also contributing his efforts in maintaining the Faculty of Engineering, UPM ISO9000 status by acting as the Auditor, ISO 9000:2000. Luqman was also one of the Technical Evaluators of RM 8 IRPA Grant –Projects and New Lecturer Schemes, RM 10- FRGS, ERGS and PRGS Funds from MOHE since year 2011. He is in the working committee for the Workshop “Anugerah Kualiti Perdana Menteri 2004”. He is also the program adviser for the technical workshop in the faculty and INTROP.

Luqman Chuah was **Advisor for the Chemical Engineering Student Society (ChESS)** under Bahagian Hal Ehwal Mahasiswa, UPM, 20001-2011. He had organized activities such as plant visits, industrial talks, career talks and has developed collaboration between IEM, industries and the Department of Chemical and Environmental Engineering, UPM. In year 2008, he assisted the ChESS in carrying out one of the biggest chemical engineering student event of nation; the National Symposium of Chemical Engineering (NACES 2008), which was participated by 400 students from 11

universities nationwide. In 2010, he led the team of Chemical Engineering students and won as the Overall Champion in NACES 2010 at UiTM, Shah Alam. In year 2011, Luqman Chuah is leading the ChESS society in an OASIS project which aims to clean the lake of Faculty of Engineering, UPM using Green Technology. Recently, Luqman Chuah was appointed as **Coordinator for UPM-LGM Postgraduate Diploma Program Preparation Committees, 2011** to prepare post-graduate curriculum.

He served as **Deputy Dean (Industry Relationship and International)** at School of Graduate Studies, UPM, in duration of **2012-2014**. He had actively promoted **DEng and PhD Industry** to the industrial sectors and coordinated MOAs with several international universities. Besides, he also managed to secure scholarships to UPM postgraduate students sponsored by **Human Life Advancement Foundation (HLAF)**, worth **USD 60 thousands per annual** in total. Currently, he is servicing as Research adviser for Institute of Tropical Forestry and Forest Products (INTROP) in advising various research activities.

### **Activities and Community Services**

Luqman Chuah is actively involved in many professional activities. He is the committee member in the Chemical Engineering Technical Division, Institution of Engineers Malaysia (IEM). He was an active member and in charge of organising talks and visits for the Division, e.g. visits to MPOB and AOTD. His contribution has played an important role in assisting the Chemical Engineering Technical Division, IEM to be awarded IEM Presidential Award of Excellence-Best Improved Technical Division in 2005 and 2007, respectively. He is also the committee member of Publication Standing Committee and the Bulletin editorial member. Luqman Chuah has also served as the IEM Library Chairman and has worked on the renovation and improvement of the IEM library between 2005-2009. He was also appointed as the IEM Standing Committee of Position Paper on Engineering Educators and Professional Practice.

Luqman Chuah is also a member of many other professional bodies. These include the Royal Academy of Science International Trust, the Institute of Materials, Malaysia, the Instrumentation and Control Society, Malaysia (ICSM), the Institute of Chemical Engineers, UK (ICHEME), the Malaysian Oil Scientists and Technologist Association and the Malaysian Water Association. He has also been a member of the Environmental Management and Research Association of Malaysia (ENSEARCH) and helps the society in promoting the awareness of environmental conservation to the students and public. He is also a member of the International Association of Engineers (IAENG), from 2010 until now. He was also assisted in the Community Service Project "**Mobile Clinic**" held at the Gombak orang asli settlement supported by the Rotaract Club of Pudu and the Blood Donation Campaigns organized by the Youth Movement Malaysia (YMM). He is also a strong supporter for WWF, Malaysia. He served as Expert Reference and Program Operator. Corporate Social Responsibility Program 2017-Sekolah Menengah Kebangsaan Puchong Batu 14, MISC Berhad, 22 February 2017. Besides, he was invited to official launce the Open Ceremony of Academic Achievement Awards of SMK PUTRAJAYA PRESINT 8(1), Putrajaya, 7 April 2018. Additionally, he also served as

committee for “Project Kesedaran: Penggunaan Kertas Kitar Semula, Peringkat Daerah. INTROP, 17 July 2019.

Luqman Chuah also serves as the evaluator or assessor of the Malaysia Qualification Agency (MQA) to evaluate programs of IPTA and IPTS since 2008 until now. He is also a member of SIRIM Working Committee of ISO Standard for Nanotechnology on Health, Safety and Environmental Issues. In 2017, he was a committee member in Dewan Cheng Ho, Majlis Dahwah Negara, Putrajaya and currently was elected as elected as Naib Pengerusi of the committees that year.

### **International Linkages**

During his PhD study, Luqman Chuah was selected by UNESCO to participate in the 1<sup>st</sup> International Students Conference with the theme of University Students: Think of Unthinkable, at Tunis, Tunisia, in 1998 (only 400 out of 450,000 global applicants being selected). Luqman Chuah was also awarded the Life Associate Membership of Royal Society of Science of Tunis. He was also a member Malaysia Consortium for Environmental and Development, sponsored by the Danish Government. He has developed a module on Air Pollution for the postgraduate course in Malaysian universities. He was also the organizing committees and sectional chairman of several international and regional conferences, e.g. World Engineering Congress 2002, Asian Powder Technology Symposium 2003, Regional Conference of Young Chemists (RCYS) 2004, Conference of Advanced Automotive Technology 2005 and Asia Pacific Chemical Engineering Congress 2006, World Engineering Congress, 2006 and International Conference of Kenaf and Allied Fibres (ICKAF 2009). He has also co-organized the International Symposium of Processing and Drying of Foods, Vegetables and Fruits together with Nottingham University, Malaysia and FRIM in 2011. 2. He was invited as to give technical lecture in Taiwan-Japan Joint Symposium on Particle Technology, Tao-Yuan, Taiwan, 2014. Besides, he also served as technical committees for various international functions, such as the 3<sup>rd</sup> International Conference of Chemical Engineering and Industrial Biotechnology 2016, 4th International Conference of Biotechnology Engineering 2016 and International Symposium on Coating and Corrosion by Institute of Materials in year 2016.

On top of that, Luqman Chuah is also a journal reviewer for many well-known international cited journals, such as Powder Technology, *AIChE*, Chemical Engineering Journal, Separation and Purification Technology, Int. Journal of Green Energy, Computer and Fluid, Desalination, Bioresource Technology, Materials Chemistry and Physics, Environmental Technology etc. He is a regular reviewer of several international conference proceedings including the ISA and IMETI, USA. He is also involved in an international kenaf commercialization project which is incorporated with CFC-UNIDO and institutions from Bangladesh, China and India. Besides, he is also a member of a research project on produced water treatment granted by King Saud University.

In year 2013, he hosted, organized and coordinated 2<sup>nd</sup> Malaysia-Thailand Graduate Forum in Life Science, Food Science and Agriculture (MTGF 2013) with the support of Faculty of Veterinary and School of Graduate Studies, Universiti Putra Malaysia. This events involved 60 postgraduate students, 12 academic staff from Thailand and 40 academic staff from Malaysia.

### **Industrial Experiences**

Luqman Chuah worked as Production Engineer at the Southern Mesh Sdn Bhd, a subsidiary company of the Southern Steel Group. His responsibilities included maintenance, production management, safety, quality control and despatch. Besides, he was also the company ISO 9000 Quality Management System representatives. During his services, he introduced the quality concept of the Statistical Process Control (SPC) in order to improve the product quality and to reduce production costs and wastes. After leaving Southern Mesh Sdn Bhd, he worked as a Quality Control Engineer in a local injection moulding company ( a main supplier of EON Proton accessories manufacturer), followed by working as a research assistant in the Faculty of Chemical and Natural Resources Engineering (FKKKSA), Universiti Teknologi Malaysia. Luqman Chuah joined Universiti Putra Malaysia as a tutor in September, 1996. Currently, he works as a consultant for several industrial projects besides lecturing and doing research in UPM.

Luqman Chuah was invited to give a technical lecture in the International Oil and Fats Conference, in year 2004. He was also invited to technical talk on the Food Safety on Malemine Workshop organized by the Malaysia Food Technology Society in year 2008. He was invited as Forum Panel in International Heating, Ventilation and Air Conditioning (HVAC) Conference in year 2008 and was invited to give lunch time technical lecture to the staff from the Sinclair Knight Merz Sdn. Bhd, Kuala Lumpur. He was invited speech in Medicinal and Aromatic Plants Conference, FRIM in 2008 and he also gave several technical talks in Institute Engineers Malaysia (IEM). In 2014, he was invited to give a technical lecture in Taiwan-Japan Joint Symposium on Particle Technology 2014 at Taiwan. In 2017, he had given his inaugural lecture in UPM.

Luqman Chuah had also been interviewed by Bulletin Utama of TV3 twice on the Food Safety with Melamine (December, 2008) and second, on the research of *Piper Betle* L. (April, 2011), interviewed by TV9 on TV 9 News on Haze issues in year 2012, and in *Rencana Alam*, RTM 1 on Air Pollution and Global Warming in year 2014. Besides, he was also interviewed by newspaper such as The Star and Berita Harian on various issues. He was also organizing the Wood Plastic Composites Workshop for thermoplastic composites manufacturers and also the staff from the Malaysian Timber Industries Board (MTIB) in June 2011. He also carried out consultations for companies such as Petronas and others.

Luqman Chuah had also developed strong research collaboration with industries, such as Lafrage Asia Sdn Bhd, HPC Water Systems (M) Sdn Bhd (wholly owned by Hitachi

Plant Technologist Ltd., Japan), Alam Flora Sdn Bhd, Master Jaya Environmental Sdn Bhd, Polycomposites Sdn Bhd, Eco-Glass Sdn Bhd and Tekun Jasad Berhad.

Luqman Chuah had been assigned as an **Industrial-University Attaché (Advisor)** by **Aerospace Malaysia InnovationCentre, Malaysia Industry-Government Group of High Technology (MIGHT)**, **Prime Minister's Department in 2017** and working on a sustainable bio-jet fuel project for aviation industry. Currently, he is involved in an international collaboration project between Malaysia and France University under **Program Dana Padanan Penyelidikan Antarabangsa (MyPair) Malaysia –France Bilateral Research Collaboration 2021 (MATCH 2021)**.

### **Awards and Honours**

Luqman Chuah had won several awards in teaching, service and research, e.g., Award of Excellent Teaching, Faculty of Engineering 2001, UPM, “Anugerah Perkhidmatan Cemerlang, Fakulti Kejuruteraan, UPM” (2002-current), university award such as PRPI, national awards like **ITEX, MTE, BioMalaysia, i-ENVEX 2014, IIID Johor 2017** and international awards such as BIS and Eureka and other academic awards, including a **Special Award - PRICE OF POLISH ASSOCIATION OF INVENTORS given by the Vice President Adam Rylski, Belgium**. His contribution in the IEM Chemical Engineering Technical Division also won him a **Presidential Award of Excellence-Best Improved Technical Division**, 2005. In 2006, Luqman Chuah won the **IEM Young Engineer Awards** for his excellent contribution in the field of engineering and research in the nation. One of his research project entitled “Polyolefin Films Modified with Crude Palm Oil (CPO) for Improved Mechanical Properties” was selected to be exhibited in Pacific Science Congress 2011 at KLCC in June 2011. He was also awarded with **Best Researcher Award (Category of Professors)** from **Faculty of Engineering, UPM** in 2009, 2012 and 2016. He also awarded with **Raja Tan Sri Zainal Prize** for Best Technical Paper (2006), **Ir. Thean Lip Thong Prize** for Best Technical Paper Award (2008) from IEM, **3rd Prize in the Competition for the Best Poster: Zdenek Buriance Memorial Award, Italy** in year 2007 and **2<sup>nd</sup> Prize for Best Poster Award in 12<sup>th</sup> Medicinal & Aromatic Plants Seminar (MAPS2010)**, Kuala Lumpur, 2010. In year 2013, he was awarded as **Top Research Scientists Malaysia (TRSM)** by **Academic of Science Malaysia (ASM)**. Furthermore, he was awarded **Malaysia Rising Star Award** by **Ministry of Higher Education Malaysia** and recognized as one of the **Top 1% Globally Cited Researchers by Thomson Reuters in the year 2015**. He was also awarded with **Anugerah Khas Pensyarah Tahun 2016 (Kategori Professor)**, Faculty of Engineering, UPM in year 2017. He was selected as a **World Top 2% Scientists (Career-Long Citation Indexed, 2019, 2020, 2021)** and **World Top 2% Scientists (Citation Impact in Single calendar Year, 2019, 2020, 2021)**, **Stanford University, USA**. In 2022, he was elected as **Deputy Head of Cluster**, Environment and Natural Resources Cluster, **Majlis Profesor Negara**.

*Personal  
Information &  
Academic  
Qualification*

## LUQMAN CHUAH ABDULLAH (CHUAH TEONG GUAN)

### 1. PERSONAL INFORMATION

Date of Birth : 19 September 1970  
Place of Birth : Taiping, Perak  
Race : Chinese  
Sex : Male  
Age : 53+  
I/C No : 700919-08-5589 (New); A1686581 (Old)

### 2. CURRENT POSITION

#### **Professor**

Chemical and Environmental Engineering Department  
Faculty of Engineering  
Universiti Putra Malaysia  
43400 UPM Serdang  
Selangor, Malaysia.

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E-mail : [chuah@upm.edu.my](mailto:chuah@upm.edu.my)  
Homepage : <http://www.eng.upm.edu.my/~kka>

**Expertise:** Environmental Engineering, Chemical Process Engineering, Separation and Purification Technologies, Process Simulation and Modelling, Material Engineering and Renewable Energy.

**Specialized Field:** Environmental Engineering (Pollution Control), Separation Technology (Adsorption, filtration, mechanical separation, distillation etc.), Material Engineering (polymers, composites, biopolymers, coating etc.) and Particle Technology (drying, crystallization, fluidization etc.)

### 3. ACADEMIC QUALIFICATION

#### School

Name of School	Certificate Obtained	Year Obtained
SMJK HUA LIAN	<b>SPM</b>	1988

Name of Institution	Qualifacation Obtained	Area of Specialisation	Year
University of Birmingham, UK	<b>PhD</b>	Chemical Engineering	2000
Universiti Teknologi Malaysia	<b>BSc</b>	Chemical Engineering (Major in Polymer Eng)	1994
Universiti Sains Malaysia	<b>Certificate</b>	Worker Relationship & Conflict Solutions and Accounting and Costing II	1996
Universiti Sains Malaysia	<b>Certificate</b>	Statistical, Production Management and Marketing	1995
Universiti Sains Malaysia	<b>Certificate</b>	Management and Accounting	1993

*Employment  
& Teaching  
Experience*

## 1. EMPLOYMENT/WORKING EXPERIENCE

Post Held	Employer	Duration
Production Engineer	Southern Mesh Sdn Bhd, Shah Alam	1994 - 1995
Quality Control Engineer	ACPLAS Industries Shd Bhd, Selayang	1995
Research Assistant cum Student	FKKSA, Universiti Teknologi Malaysia	1996
Tutor	Department of Chemical and Environmental Engineering Faculty of Engineering Universiti Pertanian Malaysia	1996
Teaching Assistant for Process Control, Process Control Laboratory, Particle Technology, 2 <sup>nd</sup> Year Plant Design Project	University of Birmingham, UK	1997 - 2000
Conference Assistant, 3 <sup>rd</sup> World Congress of Particle Technology, Brighton, UK	IChemE, UK	7 - 9 July 1998
Conference Assistant 8 <sup>th</sup> World Filtration Congress, Brighton	The Filtration Society, UK and Elsevier Science, UK	3 - 7 April 2000
Lecturer	Department of Chemical and Environmental Engineering Faculty of Engineering Universiti Putra Malaysia	2000 - current

Head of Laboratory	Laboratory of Biopolymer and Derivatives Institute of Tropical Forest and Forest Products (INTROP) Universiti Putra Malaysia	2005 – 2011
Associate Professor	Department of Chemical and Environmental Engineering Faculty of Engineering Universiti Putra Malaysia	2006 - 2011
Deputy Dean (Industrial and International Relationships)	School of Graduate Studies Universiti Putra Malaysia	2012 -2014
Research Advisor	Institute of Tropical Forestry and Forest Products, Universiti Putra Malaysia	2012-current
Professor (VK 7, JUSA C)	Department of Chemical and Environmental Engineering Faculty of Engineering Universiti Putra Malaysia	2011 - 2018
Professor (VK6, JUSA B)	Department of Chemical and Environmental Engineering Faculty of Engineering Universiti Putra Malaysia	2018 - Current

## 2. TEACHING EXPERIENCE

Had taught subjects related to Chemical and Environmental Engineering since becoming lecturer in the Chemical Engineering Department, UPM since 2000. Teaching Chemical Engineering undergraduate and post-graduate students (including other departments and faculties) in subjects related to:

### Undergraduate Courses:

- Chemical Engineering Thermodynamics
- Reaction Kinetics and Reactor Design
- Process Simulation and Optimization
- Industrial Safety and Health
- Palm Oil Technology

- Polymer Engineering
- Fluid Mechanics for Chemical Engineering
- Chemical Engineering Laboratory II
- Plant Design Project
- Industrial Training Coordination

**Postgraduate courses:**

- Atmospheric Risk Management
- Research Methodology
- Advanced Particle Technology
- Hazard Analysis and Risk Assessment
- Advanced Optimization for Chemical Engineers
- Air Pollution Engineering
- Solid Waste Management

Luqman Chuah has also taught students from the SEGI COLLEGE under James Cook University Programme in Reaction Engineering. He has consistently obtained high ratings for his teaching through student evaluation. He was regularly invited to lecture in Faculty of Medicine and Health Science, UPM on Air Pollution Control.



*Supervision of  
Students*

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## 1. SUPERVISION OF STUDENTS

### A) PhD Students (Main Supervisor) -Completed

1. **Pin Kar Yong.** Extraction and Production of *Piper Betle L.* (Completed by 2009).
2. **Fatemeh Mirjalili.** Characterization and Analysis of Nonoclay-PP Nanocomposite. (Completed by 2010).
3. **Mohsen Nourouzi Mobareke.** Removal of Pesticides Using Combined Biological and Physical 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).

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15. **Emiliana Rose Binti Jusoh @ Taib.** Production Coating Materials Using Jatropha 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 (*Hibiscus Cannabinus L*) Nanocellulose for Green Bionanocomposite Product. (Completed by 2018).
  18. **Ayu Haslija Bt Abu Bakar.** Adsorption of fluoride Using Biosorbent. (Completed by 2018).
  19. **Siti Hasnah Binti Kamarudin.** Development of Biodegradable Biocomposite. (Completed by 2018).
  20. **Saba Rashidi.** Synthesis of CNT nanofluid and its stabilization study. (Completed by 2019).
  21. **Adeyi Abel Adekanmi.** Development of Thiourea Modified Poly(Acrylonitrile-Co-Acrylic Acid) for Cationic Dyes Adsorption from Single and Binary Solution. (Completed by 2019).
  22. **Chen Jia Tian.** Technical and Economic Assessment of Producing Sustainable Bio Jet Fuel in Malaysia. An Integrated Energy Approach. (Completed by 2020).
  23. **Chai Chee Keong.** Preparation, Characterization and Properties of Radiation Vulcanized Epoxidized Natural Rubber Latex. (Completed by 2021).
  24. **Almohamedabas Shihab Ezzuldin M Saber.** Synthesis and Characterization of Polymeric Adsorbents for the Removal of 4-nitrophenol from Aqueous Solution. (Completed by 2022).
  25. **Mohamad Abdullah.** Removal of Heavy Metals in Aqua System by Using Poly(acrylonitrile-co-acrylic acid) Polymers. (Completed in 2022).
  26. **Nurul Huda binti Mudri.** Autonomous Extrinsic Self-Healing Coating Based on Jatropha Polyurethane Acrylate. (Completed by 2023).
  27. **Norliza binti Abdul Latiff.** Nutrient Density and Phytochemicals: A Study Case on *Oenanthe Javanica*, a Malaysian Famous Salad (Ulam). (Completed by 2023).
  28. **Li Xiaoju.** Source Apportionment, Spatiotemporal Distribution and Pollution Evaluation of Air Pollutants Based on Multi-Source Data in Sichuan Basin. (Completed by 2023).

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## B) PhD Students (Main Supervisor) -Ongoing

1. **Siti Zalina Binti Yaacob.** Rodenticidal Potential of *Gliricidia Sepium* Leaf Extract for Rat Control in Paddy Field Areas. (Expected to be completed by 2024).
2. **Suhanna Natalya Binti Mohd Suhaimy.** Utilization of Steel Industry Slag for Removal of Fluoride. (Expected to be completed by 2024).
3. **Norsuhaili binti Kamairudin.** Synthesis and Characterization of Palm-Based Alkanolamide Polyols from Palm Oil Derivatives for Polyurethane Products. (Expected to be completed by 2024).
4. **Nor Halaliza binti Alias.** The Potential of Modified Kenaf in the Oil Removal of Palm Oil Mill Effluent (POME). (Expected to be completed by 2024).
5. **Aina Fathiah binti Zuhaidi.** Adsorption of Antibiotic Nalidixic Acid on Grafted Polyethylene. (Expected to be completed by 2025).
6. **Shahril Bin Mohamad.** Synthesis of Bio-Nanocrystal Cellulose (BNCC) from Bacterial Cellulose Cultured Using Oil Palm Frond (OPF) Juice. (Expected to be completed by 2024).
7. **Nor Aida Binti Yusoff.** Development of Adsorptive Membranes Using Electron Beam Irradiated Grafted Nylon 6 And Cotton for Naproxen Removal. (Expected to be completed by 2025).
8. **Sharifah Mona Binti Abd Aziz Abdullah.** Electron Beam Irradiated Grafted Polyamide for Ciprofloxacin Removal from Water. (Expected to be completed by 2025).
9. **Al-Naisani Mohammed Saeed Mahmou.** Preparation and Characterization of Irradiated Grafted Fibers Adsorbents for the Removal of Metformin from Aqueous Solution. (Expected to be completed by 2025).

## C) Master Students by Research (Main Supervisor)- Completed

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).

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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 Materials with Palm Oil. (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 (*ElaeisguineensisJacq*). (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 Nanocomposites. (Completed in 2010).
  12. **Nur Fatimah Abu Bakar.** Characterization, Morphological and Thermal Analysis of Grafted Kenf Fibre Reinforced PVC-EVA blend. (Completed in 2011).
  13. **Nurul Akmil binti Mustaffa.** Effect of Coupling Agent on the Production of Nanoalumina/HA/HDPE Nanocomposites. (Completed in 2011).
  14. **Tee Lee Hong.** Drying and Characterization of *Piper Betle L.* Powder. (Completed by 2012).
  15. **Hazwani Husna binti Abdullah.** Preparation of Water Resistant Paper from Kenaf. (Completed by 2012).
  16. **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).

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19. **Nurul Izzati Binti Mohd Zawawi.** Water Resistant Paper from Kenaf Fibre Using Impregnation Method. (Completed by 2013).
  20. **Ahmad Syafiq b. Ahmad Hazmi.** The Potential of Jatropha Oil in Polyurethane Synthesis as A Polymer Electrolyte Material. (Completed by 2013).
  21. **Puteri Farah Wahida Binti Mgt Ahmad.** Advanced Drying of *Piper Betle L.* Leaves. (Completed by 2013).
  22. **Mohd Azrie bin Awang.** Study on Solvent Extraction of Kacip Fatimah Extracts. (Completed by 2014).
  23. **Nur Amirah binti Mohd Zahri.** Removal of Heavy Metal by Polyacrylonitrile-Acrylic Acid Amidoxime. (Completed by 2015).
  24. **Nur Salimah binti Mohd Rapeia.** Removal of Zn and Cd by Polyacrylonitrile-Acrylic Acid Hydrazine. (Completed by 2016).
  25. **Maytham Kadhim Obaid.** Adsorption of Acid Dye Using Qurtenized Kenaf Fibres. (Completed by 2017).
  26. **Norshafini binti Mohd Zain.** Improving Compatibility of Waste Nitrile Rubber (w-NBR) / Ethylene Vinyl Acetate Blends by Electron Beam (EB) Radiation. (Completed by 2018).
  27. **Lau Kia Li.** Performance of Amidoxime-Modified Poly(Acrylonitrile-Co-Acrylic Acid) for the Removal of Boron in Aqueous Solution. (Completed by 2019).
  28. **Nur Haryani binti Zabarruddin.** The Synthesis of Biodiesel in Continuous Flow Packed with Ion Exchange Kenaf Fiber. (Completed by 2020).
  29. **Nur Amirah Asifa Raisha binti Zahari.** Drying and Extraction of *Plectranthus Amboinicus* (Lour) Spreng Leaves. (Completed by 2020).
  30. **Zulina bte Abd Maurad.** Powder Behavior of Methyl Ester Sulphonates Generated by High Shear Mixer. (Completed by 2021).
  31. **Mohamad Ridzuan bin Amri.** Synthesis of Polyol from Plant Oil for Water Based Polyurethane Application: Characterization, Thermal, Rheological Properties and Storage Stability. (Completed by 2022 but never submit his corrected thesis).

#### **D) PhD Students (Co- Supervisor)- Completed**

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1. **Muatuaz 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. **Behjat Tajeddin.** Preparation and Characterization of Biocomposites Based on Cellulose for Food Packaging. (Completed in 2009).
  6. **Darmadi.** Multicomponent adsorption modelling using Maxwell-Steven equation. (Completed in 2009).
  7. **Yeah Chiou Moi.** Process Modelling of the Production and Purification of Concentrated Diacylglycerol Oil. (Completed in 2011).
  8. **Alireza Pendashteh.** Treatment of Oilfield Produced Water with Combined Biological/Membrane Processes. (Completed in 2011).
  9. **Muhammad.** Adsorption Beta Carotene by carbon Coated Monolith. (Completed by 2011).
  10. **Norzilah binti Abdul Halif.** Synthesis of Carbon Nanofibre Using CVD Technique for Hydrogen Storage Application. (Completed by 2011).
  11. **Maryam Joukar.** Production, Characterization and Migration Study of Melt Blended and Layer Deposited Polyethylene Silver Nanocomposite as an Active Food Packaging. (Completed by 2012).
  12. **Majid Dehghan Nayeri.** 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).

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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. **Lee Siong Hoong.** Impact of Inlet Slug Flow on Horizontal Gas- Liquid Separator. (Completed by 2019).
  20. **Lee Sin Yee.** Supercritical Anti-Solvent Microencapsulation of Hempedu Bumi (A. Paniculata) for Potential Food Ingredient Development. (Completed by 2019).
  21. **Reza Zolfaghari.** Utilization of Cationic Surfactants for Demulsification of Produced Water from Alkali- Surfactant-Polymer Flooding Process. (Completed by 2019).
  22. **Go Wen Ze.** Biological Control Toward White Root Rot Disease in Rubber Tree. (Expected to be completed by 2020).
  23. **Chee Siew Sand.** Development and Characterization of Kenaf/Bamboo Fibres Reinforced Epoxy Geopolymer Hybrid Composites for Building Material Applications. (Completed by 2020).
  24. **Omale Sunday Ogakwu.** Carbon Dioxide Sequestration by Direct Mineral Carbonation: Using Malaysia Electric Arc Furnace Slags. (Completed by 2020).
  25. **Wong Lih Jiun.** Process of Starch, Xylose and Glucose Mixtures Extracted from Oil Palm Trunk for Bioethanol. (Completed by 2021).
  26. **Mohamad Rasool Malekbala.** Synthesis of Carbon Nanofiber Coated on Monolith and Its Application in CO<sub>2</sub> Adsorption. (Completed by 2021).
  27. **Marwah binti Rayung.** Synthesis of Jatropha Oil-Based Polyurethane Acrylate for Dye Sensitized Solar Cell Application. (Completed by 2021).
  28. **Chai Kai Ling.** Synthesis and Characteristics of Non-Edible Jatropha Oil Based Polyurethane Acrylate (PUA) Gel Polymer Electrolyte for Dye Sensitized Solar Cell Application. (Completed by 2022).
  29. **Mohd Fadhzir bin Ahmad Kamaroddin.** High Temperature Electrolysis of Copper Chloride Using Hybrid Proton Exchange Membrane (PEM) for Hydrogen Production. (Completed by 2022).

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30. **Masrat Rasheed.** Development of Biodegradable Food Packaging Film from Natural Materials. (Completed by 2022).
  31. **Nurhanisah binti Othman.** Synthesis and Optimization of Palmitoyl-Chitosan Nanoparticles Containing L-Ascorbic Acid and Thymoquinone as Potential Antioxidant Regime for ROS Scavenging Activity in Lungs. (Completed by 2022).
  32. **Hanisah binti Mohmad Nasir.** Removal of 17 $\alpha$ -Ethinylestradiol (Ee2) as Selected Endocrine Disrupting Compounds (EDCS) from Aqueous Solution Employing of Magnetic Nanoparticles (MNPS) Incorporated with Dead Calcareous Skeleton. (Completed by 2023).
  33. **Yayat Nurhidayat.** Surface Functionalized-Oil Palm Empty Fruit Bunches (Opefb) Derived Cellulose Membrane: Fabrication and Performance Evaluation for Wastewater Treatment. (Completed by 2024).
  34. **Dayang Nur Sakinah Binti Musa.** Smouldering Peat Fire Behaviour and Extinction Mechanism. (Completed by 2024).

#### **E) PhD Students (Co- Supervisor)- On-going**

1. **Siti Noor Kamilah Bt Haji Mohamad.** Synthesis and Evaluation on Structural Properties and Performance of Graphene Oxide Incorporated into Chitosan/Poly-Lactic Acid Composites Prepared through Blending and Grafting Method. (Expected to be completed by 2024).
2. **Nina Farhana Binti Mohd Jamaludin.** Enhancement of Biohydrogen Production from Palm Oil Mill Effluent (POME) Utilizing Immobilize Cell Induced by Magnetite Nanoparticles via Thermophilic Anaerobic Fermentation. (Expected to be completed by 2024).
3. **Adilijiang Tuerxun.** Land and Sea Surface Latent Heat Flux Anomalies from Remote Imagery as Earthquake Precursory Signals. (Expected to be completed by 2024).
4. **Nur Nida Syamimi binti Subri.** Preparation of Chemically Modified-Hyper-Crosslinked Microspheres of Poly(Acrylonitrile-Co-Divinylbenzene-Co-Vinylbenzylchloride) as Sorbents in Dispersive-Solid Phase Extraction of Pharmaceutical Residues. (Expected to be completed by 2024).
5. **Norhani Binti Jusoh.** Technical Feasibility of Cellulose Nanofibrils Production from Surface-Modified Cellulose of Oil Palm Empty Fruit Bunch. (Expected to be completed by 2022).

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6. **Liyana Binti Yahya.** Evaluation of Potential Robust Native Species for Carbon Fixation at Malaysian Coastal Coal Fired Power Plant. (Expected to be completed by 2022).
  7. **Chilabi Haider Jaafar Hussein.** Characterisation of Bio-Based Triboelectric Nanogenerator (B-TENG) Combined with Compound Planetary Gear Test Rig in Hybrid Mode with PZT for Energy Harvesting. (Expected to be completed by 2022).
  8. **Choo Chee Ming.** Effect of Bio-coagulant as Pre-treatment for Ultrafiltration Process Using Synthesized PVDF Flat Sheet Membrane for Sago Effluent Treatment. (Expected to be completed by 2022).
  9. **Zhou Huaxu.** Modification Methods for High Performance Particleboard from Rubberwood. (Expected to be completed by 2025).
  10. **Li Fan.** Synthesis of Microparticles and Nanoparticles Calcium Peroxide and Its Application in Glyphosate Wastewater. (Expected to be completed by 2024).
  11. **Du Xuan.** Electrospun Cellulose/Chitosan Nanocomposite Membrane for Water Treatment. (Expected to be completed by 2025).
  12. **Chilabi Haider Jaafar Hussein.** Characterisation of Bio-Based Triboelectric Nanogenerator (B-Teng) Combined with Compound Planetary Gear Test Rig in Hybrid Mode with PZT for Energy Harvesting. (Expected to be completed by 2025).
  13. **Kondum Franklin Aondoaver.** New Hybrid Machine Learning Model for Predicting Water Quality Index. (Expected to be completed by 2025).
  14. **Amobi Nduka Henry.** (Expected to be completed by 2026).
  15. **Zhang Fan.** A Smart Coating Prepared from Metal-Coordination Bio-Based Vitriimer and Carbon Dots. (Expected to be completed by 2025).

**F) Master Students by Research (Co-Supervisor)- Completed**

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 Mezoughi.** Arsenic removal from water using natural coagulant (*Moringa-Oliefera*) (Completed in 2003).

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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).

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20. **Syed Mohammad Dara Ghasimi.** Anaerobic Treatment of Leachate from Transfer Station. (Completed in 2008).
  21. **Hairani Tahir.** 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 cannabinus*L.) Core Fibre for Fermentable Sugar and Lactic Acid Production. (Completed by 2012).
  31. **Rafidah binti Dahlan.** Properties of Paper from Oil Palm Palm Empty Fruit Bunch and Kenaf for Writing and Printing Paper. (Completed by 2012).
  32. **Ehsan Marahel.** Capture of 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).

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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).

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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. **Aziz Khalida.** Kinetic Evaluation of Drying Behaviour of Food Waste and Leftovers and Its Potential Towards Sustainable Agriculture (Completed by 2022).

**G) Master Students by Research (Co-Supervisor)-On-going**

1. **Chew Tung Woey.** Activated Carbon Monoliths Made from Coconut Shell for CO<sub>2</sub> Adsorption (Expected to be completed by 2024).
2. **Muhammad Amir Aizat Bin Khamis.** Carbon Capture of Alkaline Industrial Waste in Cementitious Material via Carbonation Curing. (Expected to be completed by 2024).
3. **Chan Kai Li.** Production of Bacterial Cellulose in a Fed-Batch Fermenter Strategy. (Expected to be completed by 2025).

**H) 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 (Pkk143033).** Optimization on the Fractionation and standardized of quercetin from melastoma for anti-diabetic. Universiti Teknologi Malaysia. (Completed by 2018).
4. **Nurul Akmil Mustaffa (P051420002).** Fabrication and Psycho-Mechanical Analysis of Conductive HDPE/PANI Nanocomposite Reinforced with Treated Nano Alumina Particle. Univesiti Teknikal Malaysia Melaka (UTeM). (Completed 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).

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**I) MSc without Thesis (Main Supervisor- Coursework and Project)**

1. **Serafine Woo Hooi Ling.** Key Design Factors of Pulse Fabric Filter Dust Collector. (2004).
2. **Farah Naemah Md Saad.** Study of Effect on Various ZnCl<sub>2</sub> Concentration to Rice Husk as Low Cost Adsorbent Synthesis. (2004).
3. **Yeoh Boon Chuan.** Modelling and Simulation of SBR Using Matlab. (2005).
4. **Ahmad Nadreen Mohd Ali.** Heavy metal Removal from Aqueous Using Palm Kernel Shell Activated Carbon. (2007).
5. **Che Zulzikrami Azner Abidin.** Removal of Copper from Aqueous Solution Using Rice Straw-derived Char. (2008).
6. **Low Kean Yung.** Study on Air Pollution Trend in Kuala Lumpur using GIS Modelling. (2008).
7. **Tan Lai Poh.** Study of Chemical Spillage in a laboratory (Indoor Air Pollution) – Modelling by Computational Simulation. (2009).
8. **Yap Yoon Loy.** Towards Green Building with Compliance to Green Building Index (GBI). (2010).
9. **Tan Yen Chen.** Meteorological Data Preparation for AMS/EPA Regulatory Model (AERMOD). (2010).
10. **Mohd Azwan Ahmad.** Bioaugmentation of Activated Sludge by Isolated Bacteria from Oil Palm Plantation Soil. (2010).
11. **Siti Fatimah Mokhtar.** Review of Polymers: Major Contribution in Daily Life Product and Its Environmental Issues. (2010).
12. **Gamel Elidin Omer.** Removal of Reactive Dyes from Aqueous Solution Using Electric Furnace Slag. (2011).
13. **Mohd Qaharuddin Abdullah.** Trial Burn Firing of New C Coal at Kapar Energy Ventures (KEV) Power Station, Malaysia. (2011).
14. **Nurhuda Salam.** Multi-Level Air Pollution Study at Petaling Jaya Using ICSTC# Model. (2011).
15. **Nur Hafizah Samad.** Assessing the contribution of Benzene Concentration to the User at Petro Station. (2011).

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16. **Mohd Asyraf Md Junos.** A study of Elevated Wind Speed Assessment at East Malaysia Using Extrapolation Method. (2014)
  17. **Aina Fathiah Zuhaidi.** Column Sorption Studies for Removal of Oil from Palm Oil Mill Effluent (POME) by Sago Bark. (2014).
  18. **Ali Imran Bin Mohamad.** Removal of Reactive Black Dye Using Kenaf. (2015).
  19. **Lui WenLeong.** Comparison of Two Dispersion Model (AERMOD and ISCST3) for Sulfur Dioxide Dispersion from Anthropogenic Sources in Hulu Langkat District. (2015).
  20. **Wan Mujahid Wan Hamidon.** Comparative Study Between MM5 Predicted Meteorological Data and Observed Meteorological Data Using AERMOD Air Dispersion Model. (2015).
  21. **Mohd Rosiskada Bin Mohamed.** An Assessment on Particulate Matter 10 (PM10) in Ambient Air in Perai, Penang. (2016).

*Research*

## 2. RESEARCH (since 2000)

### A) Completed 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:	127K	FRGS, MOHE

		Studies of VLE, Correlation and Process Dynamics		
7.	1 Aug 2007 - 31 July 2009	Study on the Extraction and Freeze-Drying Processes of <i>Piper betle</i> L. 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 Downstream 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)	RM 800K out of Total USD 2 millions Common Fund	INTROP, UPM and IJSG, Bangladesh,

		Subproject- Geotextile Production Using Woven Kenaf	Commodities (CFC)	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 June 2010 - 31 May 2011	Meteorological Data Preparation for AMS/EPA Regulatory Model-Aermod	6K	World Federation of Scientists, Geneva
16.	1 Nov 2012 - 30 Oct 2014	Effect of Various Pre-Treatment on Membrane Behavior for Palm Oil Mill Effluent (POME)	128K	RUGS UPM
17.	1 Sept 2013 - 31 August 2015	Development of Jatropha Oil Based Polyurethane / Nanoalumina as Scratch Resistance Coating Materials	167.3K	E-Science, MOSTI
18.	1 Nov 2013 - 31 Oct 2015	Oil removal from palm oil mill effluent using sago waste	15K	Geran Putra IPS
19.	1 Nov 2013 - 31 Oct 2015	Synthesis and characterization of Jatropha oil-based waterborne polyurethane coating	15K	Geran Putra IPS
20.	1 Dec 2014- 30 Nov 2016	Extraction, isolation, purification and structure elucidation of the active compounds from the roots of safed musli (C. Borivillianum)	101.2K	FRGS, MOHE
21.	15 Feb 2016-15 Feb 2018	Improving Compatibility of Waste Nitrile Rubber (W-NBR) / Ethylene Vinyl Acetate Blends by Electron Beam (EB) Radiation	20K	GP-IPS, UPM

22.	1 December 2016-30 November 2018	Adsorption of Single and Binary System of Reactive Dyes Using Quaterization Kenaf Core Fiber	20 K	Geran Putra IPS
23.	4 Jan 2016-3 Jan 2018	Waterborne polyurethane dispersions synthesized from jatropa oil for surface coating: Characterization, thermal, rheological properties and storage stability	328K	Geran FRGS, MOE
24.	1 January 2017-31 December 2019	Synthesis of Polyol from Plant Oil for Water Based Polyurethane Applications: Characterization, Thermal, Rheological and Storage Stability	120K	HICOE, MOHE
25.	1 July 2017-1 July 2019	Synthesis of Spherical Nanocellulose-Nanosilver Hybride	137K	IPB, UPM
26.	1 February 2016- 31 January 2018	Oily Wastewater Treatment and Water Reuses in Oil and Gas Industry	110.5 K	KTP, MOHE
27.	1 July 2017-1 July 2019	Synthesis of Spherical Nanocellulose-Nano Silver Hybride	137K	Geran Putra IPB, UPM
28.	15 February 2018- 14 April 2020	Technical and Economic Assessment of Producing Sustainable Bio Jet Fuel in Malaysia: An Integrated Energy Approach	25 K	Geran Putra IPS, UPM
29.	2 April 2018-2 April 2020	Particle sizing, mechanical, morphological, rheological and powder storage stability on mixing of methyl ester sulfonates under high shear mixer	25 K	Geran Putra IPS, UPM
30.	1/09/2019-31/08/2021	Investigation of a novel approach hierarchically cellulose nanofibrillar shapes in 2D and 3D from kenaf bast fiber in making new aerogels	78K	FRGS, MOE

31.	3 Nov 2019- 2 Nov 2021	Thermorheological behavior of polyamide 11 blends and composites	20K	CRG-UPM-UTM
32.	1 September 2023-31 August 2024	Development of adsorptive polymer adsorbent using electron beam irradiated grafted polyethylene /polypropylene for naproxen removal	20K	Geran Putra IPS, UPM

#### B) Mentor of Research Projects (Completed)

No.	Year	Topic	Amount (RM)	Agency
1.	15 April 2010 - 15 April 2012	Synthesis of Rubber Seed Oil Based using Novel Catalyst	15K (Ms. Siti Zulaika Razali)	RUGS (ITMA,UPM)
2.	2 May 2013 -31 July 2014	Thermodynamics and degradation kinetics study of flavonoids and phenolic acids from <i>Orthosiphon stamineus</i>	49,280	Research Acculturation Collaborative Effort (RACE) Grant

#### C) Completed Research Projects and Grants (As Project Member)

No.	Year	Projects	Leader	Project Grant (RM)	Agency
1.	1 June 2003 - 30 Sept 2005	CNG-DI DI Engine and Transmission – Fuel Storage	Prof. Dr. Fakhru Razi Ahmadun (UPM)	4.5 million	MOSTI

2.	1 Jan 2002 - 31 Dec 2005	Development of a comprehensive software for the design of PSA processes for chemical & process industries	Prof. Dr. Thomas Choong SY (UPM)	99K	MOSTI
3.	1 Jan 2003 - 31 Dec 2006	Convergence acceleration for the calculation of cyclic steady state for the design of pressure swing adsorption for chemical and process industries	Prof. Dr. Thomas Choong SY (UPM)	199K	MOSTI
4.	1 Jan 2007 - 31 Dec 2009	A new hybrid algorithm for simulation of cyclic processes.	Prof. Dr. Thomas Choong SY (UPM)	60K	FRGS, MOHE
5.	1 Jan 2007 - 31 Dec 2009	Adsorption of hydrogen	Prof. Dr. Thomas Choong SY (UPM)	56K	RUGS Fund UPM
6.	1 Jan 2007 - 31 Dec 2009	Preparation of polymer derived activated carbon monolith.	Prof. Dr. Thomas Choong SY (UPM)	80K	RUGS Fund UPM
7.	1 January 2012-31 December 2013	Improving the Compatibility of Ethylene Vinyl Acetate, EVA/ waste tire dust, WTD blends	Dr. Chantara Thevy Ratnam (Malaysia Nuclear Agency)	92K	FRGS, MOHE
8.	1 January 2013 -31 December 2014	Development of Pultruded Green hybride Typha Latifolia/Recycled Polyethyleneterephthalate Composites	Dr. Maizatunisa Binti Othman (International Islamic University Malaysia)	50K	RAGS, MOHE

9.	1 Sept 2012 - 31 August 2014	Quaternization of Palm Kernal Shell for Removal of Dye from Aqueous Solution	Prof. Dr. Thomas Choong SY (UPM)	55K	RUGS Fund UPM
10.	1 July 2011- 30 June 2014	Recalcitrance of Biochar on Tropical Peat and Acid Mineral Soils	Assoc Prof. Dr. Ahmad Husni Bin Mohd Haniff (UPM)	102K	FRGS, MOHE
11.	1 April 2013- 31 March 2015	The synthesis and mechanism of novel catalysts for carbon dioxide dry reforming of glycerol for syngas production using noble metal-based catalysts supported on oxides	Dr. Sumaiya Zainal Abidin @ Murad (UMP)	92.3K	FRGS, MOHE
12.	1 December 2013- 30 November 2015	Ordered Mesoporous Carbon Monolith via Triblock Copolymer- Template: Synthesis and Mechanism	Prof. Dr. Thomas Choong SY (UPM)	90K	FRGS, MOHE
13.	1 April 2013 - 31 March 2016	The synthesis and mechanism of novel catalysts for carbon dioxide dry reforming of glycerol for syngas production using noble metal based catalysts supported on oxides.	Prof. Dr. Thomas Choong SY (UPM)	92.3K	FRGS, MOHE
14.	2014-2016	Development of Maleinised Acrylate Epoxidised Jatropha Oil as Anti Corrosion and Surface Coating Application Using UV irradiation technique	Dr. Aisyhah @Min Min Aung (UPM)	120.23K	Science Fund, MOSTI
15.	1 Sept 2014- 31 August 2016	Maximising retention of bio- active ingredients in processed herbs (Misai Kuching, Belalai Gajah and Roselle) in industrial scale herbs processing facility	Prof Dr. Law Chong Lim (Nottingham University Malaysia Campus)	374K	NRGS, MOA

16.	1 February 2016-31 January 2018	Optimization, scaling up and establishment of herbal processing technology for the production of chemical marker extract from Piper Betle L. (sireh) , Piper Sarmentosum (kaduk), Gynura Procumbens (sambung nyawa ) and Melastoma malabathrium L. (senduduk	Prof. Ramlan Aziz (UTM)	280K	NRGS, MOA
17.	1 November 2016- 31 October 2018	A low temperature spray drying assisted by supercritical carbon dioxide method for microencapsulation of Hempedu bumi (Andrographis paniculata) as a food ingredient	Assoc. Prof. Dr. Chong Gun Hean (UPM)	RM 117K	FRGS, MOE
18.	1 August 2016-31 July 2018	Synthesis of polar hyper-crosslinked microspheres of poly(acrylonitrile-co-divinylbenzene-co-vinylbenzylchloride) as sorbents in solid phase extraction of pharmaceutical residues from domestic wastewater	Dr. Siti Nurul Ain Binti Md. Jamil (UPM)	RM82.7K	FRGS, MOHE
19	15/08/2017-14/08/2019	Prototype Development, Fabrication and Testing of a Bionanocomposite Packaging film Produced Using Blown Extruder Technology	A.P. Dr. Ching Yern Chee (UM)	146K	PRGS, MOHE
20.	15/08/2017-14/08/2019	Synthesis and Characterizations of Biobased Polyols Produced by Various Ring Opening Reactions of Epoxidized Vegetable Oil	Dr. Sariah Saalah (UMS)	86 K	FRGS, MOHE
21.	1/09/2019-31/08/2021	Mechanism study of lignin extraction using Deep Eutectic Solvents from oil palm empty fruit bunch for potential aromatic chemicals production	A.P. Dr. Ngoh Gek Cheng (UM)	104.84K	FRGS, MOE

22.	1/01/2019-31/12/2021	Synthesis and characterizations of self-healing Jatropha polyurethane using microcapsule technique	Dr. Mek Zak (Nuclear Malaysia)	82.30K	FRGS, MOE
23.	1/01/2019-31/12/2020	Extraction Mechanism of Virgin Coconut oil from Solid Coconut Waste using Microwave-Assisted Extraction	A.P. Dr. Sarina Sulaiman (IIUM)	63K	FRGS, MOE
24.	1/12/2019-30/11/2021	Production of biochar seed ball for sowing seeds on difficult terrain	Dr. Rafeah Wahi (UNIMAS)	70K	PRGS, MOE
25.	01/01/2019-31/12/2020	Cell-material interaction of bacterial cellulose pellicle and wounds in healing process.	Dr. Rohana Binti Abu (UMP)	81K	FRGS, MOE
26.	1/11/2020-31/10/2022	Population Balance Modelling Of Nano Calcium Peroxide Synthesis With Controllable Particle Size Distribution Via Homogeneous Precipitation With Urea	Prof Dr. Thomas SY Choong (UPM)	87.54K	FRGS, MOHE
27.	1/11/2020-31/10/2022	Investigation of the ion diffusion and kinetic properties of gellan gum-based biopolymer electrolytes for lithium polymer batteries	Dr. Ikhwan Syafiq bin Mohd Noor (UPM)	109.52	FRGS, MOHE

#### D) Ongoing Projects and Grants (As Project Member)

No.	Year	Topic		Amount (RM)	Sponsor
1.	1/11/2020-31/10/2023	Study of the pseudo-ternary natural-deep-eutectic-solvent-based aqueous two-phase system (NADES-ATPS): phase equilibria and partitioning behavior of anthocyanin	Dr. Tee Lee Hong (Taylor University)	99.8K	FRGS, MOHE

2.	01/11/2020 - 31/10/2023	Study of the pseudo-ternary Natural-Deep-Eutectic-Solvent-Based Aqueous Two-Phase System (NADES-ATPS): Phase Equilibria and partitioning behavior of Anthocyanin	Dr. Tee Lee Hong, Taylor University	99,800	FRGS, MOHE
3.	1 /4/2021- 30/9/2023	Synthesis and characterization on Nano Calcium Peroxide for Pollutant Removal	Prof Dr. Thomas SY Choong (UPM)	100K	GPB, UPM
4.	1/8/ 2021- 30/7/2023	Fire Resistant and Water Repellent Tannin- Furanic- Fatty Acids Biofoams	Dr. Umi Hani Abdullah	10,000 Eur/ RM 50,000	Malaysia- France Bilateral Research Collaboration
5.	1/9/2022- 31/8/2025	Mechanism of Solute-Solvent Interaction and Extraction Kinetics of Carnotic Acid, Carnosol and Rosmarinic Acid Prevailing in Tunable Hydrophobic-Hydrophilic Deep Eutectic Solvent System	Dr. Chua Bee Lin	154.16 K	FRGS, MOHE
6.	1/9/2022- 31/8/2024	Elucidating mechanistic insight of phenolic-rich extract purification using hydrophobic nanostructure 3D-graphene oxide framework	Dr. Mohd Azahar Bin Mohd Ariff (UiTM, P. Pinang)	107.41 K	FRGS, MOHE
7.	1/9/2022- 31/8/2024	Heterogeneous Fenton Chemistry: Mechanisms of Degradation Kinetics of Plastic Pollutants by the Interaction Between Iron Bearing Soil Minerals and Glutathione in Soil and Groundwater	Assoc. Prof. Ir. Dr. Amnorzahira (UiTM, Shah Alam)	102.5K	FRGS, MOHE

*Research  
Products &  
Awards*

### 3. RESEARCH PRODUCTS & AWARDS

#### Intellectual Properties at a Glance:

**Patents:** 10 Filed and 5 Granted

**Industrial Design:** 1 granted

**Trademark:** 1 granted

#### 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. Method and Composition for Making Mesoporous Carbon Coated Monolith, 2012. **Patent filing**, PI2012001326.
5. Radiation Cross-Linkable Polymer Blend. 2013. **Patent filing**, PI 2013000336
6. Composition comprising Phaleria leaf extract having anti-cancer activity. 2013. **Patent filing**, PI2013701953
7. Modified Epoxidized Natural Rubber Latex. 2014. **Patent filing**, PI2014701065.
8. Method of Preparing Biosorbent and Biosorbent for Removal of Endocrine Disrupting Compounds and Heavy Metals. 2018. **Patent filing**, PI2018002857
9. A process for purifying methyl ester sulphonate (MES). 2019. **Patent filing**. PI2019005429.
10. Biochar derived seed ball for sowing plant seed. 2021. **Patent filing**. UI 2021003762.

#### 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.

4. Synthesis of Nanometer-sized Ceramic Particle, 2020. **Patent Granted**. MY-177811-A.
5. Cellulosic Biomass Filter Bed for Removal of Oil and Grease from an Oil and Grease Suspension. 2023. **Patent Granted**. MY195747-A.

#### C. **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.

#### D. **Trademark**

1. **Trademark-PUTEX** for Building Materials Using Palm Oil Based Fatty Acids as Phase Change Material (PCM), TM no: 2010022415 (**Granted**), 2010.

#### **Honours/ Recognitions**

1. Selected as a **World Top 2% Scientists (Career-Long Citation Indexed)**, Stanford University, USA, 2021.
2. Selected as a **World Top 2% Scientists (Citation Impact in Single Calendar Year, 2021)**, Stanford University, USA.
3. Selected as a **World Top 2% Scientists (Career-Long Citation Indexed)**, Stanford University, USA, 2019.
4. Selected as a **World Top 2% Scientists (Citation Impact in Single Calendar Year, 2019)**, Stanford University, USA.
5. **Malaysia Rising Star Award** by Ministry of Higher Education, Malaysia, 2015.
6. Selected as **Top 1% Globally Most Cited Researcher** (Cluster: Chemistry) by Thomson Reuters, 2015.
7. **Top Research Scientists Malaysia (TRSM) Award** by Academic Science Malaysia, 2013.
8. Awarded **5 Stars and Role Model Supervisors in Universiti Putra Malaysia**. School of Graduate Studies, UPM, 2013.
9. **Best Paper Award on Acoustic & Thermal Properties Track**. 1<sup>st</sup> International Conference on Food Properties (iCFP2014), Kuala Lumpur.

10. **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.
11. **Raja Tan Sri Zainal Prize for 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.
12. **Young Engineer Award 2006**, Institution of Engineers Malaysia (IEM), 2006.

## 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 Arcylate Coatings Derived from Vegetable Oil Based Polyol. International, Invention, Innovation and Design Competition (IID Johor 2017). 2017. UiTM, Malaysia.
5. **Silver Medal**. Different Types of Carbon Nanomaterials and Graphene as Adsorption Phase in Solid Phase Extraction Method. International, Invention, Innovation and Design Competition (IID Johor 2017). 2017. UiTM, Malaysia.
6. **Bronze Medal**. Different Types of Carbon Nanomaterials and Graphene on Carbon Fiber: Synthesis and Application in Polymer Composite. International, Invention, Innovation and Design Competition (IID Johor 2017). 2017. UiTM, Malaysia.
7. **Bronze Medal**. Quarternized 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.** Waterbone Polyurethane Coating Derived from Vegetable Oil based Polyol. International Engineering Invention & Innovation Exhibition (i-ENVEX) 2014, UNIMAP, Malaysia.
12. **Gold Medal.** Optical Sensor for Heavy Metal Detection Based on Chitosan. Innovation Industrial Design and Technology Exhibition (I-TEX 2013), 2013, MINDS, Kuala Lumpur, Malaysia.
13. **Gold Medal,** 'Treatment of oilfield produced water with isolated tropical hypersaline microorganisms in membrane bioreactor for recycle and beneficial reuse', British Invention Show (BIS) 2009, London, UK.
14. **3rd Prize** in the Competition for the Best Poster: Zdenek 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.** Potential of Jatropa Oil and Its Derivatives as an Ultraviolet Curable Self-Healing Coating. Final Year Project & Postgraduate: Research & Innovation Poster Competition (RIPC). Virtual participation. MNNF Network, 25 February 2023.
2. **Gold Medal.** SIREM- Simultaneous Removal of Containment Using Modified Polymer. Virtual Innovation Competition 2021 (VIC21). Association of Information Scientists (AIS), Digital Information Interest Group (DIGIT),

Research, Industry & Alumni Division, Universiti Teknologi MARA Kelantan, MALAYSIA, and Society of Information System Management (SISMA). 2021.

3. **Bronze Medal.** Magic Poly Bead: New Alternative for Heavy Metals and Dyes Removal. First Science Innovation Exhibition 2020. UiTM, Malaysia.
4. **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.
5. **Silver Medal.** Biobased Waterborne Polyurethane Dispersion from Vegetable Oil. Pereka 2019. University Malaysia Sabah, Malaysia.
6. **Bronze Medal.** Green Catalyst for Biodiesel Production. Technology Preview & Showcase Program 2018. Malaysian Nuclear Agency. Kajang, Selangor. 30 October -2 November 2018.
7. **Bronze Medal.** Assymetic HDPE/PANI and CNT Electrodes for Hybrid Pseudocapacitor. Malaysia Technology Expo (MTE 2017), Kuala Lumpur, 2017.
8. **Gold Medal.** SagoZorb 2.0: Biomass Filter Bed for Oil and Grease Removal. UNIMAS R& D Expo 2014, UNIMAS, Kota Samarahan, Sarawak.
9. **Bronze Medal.** High-Quality Nutraceutical Product from Orthosiphon stamineus. Malaysia Technology Expo (MTE 2014), Kuala Lumpur, 2014.
10. **Bronze Medal.** High Quality Nutraceutical Product from Orthosiphon Stamineus. Bioinnovation Awards 2013, Johor Bahru, 2013.
11. **Gold Medal.** Radicross Recycle Rubber for Diverse Sealing Application. Malaysia Technology Expo (MTE 2012), Kuala Lumpur, 2012.
12. **Silver Medal.** Building Products Having Phase Change Materials. Malaysia Technology Expo (MTE 2012), Kuala Lumpur, 2012.
13. **Bronze Medal,** Biomass Adsorbent. Bioinnovation Awards 2011, Kuala Lumpur, 2011.
14. **Silver Medal,** Radicross Recycle Rubber for Diverse Sealing Application. Rekacipta & Inovasi Nuklear Malaysia, 19-21 July 2011, Bangi, Selangor.
15. **Bronze Medal,** A Novel Biofiller for Biocomposite Applications. International Invention Innovation Industrial Design and Technology Exhibition (I-TEX 2011), Kuala Lumpur, 2011.

16. **Bronze Medal**, Polyolefin films modified with crude palm oil (CPO) for improved mechanical properties'. MalaysiaTechnology Expo (MTE 2011), Kuala Lumpur, 2011.
17. **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.
18. **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.
19. **Bronze Medal**, 'Hybrid Heat Pump Dryer', Malaysia Technology Expo (MTE 2009), Kuala Lumpur, 2009.
20. **Gold Medal**, 'Rigid Ceramic Filter for High Temperature Gas Cleaning Industrial Applications', Malaysia Technology Expo (MTE 2008), Kuala Lumpur, 2008.
21. **Silver Medal**, ' Cellulose based novel biocomposite'. International Invention Innovation Industrial Design and Technology Exhibition (I-TEX 2007), 2007.
22. **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.
23. **IEM Presidential Award of Excellence – Best Improved Technical Division-Chemical Engineering**, Institution of Engineers Malaysia (IEM), 2005.

iii) **UPM Level**

1. **Silver Medal**, ENGINEERING INNOVATION & EXHIBITION (EIE 2023), Fakulti Kejuruteraan, Universiti Putra Malaysia. 2023.
2. **Anugerah Khas Pensyarah Tahun 2016 (Kategori Professor)**. Fakulti Kejuruteraan, Universiti Putra Malaysia. 2017.
3. **Anugerah Kecermelangan Dalam Pengajaran 2016**. Fakulti Kejuruteraan, Universiti Putra Malaysia. 2017.
4. **Anugerah Penyelidikan Universiti 2016** (Kategori Individu: Kecermelangan dalam Penerbitan), Universiti Putra Malaysia. 2016.
5. **Gold Medal**. Different Types of Carbon Nanomaterials and Graphene as Adsorbent Phase in Solid Phase Extraction Methods. PRPi 2016, Universiti Putra Malaysia. 2016.

6. **Gold Medal.** Natural Adhesives from Acacia Mangium Bark Extracts Co-Polymerised with Phenol-Formaldehyde for Bonding Biocomposites. PRPi 2016, Universiti Putra Malaysia. 2016.
7. **Bronze Medal.** Quartenized Kenaf Fiber as Adsorbent Material. PRPi 2016, Universiti Putra Malaysia. 2016.
8. **Anugerah Penyelidik Cemerlang Tahun 2012** (Category Profesor), Fakulti Kejuruteraan, Universiti Putra Malaysia. 2012.
9. **Outstanding Performance and Services Award** (Professional and Management category), INTROP, UPM. 2009.
10. **Outstanding Performance and Services Award** (Professional and Management category), INTROP, UPM. 2008.
11. **Silver Medal.** Modeling biodegradation and kinetics of Glyphosate by artificial neural network. UPM Research and Innovation and Competition. 2012.
12. **Bronze Medal.** Anti-inflammatory Activity of the Major Compound from Methanol Extract of Phaleria macrocarpa Leaves. UPM Research and Innovation and Competition. 2012.
13. **Bronze Metal.** Removal of Heavy Metals from Steel Making Waste Water by Using Electric Arc Furnace Slag. UPM Research and Innovation and Competition. 2012.
14. **Bronze Medal.** Method and Composition for Masking Mesoporous carbon Coated Monolith. UPM Research and Innovation and Competition, 2012.
15. **Silver Metal.** Building Products Having Phase Change Materials. UPM Research and Innovation and Competition. 2011.
16. **Bronze Metal.** Modified Biomass Chemisorbent for Dyes Removal. UPM Research and Innovation and Competition. 2011.
17. **Gold Metal.** Water Resistance Paper Made from Malaysian Cultivated Kenaf Whole Stem Fibres. UPM Research and Innovation and Competition. 2011.
18. **Bronze Metal.** Writing and Printing Grade Paper from Kenaf-EFB Mixed Fibers. UPM Research and Innovation and Competition. 2011.
19. **Silver Metal.** Mesoporous Polymer Derived Activated Carbon Monolith. UPM Research and Innovation and Competition. 2011.

20. **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.
21. **Gold Metal.** Polyolefin films modified with crude palm oil (CPO) for improved mechanical properties. UPM Research and Innovation and Competition, 2009.
22. **Silver Metal.** MALDI TOF Mass Spectrometry of Acacia Mangium Polyflavonoid Tannins. UPM Research and Innovation and Competition. 2009.
23. **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.
24. **Silver Medal,** 'Treatment of Oilfield Produced water with Combined Biological/Membrane Processes'. UPM Research and Innovation and Competition. 2007.
25. **Silver Medal.** Method of Extracting Tannin from Bark of Acacia Mangium Trees for Biobased Adhesive. UPM Research and Innovation and Competition. 2007.
26. **Bronze Medal.** Extraction and Freeze-Drying of *Piper betel L.* Standardized Extract as Antioxidant. UPM Research and Innovation and Competition, 2007.
27. **Bronze Medal.** Rigid Ceramic Filter for High Temperature Gas Cleaning Industrial Applications. UPM Research and Innovation and Competition. 2007.
28. **Bronze Medal.** Cow Dung: A Potential Biofiller for Biocomposite Applications. UPM Research and Innovation and Competition. 2007.
29. **Gold Medal.** 'Bio-Cellulose Filled Biocomposite Thermoplastic', UPM Research and Innovation and Competition. 2006.
30. **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.
31. **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.
32. **Excellent Lectureship Award,** Faculty of Engineering, UPM. **2001.**

33. **Excellent Services Award, UPM, 2003.**
34. **Excellent Services Award, UPM, 2004.**
35. **Excellent Services Award, UPM, 2005.**
36. **Excellent Services Award, UPM, 2006.**
37. **Excellent Services Award, UPM, 2007.**
38. **Excellent Services Award, UPM, 2008.**
39. **Excellent Lectureship Award, Faculty of Engineering, 2008.**
40. **Excellent Services Award, INTROP, UPM, 2008.**
41. **Excellent Services Award, UPM, 2009.**
42. **Excellent Services Award, UPM, 2010.**
43. **Excellent Services Award, UPM, 2011.**
44. **Excellent Services Award, UPM, 2012.**
45. **Excellent Services Award, UPM, 2013.**
46. **Excellent Services Award, UPM, 2014.**
47. **Excellent Service Award, UPM, 2016.**
48. **Excellent Service Award, UPM, 2017.**
49. **Excellent Service Award, UPM, 2018.**
50. **Excellent Service Award, UPM, 2019.**
51. **Excellent Service Award, UPM, 2020.**
52. **Excellent Service Award, UPM, 2022.**

**(No Excellent Service Award for 2015 and 2021, due to sabbatical leave and no KPI was counted)**



*Publications*

## 4. PUBLICATIONS

- Journals: **453** articles published & accepted.
- Conference/ proceedings: > 190
  - H-index: 58 (SCOPUS); 53 (Google Scholar); 53 (Web of Science, Clarivate).
  - Total citations: 13, 927(Scopus); 12,428 (Google Scholar); 11, 719 (Web of Science, Clarivate).

### Cited Journals - Published/Accepted for Publications

#### Year 2024

1. Xiaoju Li, **Luqman Chuah Abdullah**, Shafreeza Sobri, Mohamad Syazarudin, Siti Aslina Hussain, Tan Poh Aun and Jinzhao Hu (2024). Variation characteristics and coordinated emission reduction of air pollutants in megacity of Chengdu-Chongqing economic circle under dual carbon goal. *Environmental Engineering Research*. 29(4), 230475, <https://doi.org/10.4491/eer.2023.475> (ISI/Scopus Cited, Impact Factor 3.5).
2. Xiaoju Li, **Luqman Chuah Abdullah**, Shafreeza Sobri, Mohamad Syazarudin, Siti Aslina Hussain, Tan Poh Aun and Jinzhao Hu (2024). Characteristics of air pollution variation and potential source contributions of typical megacities in the Sichuan Basin, Southwest China. *Air Quality, Atmosphere & Health*, 17, 641-660. <https://doi.org/10.1007/s11869-023-01466-2> (ISI/Scopus Cited, Impact Factor 5.1).
3. Shahril Mohamad, **Luqman Chuah Abdullah**, Saidatul Shima Jamari, Sharifah Fathiyah Sy Mohamad (2024). Lignin content analysis in oil palm frond juice base medium: Effect on bacterial cellulose production by *Acetobacter xylinum* 0416. *Cellulose*, 31, 1467–1479. (ISI/Scopus Cited, Impact Factor 5.7).
4. M. Habibi, M. N. Mobarakeh, A. Chamani, **L. C. Abdullah** & R. Zamani-Ahmadmoodi (2024). The efficiency of polyaluminum chloride and anionic polyacrylamide in removing the hot rolling steel factory effluent turbidity. *International Journal of Environmental Science and Technology*. 21, 2765–2772. (ISI/Scopus Cited, Impact Factor 3.1).
5. Dayang Nur Sakinah Musa, Mohd Zahirasri Mohd Tohir, **Luqman Chuah Abdullah**, Mohamad Syazaruddin Md Said, Muhammad Firdaus Sulaiman, Xinyan Huang (2023). Tropical forest reserve's peat properties adjacent to fire-break canal. *Journal of Forestry Research*, 35(1), article 29. (ISI/Scopus Cited, Impact Factor 3.0).

6. Nina Farhana Mohd Jamaludin, **Luqman Chuah Abdullah**, Syazwani Idrus, Nurul Sakinah Engliman, Jian Ping Tan, Nur Syakina Jamali (2024). Nickel-iron doped on granular activated carbon for efficient immobilization in biohydrogen production. *Bioresource Technology*, Volume 391, Part A, 129933. doi: <https://doi.org/10.1016/j.biortech.2023.129933>. (ISI/Scopus Cited, Impact Factor 11.4).
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57. Danna, B.M.A., Iyuke, S.E., Fakhrul-Razi, A., **Chuah T.G.**, Atieyh, A.M. & Al-Khatib, F.M. (2003) Synthesis and Characterisation of Carbon Nano-Structures for Methane Storage, Proceeding in 17<sup>th</sup> Symposium of Malaysian Chemical Engineers, Pulau Pinang, 29-30 December 2003.
58. **T.G. Chuah**, Thomas S.Y. Choong, Jolius Gimbun, Fakhrul-Razi A. and S. Barkawi (2003). Numerical Simulation of Three Way Catalytic Converter (TWCC) for NO<sub>x</sub> Abatement under Transient Isothermal Condition. Proceeding in 17<sup>th</sup> Symposium of Malaysian Chemical Engineers, Pulau Pinang, 29-30 December 2003.
59. **T.G. Chuah**, Thomas S.Y. Choong, Jolius Gimbun, Fakhrul-Razi A. and S. Barkawi (2003). Numerical Simulation of Three Way Catalytic Converter (TWCC) for CO and NO<sub>x</sub> Abatement under Transient Isothermal Condition. Proceeding in Malaysian Science and Technology Congress 2003 (MSTC 2003). 23-25 September 2003, Kuala Lumpur.
60. El-Harbawi M., Mustapha S., Idris A., **Chuah T. G.**, and A. T. Jameel (2002). Nonlinear Stability, Rupture and Morphology of Thin Liquid Films On Solid Surface, in Proceeding of Malaysian Science and Technology Congress 2002, Johor Bahru, Malaysia.
61. **T. G. Chuah**, C. J. Withers, A. S. Burbidge and J. P. K. Seville (2001). "Numerical Modelling of Reverse Pulse Cleaning using Ceramic Filters". Proceeding in 15<sup>th</sup> Symposium of Malaysian Chemical Engineers, Universiti Teknologi Malaysia, Skudai, Johor, 11-12 September 2001.
62. **T. G., Chuah**, C. S., Wong, Abdul Aziz, B.B., Abd, Mutalib I. (1996) "Solvent Recovery System (of an Azeotropic Mixtures) Using Salt-Added Batch Distillation Process", SOMCE 96, 9-10 July 1996, UKM, Bangi, Malaysia.

## Books/Edited Books/Edited Proceedings/Book Chapters

### A) Books/Edited Books

1. Ghufran R., **Chuah T. G.**, Thomas Chooong S. Y., Wan Ramli, W. D. Aiman Abdalla A. S. (2003) Air Pollution. MUCED-I&UA, Universiti Malaya, Kuala Lumpur, ISBN 983-2904-01-3.

2. Wan Ramli Wan Daud, Mohd Sobri Takriff, Siti Masrinda Tasirin, Ezzat Chan Abdullah, Ahmad Kamal Ariffin, Abdul Wahab Mohammad, Andanastuti Muchtar, Shahrir Abdullah, **Chuah Teong Guan**, Nornizar Anuar dan Noorhisham Tan Kofli (eds). (2003). Prosiding The 2<sup>nd</sup> Asian Particle Technology Symposium, Vol 1 dan 2, Fakulti Kejuruteraan UKM. ISBN 983 – 2982 – 01- 4.
3. Fakhurul-Razi, A., **Chuah T. G.**, M. Halim S. I. (2005). Safety: Principles and Practices in Laboratory, UPM Press, ISBN 983-2871-82-8.
4. Siti Mazlina Mustapa Kamal, Shafreeza Sobri, Siti aslina Hussain, Yus Aniza Yusof, Chin Nyuk Ling, Farah Saleena Taip, Suraya Abdul Rashid, **Luqman Chuah Abdullah** (2007), Editors. Proceedings of World Engineering Congress 2007: Food and Chemical Engineering Conference, August 5 -9, 2007, Penang, Malaysia, ISBN 978-983-41705-8-5.
5. Paridah M.T., **Luqman Chuah A.**, Wan Asma I., Ainun Zuriyati M.A., Anis M., Wan Hasamudin W.H. and Jalaluddin H. (2008). Utilisation of Oil Palm Tree: Strategizing for Commercial Exploitation. INTROP, Serdang, ISBN 978-983-44426-0-6.
6. Paridah T., **Luqman Chuah A.** and Norfayanti K. (editors) (2009). *Kenaf: Biocomposites, Derivatives and Economics*. INTROP, Pustaka Prinsip, Kuala Lumpur, ISBN 978-983-053-562-3.
7. **Luqman Chuah A.** and Mohd Halim Shah Ismail (2010). Hot Gas Cleaning: Particulate Removal and Desulphurization, UPM Press, ISBN 978-967-344-138-9.
8. Ahmad Ainuddin N., Ainun Zuriyati M. A., **Luqman Chuah A.**, Paridah M. T. (Eds) (2014). "Viable Bioresources for Future". INTROP UPM Press, ISBN 978-983-44426-1-3.
9. **Luqman Chuah Abdullah.** (2017). Rigid Ceramic Filters: Numerical Simulation of the Pressure and Velocity Distributions. Inaugural Lecture Series No.216. UPM Press. ISBN no. 9789673447008
10. **Luqman Chuah A.**, Gregory Koay F. L., Sumaiya Z. A. (2018). Dihydroxystearic Acid: Purification, Derivatives and Applications. UPM Press, ISBN 978-967-344-833-3.
11. **Luqman Chuah A.**, Pin Kar Yong, Tee Lee Hong, Noor Hadzuin Nik Hadzir (2019). Sirih (Piper Betle L.): Extraction and Drying Technology of Its Bioactive Components. UPM Press, ISBN 978-967-344-940-8.
12. Sara Yasina Yusof, **Luqman Chuah Abdullah**, Mohd. Rashid Mohd. Yusof, Lim Sun Fong (2022). Compositions and Sources Identification of Airborne Particulate Matter in Ambient Air Selected Case Studies in Malaysia. UPM Press, ISBN 978-967-2989-84-4.

## B) Book Chapters

1. MaryamDayang Nur Sakinah Musa, Mohd Zahirasri Mohd Tohir, **Luqman Chuah Abdullah**, Mohamad Syazaruddin Md Said, Muhammad Firdaus Sulaiman, Xinyan Huang (2022). Canal influence on peat properties at different fire frequency areas. In D. X. Viegas & L.M. Ribeiro (Ed.). *Advances in Forest Fire Research 2022*, Chapter 4, pp. 1029-133. University of Coimbra Press, Portugal. ISBN: 978-989-26-2297-2
2. 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
3. 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.
4. 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.
5. 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
6. 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. Chpater 5. In "Glyphosate: Chemistry, Uses and Safety Concerns". Nova Science Publishers, New York. ISBN: 978-1-53614-002-6.
7. 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.

8. 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
9. 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.
10. 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. 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.
12. 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.
13. 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.

14. **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.
15. 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.
16. 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.
17. 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.
18. 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.
19. 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.

#### Bulletin/Professional Magazines

1. **Luqman Chuah Abdullah** (2022). Aviation Jet Fuel: Challenges and Assessment of Biomass Conversion Pathway to Produce Sustainable Bio-Jet Fuel in Malaysia. Engineering Technology. Issue May-August 2022, 14-15.
2. **Luqman Chuah Abdullah** (2020). Implementation of Carbon Offsetting and Reduction Scheme for International Aviation (CORSA): Part 1. Engineering Technology. Issue May-June 2020, 12-17.

3. Syeed Saiful Azry, **Luqman Chuah Abdullah**, Paridah Md Tahir, Min Min Aung, Sariah Saalah (2018). Plant Oil-Based Polymer: *Jatropha Curcus*. *INTROPICA*. Issue 17, 10-11.
4. Sariah Saalah, **Luqman Chuah Abdullah**, Min Min Aung, Emiliana Rose Jusoh, Syeed Saiful Azry and Suhaini Mamat (2017). *Jatropha Oil in Spotlight for the Production of Bioresin & Sustainable Polymer*. *INTROPICA*. Issue 14, 4-7.
5. Ferial Gjaemi, **Luqman Chuah Abdullah**, Paridah Md Tahir, Hidayah Ariffin (2017). Natural Nanomaterials: Synthesis and Cytotoxicity Analysis. *INTROPICA*. Issue 14, 22-23.
6. Syeed Saiful Azry, **Luqman Chuah Abdullah**, Paridah Md Tahir (2016). Cellulose Characteristics: From Micro to Nano. *INTROPICA*. Issue 13, 18-20.
7. Mahnaz M. Abdi, Paridah Md. Tahir, **Chuah Teong Guan@Luqman Chuah bin Abdullah** (2015). Preparation and Characterization of Fibrous Cellulose/Polypyrrole Nanocomposites. *INTROPICA*. Issue 11, 14-15.
8. Seyed Mohammad Dara Ghsimi, **Luqman Chuah Abdullah** and Fakhru'l-Razi Ahmadun (2009). The Electrical Car: Solution to Energy Shortage and Air Pollution? *IMPAK*, 4/2009, 4-5.
9. **Luqman Chuah A.** and Kamarulzaman Ab. Ghani (2009). Clinical Waste Management in Malaysia. *IMPAK*, 3/2009, 8-9.
10. Fakhru'l-Razi Ahmadun, Alireza Pendashteh and **Luqman Chuah Abdullah** (2009). Produced Water from Oil and Gas Fields: Environmental Impacts and Treatment Technologies. *IMPAK*, 3/2009, 10-11.
11. **Chuah Teong Guan**, Fakhru'l-Razi Ahmadun and Azni Idris. (2009). Arsenic in Drinking Water: Toxicity, Health Hazards and Treatment Methods. *IMPAK*, 1/2009, 14-15.
12. **Luqman Chuah A.**, Fakhru'l-Razi and Nor Mariah A. (2009). Mini Hydro Power Generation as a Renewable Energy Source under Malaysia Energy Policy. *Ingenieur (BEM Bulletin)*, 2009, vol. 44 (4), 37-46.
13. Khalid, M., **Luqman Chuah A.**, Jalaludin Harun and Thomas S. Y. Choong (2008). Natural Fibres: The New Fashion of Modern Plastics Products. *JURUTERA* 8, 11-14.
14. **Chuah T.G.**, Saidatul Shima Jamari. and Fakhru'l Razi A. (2007). Deforestation: A Cause of Global Warming? *IMPAK*, 2/2007, 7.

15. Fakhru'l-Razi A., El-Mahdi A.H. and **Luqman Chuah A.** (2006). State of the Art of Bio-Hydrogen Production from Biomass. *JURUTERA*, 11, 8-14.
16. **Chuah T.G.**, Rozanna D., Salmiah A., Thomas Choong S.Y. And Sa'ari M. (2006). Fatty Acids Used as Phase Change Materials (PCMs) For Thermal Energy Storage in Building Material Applications. *JURUTERA*, 7, 8-15.
17. Jolius Gimbun, **T.G. Chuah**, Thomas S. Y. Choong, A. Fakhru'l-Razi, S. Barkawi (2005). Modelling of Catalytic Converter in CNGV Cold-Start Engine. *Advanced Technology*, vol. 3 no. 1, 14-17.
18. **Chuah T. G.** (SHE Editorial Board Editor). Safety Bulletin, Faculty of Engineering, UPM, Penerbit UPM, Issue 1, 2004.
19. **Chuah T. G.** (2003) Biofilters for Hydrogen Sulfide Odor Control, *IMPAK*, 3/2003, 15-16.
20. **T. G. Chuah** and I. Azni (2003). "Biomass: Renewable Energy Sources in Malaysia", *IMPAK*, 2/2003, 15-16.
21. **Chuah T. G.** (2003). Application of Ceramic Filters in High Temperature Gas Cleaning. *Buletin Ingenieur*, vol. 19, 51-52.
22. **Chuah T.G.**, Azni I. and Fakhru'l Razi A. (2003). Medical Waste Treatment Technologies: Incineration and other alternatives. *Buletin Ingenieur*, vol.20, 20-24.
23. **Chuah T. G.** (2003) Biomass as the Renewable Energy Sources in Malaysia, *Buletin Ingenieur*, vol.20, 50-52.
24. G. Jolius, B.T. Tey, **T.G. Chuah** (2003) Bioreactor Design via Spreadsheet, *JURUTERA*, 4, 18-25.
25. C.S. Wong, **Chuah, T.G.**, Abdul Aziz, B., Abdul Mutalib, I. (1997). Solvent Recovery System of an Azeotropic Mixtures Using Salt-added Batch Distillation Process, *IEM Bulletin*, 4, 42-47.

## *Appointments*

## 5. APPOINTMENTS

### Appointments of Governmental Agencies

1. **Deputy Head of Cluster** (Environment and Natural Resources). Majlis Profesor Negara. 2023-2024.
2. **Lead Assessor**. Master Science in Process Safety (Coursework), Universiti Teknologi Petronas Malaysia, 2023.
3. **Lead Assessor**. Malaysian Qualifications Agency (MQA) Evaluation on Doctorate Program of Engineering Trades. Heriot-Watt University Malaysia, Putrajaya. 2023.
4. **Assessor Panel**. Master Science in Process Safety (ODL Programme), Universiti Teknologi Petronas Malaysia, 2022.
5. **MQA Panel of Assessment**. PhD Programme in Chemical Engineering, Xiamen University Malaysia, 2021.
6. **MQA Panel of Assessment**. Master of Science Programme in Chemical Engineering, Xiamen University Malaysia, 2021.
7. **External Assessor Panel**. Master of Sustainability and Environmental Science, Universiti Teknologi Malaysia, 2020.
8. **Expert Reference**. Field Evaluation MYCITE Journals and Journal Recommendation to ASEAN CITATION INDEX (ACI) for years 2021-2024, Ministry of Higher Education Malaysia.
9. **MQA Panel of Assessment**. PhD Programme in Chemical Engineering, (Preliminary Assessment), Xiamen University Malaysia, 2019.
10. **MQA Panel of Assessment**. Master Science in Chemical Engineering (Preliminary Assessment), Xiamen University Malaysia, 2019.
11. **Lead Assessor, MQA Panel of Assessment**. Master Science in Process Safety (Coursework), Universiti Teknologi Petronas Malaysia, 2018.
12. **Fasilitator Program**. Program Diploma Kejuruteraan Alam Sekitar (DAS). Politeknik Sultan Idris Shah (PSIS), Sungai Air Tawar, Perak. 2018.

13. **Working Committee.** Improved National Action Plan for Haze. Department of Environment. Ministry of Natural Resources & Environment, Malaysia. 2017.
14. **National Committee Member.** Processing Technology Cluster under NKEA Agricultural Subsector Herb EPP#1, Ministry of Agriculture (MOA). 2015-16.
15. **MQA Panel of Assessment** for Master Science in Chemical Engineering, SEGi University, 2016.
16. **Chairman of MQA Evaluation Panel** for Master Science in Process Safety (MQA/PA 7662), Universiti Teknologi Petronas (UTP), 2015.
17. **Panel of Assessment** for MQA Audit and Accreditation of Master Program at Institute of Fuel Cell, Universiti Kebangsaan Malaysia, 5-6 March 2015.
18. **MQA Panel of Assessment** for Bachelor of Technology in Chemical Engineering, University College of Lincoln, 2014.
19. **Technical Committee.** MTIB Glulam Gallery Composite Floor Project, Johor Bahru, Malaysian Timber Industrial Board (MTIB), 2012-2013.
20. **Malaysian Qualifications Agency (MQA) Evaluation Panel.** “Sarjana Muda Teknologi (Kejuruteraan Kimia (Kepujian) Alam Sekitar (KA 7547)”, Universiti Kuala Lumpur-MICET (UniKL-MICET), Alor Gajah, Melaka, 2010.
21. **Malaysian Qualifications Agency (MQA) Evaluation Panel.** “Diploma dalam (Kejuruteraan Kimia) Alam Sekitar (A 10856)”, Universiti Kuala Lumpur-MICET (UniKL-MICET), Alor Gajah, Melaka, 2010.
22. **Malaysian Qualifications Agency (MQA) Evaluation Panel.** “Master of Engineering (Petroleum Engineering) (APA 0223), Universiti Teknologi Malaysia (UTM), 2009.
23. **Malaysian Qualifications Agency (MQA) Evaluation Panel.** “Master of Engineering (Bioprocess) (APA 0224), Universiti Teknologi Malaysia (UTM), June 2009.
24. **Malaysian Qualifications Agency (MQA) Evaluation Panel.** “Diploma in Good Manufacturing Practice” proposed by Management and Science University (MSU), 2009.
25. **National Committee.** Working Group on Health Safety & Environmental Aspects of Nanotechnologies (ISO/TC 229), 2007-current.

### Task Forces at National University Level (External)

1. **Member of Board of Studies (BOS).** Bachelor of Engineering (Biotechnology Engineering), International Islamic University Malaysia. 2019-2021.
2. **University Associate.** Curtin University Malaysia, 2018-2020.
3. **Programme Advisory Panel.** Bachelor of Chemical Engineering. Tunku Abdul Rahman College University. 2017.
4. **Advisory Panel.** Master Program of Safety, Health and Environment, University of Malaya, 2013-2017.
5. **Expert Referee** on promotion to Associate Professor for Academic Staff Faculty of Engineering and Build Environment, UKM. (Pakar Bidang Luar UKM), 2017.
6. **High Impact Research (HIR) Icon** to the University of Malaya, 2015.
7. **Research Fellow.** Centre of Excellence Industrial Biotechnology (ICoE), Universiti Malaysia Pahang, 2014-2015.
8. **Industrial Advisory Panel** for Master Program of Safety, Health and Environment, Faculty of Engineering, University of Malaya, 2015.
9. **Committee Member of Expert References** for Promotion to Associate Professor (DS54) at Institute of Fuel Cell, Universiti Kebangsaan Malaysia (UKM), 2013.
10. **Advisory Board Member.** Malaysia Journal of Chemical Engineering, Universiti Teknologi MARA (UiTM), 2007-2008.
11. **Researcher Associate.** CNG/DI program by Professor Dr. Masjuki Hj. Hassan Universiti Malaya (IRPA 03-02-03-0000-PR0030/10-07), 2004-2007.

### Task Forces at University Level (Internal-UPM)

1. **Panel Committee.** Anugerah Fellowship Naib Canselor-Kategori Pengajaran 2022 (AFNC-KP2022), UPM. 2023.

2. **Panel Committee.** Intellectual Properties (Resource Person), Putra Science Park, UPM. 2023.
3. **Panel Committee.** Intellectual Properties Evaluation, Putra Science Park, Universiti Putra Malaysia, 2022.
4. **Panel Committee.** Intellectual Properties Evaluation, Putra Science Park, Universiti Putra Malaysia, 2021.
5. **Evaluation Committee.** Intellectual Properties (Resource Person), Putra Science Park, UPM. 2018-2020.
6. **Panel Committee** for UPM Student Presentation in Seminar/Conference, School of Graduate Studies, UPM, 2017.
7. **Deputy Dean**, School Graduated Studies, UPM, 2012-2014.
8. **Evaluation Panel.** Management Work PTK Series 2/2010 for Research Officer (Q41), 11 Oct 2010.
9. **Host Supervisor of Fulbright US Research Student**, Mr. Salem Ghandour, University of Michigan, Ann Arbor, MI., August 2008- April 2009. International.
10. **Technical Committee.** Wood and Sago for Two Way Co-operation Dialog of KPPK-UPM, 2008.
11. **Department Representative.** Department of Chemical and Environmental Engineering, UPM, Star Education Fair, 2005, 8 - 9 January 2005.

#### Task Forces at Faculty/ Institution Level in UPM

1. **Coordinator.** Publication Unit, INTROP, UPM, 2020-2021.
2. **Research Associate.** ITMA, 2020-2021.
3. **Panel.** Bengkel Pemantapan dan Integrasi Proposal (Sesi 1- Kluster Tech & Eng dan ICT), 23 October 2019.
4. **Evaluation Committee for Commercialization.** Faculty of Engineering, UPM, 2018-2019.

5. **Committee (Resource Person).** Intellectual Properties Evaluation. Putra Science Park, UPM. 2018-2020.
6. **Member.** INTROP-UNIDO Kenaf Technology Development Project. Lead member in geotextile production, INTROP, UPM, 2011- 2013.
7. **Head of Program** (Biopolymer and Derivatives), Laboratory of Biopolymer and Derivatives, INTROP, 2012-2014.
8. **Research Committee,** INTROP, 2011-2012.
9. **Management Committee,** INTROP, 2011-2012.
10. **Graduate Studies Committee,** INTROP, 2011-2012.
11. **Chairman (Publication),** Committees of ICT, Seminar, Exhibition, Promotion, INTROP, 2011-2012.
12. **Chairman,** Committee of Training and Professional Services, INTROP, 2011-2012.
13. **Facilitating Officer.** of King Mongkut University of Technology, Thonburi, Thailand (KMUTT) visits to Faculty of Engineering, UPM, 19-22 January 2011.
14. **Working Committee** on Laboratory Management, (JKJK), INTROP, UPM, 2010-2011.
15. **Deputy Chairman** on Committee of Safety, Health and Environment at Workplace, INTROP, UPM, 2009-2010.
16. **Safety and Health Working Committee,** INTROP, UPM, 2009-2011.
17. **Head of Program** (Pollution Control), Lab 4- Laboratory of Biopolymer and Derivatives, INTROP, UPM, 2008-2011.
18. **Training Coordinator,** INTROP, UPM, 2008-2009.
19. **Program Advisor,** Safety at Workplace Workshop II, INTROP, UPM, 7 August 2008.
20. **Program Advisor,** Safety at Workplace Workshop II, INTROP, UPM, 19 March 2008.
21. **Quality Assurance Working Committee,** INTROP, UPM, 2008-2011.
22. **Head of RU Performance Evaluation Committee,** INTROP, UPM, 2007.

23. **Head of Laboratory**, Laboratory of Biopolymer and Derivatives, INTROP, 2006-2011 (post equivalent to Head of Department).
24. **Research Associate**, Agriculture and Food Mechanisation and Automation (AGROMAC), ITMA, UPM, 2006.
25. **OSH Committees**, Faculty of Engineering, Universiti Putra Malaysia, 2005-2006.
26. **Committee of HRD Unit**, Faculty of Engineering, UPM, 2004.
27. **Internal Auditor**, ISO 9000:2000, Faculty of Engineering, UPM, 2004-2006.
28. **Working Committee** for Workshop of “Anugerah Kualiti Perdana Menteri”, Faculty of Engineering, UPM, 2004.
29. **Head of Safety, Health and Environment Unit**, Faculty of Engineering, Universiti Putra Malaysia, 2003-2004.
30. **Research Associate**, ITMA, UPM, 2003-2007.

#### Task Forces at Departmental Level

1. **Working Committee**. 2<sup>nd</sup> MSKK Postgraduate Symposium. UPM, 21 February 2022.
2. **Working Committee**. MSc Programs on Environmental Engineering and Environmental Technology Management, Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM, 2008-current.
3. **Coordinator**, Students Affairs and Alumni (HEPA), Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM, 2007-2008.
4. **Industrial Training Coordinator** of Undergraduate Programme, Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM, 2003-2006.
5. **Department Library Representative**, Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM, 2002-2004.

6. **Advisor** for Chemical Engineering Student Society (ChESS), Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM 2002-2010.
7. **Academic Adviser** for Undergraduate Students, Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM, 2000-current.
8. **Head of Process Unit**, Department of Chemical and Environmental Engineering, Faculty of Engineering, UPM, 2004-06.

### Task Forces of Professional Bodies

1. **Library Chairman**, Institution of Engineers, Malaysia (IEM), 2005-2009.
2. **Library Committee**, Institution of Engineers, Malaysia (IEM), 2009-2010.
3. **Publication Committee**, Institution of Engineers, Malaysia (IEM), 2005-2009.

### Conference/ Workshop Committee Members

1. **International Advisory Board Member**. The 5<sup>th</sup> Int. Symposium of Food, Vegetable and Fruits 2023 (ISFVF 2023). Nottingham University Malaysia, Kuala Lumpur, 22-23 June 2023.
2. **Conference Committee**. 1st International Conference on Innovation in Chemical Engineering and Technology (ICICET 2021)
3. **Advisory Committee Member**. The 6<sup>th</sup> International Conference of Biotechnology Engineering 2021 (ICBioE 2021), 22-23 June 2021, Kuala Lumpur.
4. **Advisory Committee**. 8th International Forum on Industrial Bioprocessing (IBA-IFIBiop 2019), IBA-IFIBIOP 2019, Miri, Sarawak, Malaysia, 1-5 May 2019.
5. **Technical Committee**. MPOB International Palm Oil Congress 2019. Kuala Lumpur, 19-21 November 2019.
6. **Advisory Committee**. 5<sup>th</sup> International Conference of Biotechnology Engineering 2016 (ICBioE 2018), IIUM, 19-20 September 2018.

7. **Organizing Committee.** Symposium of Advanced Materials and Nanotechnology (SAMN 2018), ITMA, UPM, 2018.
8. **Program Committee Members.** The International Conference on Sustainable Energy and Environment Sensing, 2–3 April 2018, Cambridge City, United Kingdom.
9. **Scientific Committee.** The 4<sup>th</sup> International Conference of Chemical Engineering and Industrial Biotechnology 2018 (ICCEIB 2018). Kuala Lumpur, Malaysia. 1-2 August 2018.
10. **Organizing Committee.** Green Chemistry Meeting (Greenchem 2018), Tokyo, Japan 7-8 May 2018.
11. **Technical Committee.** 2nd International Conference on Innovative Engineering Materials (ICIEM 2017), Philadelphia, USA, 21-23 October 2017.
12. **Scientific Committee.** Wood and Biofiber International Conference 2017 (WOBIC2017). Putrajaya, Malaysia. 21-13 November 2017.
13. **Scientific Committee.** The 3<sup>rd</sup> International Conference of Chemical Engineering and Industrial Biotechnology 2016 (ICCEIB 2016). Malacca, Malaysia. 28-30 November 2016.
14. **Advisory Committee.** 4<sup>th</sup> International Conference of Biotechnology Engineering 2016 (ICBioE 2016), IIUM, 25-27 July 2016.
15. **International Advisory Panel.** International Symposium on Coating and Corrosion. Institute of Materials, Malaysia (IMM). 16-19 May 2016.
16. **Scientific Committee.** 29<sup>th</sup> Symposium of Malaysia Chemical Engineers (SOMChE 2016), Curtin University, Miri, Sarawak, 1-3 December 2016.
17. **Scientific Committee.** 3<sup>rd</sup> International Symposium on Processing of Foods, Vegetables and Fruits (ISPFVF '14), 11-13 August 2014, Kuala Lumpur.
18. **Scientific Committee.** The First Asian Conference on Chemical and Polymer Engineering (ACCPE'14). Kuala Lumpur.
19. **Technical Committee.** 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.
20. **Organizing Committee (Technical).** Symposium on Processing and Drying of Foods, Vegetables and Fruits', 11-12 April 2011, Kuala Lumpur.

21. **Organizing Committee (Technical).** International Conference on Kenaf and Allied Fibre 2009 (ICKAF 2009), 1-3 December 2009, Kuala Lumpur.
22. **Technical Advisor.** National Chemical Engineering Symposium 2008, Universiti Putra Malaysia, 2008.
23. **Deputy Chairman of Technical Committee.** The 7<sup>th</sup> National Oil Palm Trunk Utilization Conference, 2007.
24. **Secretary of Organizing Committee.** The 7<sup>th</sup> National Oil Palm Trunk Utilization Conference, 2007.
25. **Organizing Committee.** Symposium of Malaysia Chemical Engineers (SOMCHE 2007), UPM.
26. **Organizing Committee.** Food and Chemical Engineering Conference in World Engineering Congress 2007.
27. **Organizing Committee.** 11<sup>th</sup> Asia Pacific Chemical Engineering Congress (APPChE). 2006.
28. **Technical Committee.** Malaysian Young Chemical Engineers Symposium 2005 (MYChES 2005), KUKTEM Gambang, Kuantan, 1 - 2 December 2005.
29. **Organising Committee** for Automotive Technology 2005 (CoAT 2005), 6 - 10 December 2005, Putrajaya.
30. **Organizing Committee** of 1<sup>st</sup> National ChemE Car Contest, Institution of Engineers, 2004.
31. **Organizing Committee** of "Environmental, Health and Safety Legislation Awareness" Workshop with Perunding Good Earth Sdn Bhd. and Faculty of Engineering, UPM, 22 June 2004.
32. **Working Committee.** Anugerah Kualiti Perdana Menteri 2004 Workshop, Pan Pacific Hotel, KLIA, 26 - 29 July 2004.
33. **Organizing Committee.** Asia Particle Technology Conference (APT 2003). 2003.
34. **Organizing Committee** of Course of Health and Safety at Workplace Universiti Putra Malaysia, 20 - 21 August 2002.
35. **Organizing Committee** of Nanotechnology and Precision Engineering Workshop, Putrajaya, 8-9, August, 2001.

36. **Organising Committee** for IEM Postgraduate Students Essay Writing Competition 2004, Universiti Malaya, 21 August 2004.
37. **Conference Assistant** in 8<sup>th</sup> World Filtration Congress, Brighton, United Kingdom, 3-7 April, 2000.
38. **Conference Assistant** in 3<sup>rd</sup> World Congress on Particle Technology, Brighton, UK, 21-25 July 1998.

#### Conference/ Workshop Chairman

1. **Chairman of Plenary Session.** Wood and Biofiber International Conference 2019 (WOBIC 2019), Kota Kinabalu, Sabah, 3-5 December 2019.
2. **Chairman.** Workshop of Curable Polymers and Its Applications. INTROP, 25-26 April 2019.
3. **Conference Moderator.** Malaysia Global Chinese Muslim Conference 2019, Kuala Lumpur, 27 July 2019.
4. **Session Chairman.** Wood and Biofiber International Conference, 2017 (WOBIC 2017), Kuala Lumpur, 21<sup>st</sup> to 23<sup>rd</sup> November 2017.
5. **Section Chairman .** Symposium of Malaysia Chemical Engineers (SOMCHE 2007), UPM.
6. **Section Chairman.** Regional Conference of Young Chemists (RCYS) 2004, Universiti Sains Malaysia, P. Pinang, 13 - 14 April 2004.
7. **Chairman.** Professional Workshop "Fluidization", in conjunction with 3rd Asian Particle Technology Symposium, Penang, 16 December 2003.
8. **Section Chairman.** 3rd Asian Particle Technology Symposium, Penang 17 - 19 December 2003.
9. **Section Chairman.** 2nd World Engineering Congress, Kuching, Sarawak, Malaysia, 22nd-25th July 2002.

#### Professor / Associate Professor Promotion Assessor

**i) Promotion Evaluation for Promotion to Associate Professor (Overseas Universities)**

1. **External Assessor.** Dr. Nadavala Siva Kumar. King Saud University (KSU), 2022.
2. **External Assessor.** Dr. Emad N. El-Qada', Mu'tah University, Jordan, 2021.

**ii) Promotion Evaluation for Promotion to Professor Jusa B (VK06)**

1. **External Assessor.** Prof. Dr. Sharifah Rafidah Bt. Wan Alwi to Professor Jusa B (VK06), Universiti Teknologi Malaysia (UTM), 2021.

**iii) Promotion Evaluation for Promotion to Professor Jusa C (VK07),**

1. **External Assessor.** Associate Professor Dr. Mazura Binti Jusoh, Universiti Teknologi Malaysia (UTM), 2024.
2. **External Assessor.** Associate Professor Dr. Juhana binti Jaafar, Universiti Teknologi Malaysia (UTM), 2023.
3. **External Assessor.** Associate Professor Dr. Agus Arsad, Universiti Teknologi Malaysia (UTM), 2023.
4. **External Assessor.** Associate Professor Dr. Edy Herianto Majlan, Universiti Kebangsaan Malaysia (UKM), 2022.
5. **External Assessor.** Associate Professor Dr. Anwar Bin Johari, Universiti Teknologi Malaysia (UTM), 2021.
6. **External Assessor.** Associate Professor Dr. Mohd Azizi bin Che Yunus, Universiti Teknologi Malaysia (UTM), 2021.
7. **External Assessor.** Associate Professor Dr. Siti Hamidah binti Mohd Setapar, Malaysia - Japan International Institute of Technology (MJIT), Universiti Teknologi Malaysia (UTM), 2020.
8. **External Assessor.** Associate Professor Dr. Ma'an Fahmi Rashid Al-Khatib, International Islamic University Malaysia (IIUM), 2020.
9. **External Assessor.** Associate Professor Dr. Norasikin binti Othman, Universiti Teknologi Malaysia (UTM), 2020.
10. **External Assessor.** Associate Professor Dr. Chua Lee Suan, Universiti Teknologi Malaysia (UTM), 2020.

11. **External Assessor.** Assoc. Prof. Dr. Kamal Bin Yusoh, Universiti Malaysia Pahang (UMP), 2019.
12. **External Assessor.** Associate Professor Dr. Chu Chi Ming, Universiti Malaysia Sabah (UMS), 2018.
13. **External Assessor.** Associate Professor Dr. Coswald Stephen Sipaut @ Mohd Nasri, Universiti Malaysia Sabah (UMS), 2018.
14. **External Assessor.** Associate Professor Dr. Lee Chew Ting, Universiti Teknologi Malaysia (UTM), 2016.
15. **External Assessor.** Associate Professor Dr. Norazah Abd Rahman, Universiti Teknologi Mara Malaysia (UiTM), 2016.
16. **External Assessor.** Associate Professor Dr. Khairiah Badri, Universiti Kebangsaan Malaysia (UKM), 2015.
17. **External Assessor.** Associate Professor Dr. Mohammed Saedi Jami, International Islamic University Malaysia (IIUM), 2015.
18. **External Assessor.** Assoc. Prof. Dr. Maizirwan Mel, International Islamic University Malaysia (IIUM), 2014.
19. **External Assessor.** Assoc. Prof. Dr. Hayder A. Abdulbari, Universiti Malaysia Pahang (UMP), 2014.
20. **External Assessor.** Assoc. Prof. Dr. Siti Masrinda Tasirin, Universiti Kebangsaan Malaysia (UKM), 2013.
21. **External Assessor.** Assoc. Prof. Dr. Faridah Yusof, International Islamic University Malaysia (IIUM), 2012.

**iv) Promotion Evaluation for Promotion to Associate Professor**

1. **External Assessor.** Ts. Dr. Farah Naemah Binti Mohd Saad, Universiti Malaysia Perlis (UniMAP), 2024.
2. **External Assessor.** ChM. Dr. Mohd Firdaus Bin Abdul Wahab, Universiti Teknologi Malaysia, 2024.
3. **External Assessor.** Dr. Wong Tuck Whye, Universiti Teknologi Malaysia, 2024.
4. **External Assessor.** Dr. Md Munir Hayet Khan, INTI International University, 2024.

5. **External Assessor.** Dr. Azizul Azri bin Mustaffa, Universiti Teknologi Malaysia, 2023.
6. **External Assessor.** Dr. Siti Kholijah Binti Abdul Mudalip, Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA), 2023.
7. **External Assessor.** Dr. Hajar Binti Alias, Universiti Teknologi Malaysia (UTM), 2023.
8. **External Assessor.** Dr. Hasrinah Binti Hasbullah, Universiti Teknologi Malaysia (UTM), 2023.
9. **External Assessor for reappointment of AP (DS53).** Dr. Agus Arsad, Universiti Teknologi Malaysia (UTM), 2023.
10. **External Assessor.** Dr. Sani Amril Bin Shamsudin, Universiti Teknologi Malaysia (UTM), 2022.
11. **External Assessor.** Dr. Hairul Nazirah Abdul Halim, Universiti Malaysia Perlis (UniMAP), 2022.
12. **External Assessor.** Ir. Ts. Dr. Zaki Yamani bin Zakaria, Universiti Teknologi Malaysia (UTM), 2022.
13. **External Assessor.** Dr. Bhajan Lal, Universiti Teknologi Petronas (UTP), 2021.
14. **External Assessor.** Ir. Ts. Dr. Liew Peng Yen, Malaysia –Japan International Institute of Technology (MJIT), UTM, 2021.
15. **External Assessor.** Dr. Roshafima binti Rasit Ali, Malaysia–Japan International Institute of Technology (MJIT), UTM, 2021.
16. **External Assessor.** Dr. Teow Yeit Haan, Universiti Kebangsaan Malaysia (UKM), 2021.
17. **External Assessor.** Dr. Rafeah Binti Wahid, Universiti Sarawak Malaysia (UniMAS), 2021.
18. **External Assessor.** Dr. Kamyar Shameli, Malaysia - Japan International Institute of Technology (MJIT), Universiti Teknologi Malaysia (UTM), 2021.
19. **External Assessor.** Ts. Dr. Liang Yong Yeow, Universiti Malaysia Pahang (UMP), 2021.
20. **External Assessor.** Dr. Zarina Ab Mius, Universiti Teknologi Malaysia (UTM), 2020.

21. **External Assessor.** Dr. Ho Wai Shin, Universiti Teknologi Malaysia (UTM), 2019.
22. **External Assessor.** Dr. Irnis Azura Zakarya, Universiti Malaysia Perlis (UNIMAP), 2019.
23. **External Assessor.** Dr. Rohah Abdul Majid, Universiti Teknologi Malaysia (UTM), 2019.
24. **External Assessor.** Dr. Agus bin Arsad, Universiti Teknologi Malaysia (UTM), 2018.
25. **External Assessor.** Dr. Muhammad Abbas Bin Ahmad Zaini, Universiti Teknologi Malaysia (UTM), 2018.
26. **External Assessor.** Dr. Sumaiya Binti Zainal Abidin@Murad, Universiti Malaysia Pahang (UMP), 2018.
27. **External Assessor.** Dr Tuan Amran bin Tuan Abdullah, Universiti Teknologi Malaysia (UTM), 2018.
28. **External Assessor.** Dr. Lim Jeng Shiu, Universiti Teknologi Malaysia (UTM), 2017.
29. **External Assessor.** Dr. Norzita Ngadi, Universiti Teknologi Malaysia (UTM), 2017.
30. **External Assessor.** Dr. Mazura Jusoh, Universiti Teknologi Malaysia (UTM), 2017.
31. **External Assessor.** Dr. Fatmawati Binti Adam, Universiti Malaysia Pahang (UMP), 2016.
32. **External Assessor.** Dr. Noor Azilah Mohd Kasim. Universiti Pertahanan National Malaysia (UPNM), 2016.
33. **External Assessor.** Dr. Syed Mohd Saufi bin Tuan Chik, Universiti Malaysia Pahang (UMP), 2015.
34. **External Assessor.** Dr. Zurina binti Mohamad, Universiti Teknologi Malaysia (UTM), 2015.
35. **External Assessor.** Dr. Tan Khang Wei, UCSI University, 2015.
36. **External Assessor.** Dr. Noor Azilah Mohd Kasim. Universiti Pertahanan National Malaysia (UPNM), 2014.

37. **External Assessor.** Dr. Raha Ahmad Raus, International Islamic University Malaysia (IIUM), 2013.
38. **External Assessor.** Dr. Mohammad Dalour Hossen Beg, Universiti Malaysia Pahang (UMP), 2012.
39. **External Assessor.** Dr. D.M. Reddy Prasad, Universiti Malaysia Pahang (UMP), 2012.
40. **External Assessor.** Dr. Meor Zainal Meor Talib, Universiti Kebangsaan Malaysia (UKM), 2007.

### Examination Panel of Academic Programmes

1. **External Examiner.** The Master of Sustainable System (MMJS) and Master of Sustainable and Environmental Science (MMJJ) programs. Malaysia Japan-International Institute of Technology (MJIT), Universiti Teknologi Malaysia, 2023-24.
2. **External Examiner.** The Doctor of Philosophy (PhD) in Chemical Engineering Programme, Xiamen University Malaysia (XMUM), 2023-24.
3. **External Examiner.** The Master of Science (MSc) in Chemical Engineering Programme, Xiamen University Malaysia (XMUM), 2023-24.
4. **External Assessor.** The Doctor of Philosophy (PhD) in Engineering Programme, Kulliyah of Engineering, IIUM. 2023-2025.
5. **Lead External Assessor.** Programme Accreditation for Master of Process Safety, Universiti Teknologi Petronas (UTP), 2023.
6. **External Examiner.** The Doctor of Philosophy (PhD) in Chemical Engineering Programme, Xiamen University Malaysia (XMUM), 2022-23.
7. **External Examiner.** The Master of Science (MSc) in Chemical Engineering Programme, Xiamen University Malaysia (XMUM), 2022-23.
8. **External Evaluator.** Programme Full Accreditation Audit Doctorate Programme in Chemical Engineering, Universiti Teknologi Malaysia, 2022.
9. **External Evaluator.** Programme Full Accreditation Audit Doctorate Programme in Energy Engineering, Universiti Teknologi Malaysia, 2022.

10. **External Examiner.** The Doctor of Philosophy (PhD) in Chemical Engineering Programme, Xiamen University Malaysia (XMUM), 2021-22.
11. **External Examiner.** The Master of Science (MSc) in Chemical Engineering Programme, Xiamen University Malaysia (XMUM), 2021-22.
12. **Program Curriculum Evaluator.** Master of Science in Environmental Engineering (Mixed Mode), Universiti Teknologi Malaysia, 2021.
13. **Program Curriculum Evaluator.** Doctorate Programme in Environmental Engineering (Research Mode), Universiti Teknologi Malaysia, 2021.
14. **External Examiner.** The Master of Science (MSc) in Polymer Technology Programme, Universiti Teknologi Malaysia, 2021.
15. **External Evaluation Committee.** Joint Master's Degree Program in Sustainability and Environmental Science (JMSES) Jointly Delivered by Malaysia-Japan International Institute of Technology (MJIIT) and University of Tsukuba, Japan, 2021.
16. **External Examiner.** Master Mixed Mode, Master by Research and PhD in Environmental Engineering. Universiti Teknologi Malaysia, 2021.
17. **External Examiner.** Bachelor Program of Chemical Engineering, Engineering College, Universiti Malaysia Pahang, 2020-2022.
18. **External Evaluator.** Programme Full Accreditation Audit for Master of Science of Sustainable and Environmental Science, Malaysia-Japan International Institute of Technology (MJIIT), UTMKL, 2020-2021.
19. **Programme Assessor.** Master of Science in Process Safety, Universiti Teknologi Petronas, 2020.
20. **External Examiner.** School of Chemical and Energy Engineering, Faculty of Engineering, Universiti Teknologi Malaysia, 2019-2021.
21. **Lead External Assessor** on Programme Accreditation for Master of Process Safety, Universiti Teknologi Petronas (UTP), 2018.
22. **External Assessor** on Programme Accreditation for Master of Process Integration, Universiti Teknologi Petronas (UTP), 2018.
23. **External Program Examiner.** Chemical and Petrochemical Engineering Program, UCSI University, 2013.

24. **Program External Examiner** for Bachelor of Chemical Engineering and SEGi University, 2013.
25. **Program External Examiner** for Bachelor of Engineering (Chemical-Polymer, SKR) and Master of Engineering-Polymer (Research) (MKR), Universiti Teknologi Malaysia, 2012.
26. **Program External Examiner** for Bachelor of Chemical Engineering Technology (Process) and Universiti Kuala Lumpur MICET, 2012.
27. **External Program Examiner.** Chemical and Petrochemical Engineering Program, UCSI University, 2012.
28. **External Program Examiner.** Chemical and Petrochemical Engineering Program, UCSI University, 2011.
29. **External Program Examiner.** Chemical and Petrochemical Engineering Program, UCSI University, 2010.
30. **External Examiner.** Chemical Engineering Program Kolej University SEGi 2008.
31. **Course Module Examiner.** Diploma of Environmental Engineering, University College SEGi, 2008-current.
32. **External Program Examiner.** Chemical Engineering Twinning Program, University College SEGi –Sheffield University, UK, 2008-2009.

#### **Grant Evaluation Panel (National Level)**

1. **Technical Evaluator Panel.** FRGS Funds, MOHE, Putrajaya, 2024.
2. **Technical Evaluator Panel.** PRGS Funds, MOHE, Putrajaya, 2024.
3. **Technical Evaluator Panel.** TRGS Funds, MOHE, Putrajaya, 2023.
4. **Technical Evaluator Panel.** FRGS Funds, MOHE, Putrajaya, 2023.
5. **Technical Evaluator Panel.** PRGS Funds, MOHE, Putrajaya, 2023.
6. **Technical Evaluator Panel.** FRGS Funds, MOHE, Putrajaya, 2022.

7. **Technical Evaluator Panel.** PRGS Funds, MOHE, Putrajaya, 2022.
8. **Evaluation Panel.** Malaysia-France Bilateral Research Collaboration Grant 2021 (MATCH), 2021.
9. **Technical Evaluator Panel.** FRGS Funds, MOHE, Putrajaya, 2021.
10. **Technical Evaluator Panel.** PRGS Funds, MOHE, Putrajaya, 2021.
11. **Evaluation Panel.** Hubert Curien Partnership – Hibiscus (Phc-Hibiscus) Grant, 2020.
12. **Evaluation Panel.** Yayasan Universiti Teknologi Petronas Fundamental Research Grant (YUTP-FRG), Universiti Teknologi Petronas, 2020.
13. **Technical Evaluator Panel.** FRGS Funds, MOHE, Putrajaya, 2020.
14. **Technical Evaluator Panel.** PRGS Funds, MOHE, Putrajaya, 2020.
15. **Technical Evaluator Panel.** Evaluation of Look East Policy 2.0 (LEP 2.0) Project Ending Report, MOHE, Putrajaya, 2019.
16. **Technical Evaluator Panel.** FRGS Funds, MOHE, Putrajaya, 2019.
17. **Technical Evaluator Panel.** PRGS Funds, MOHE, Putrajaya, 2019.
18. **Technical Evaluator Panel.** PRGS Funds, MOHE, 2018.
19. **Technical Evaluator Panel.** LRGS Funds, MOHE, 2018.
20. **Technical Evaluator Panel.** TRGS Funds, MOHE, 2018.
21. **Technical Evaluator Panel.** FRGS Funds, MOHE, 2018.
22. **Technical Evaluator Panel.** FRGS Funds for Malaysia Research Stars Award (FRGS-MRSA) winner, MOHE, for Prof. Dr. Mohd. Ali Hassan, 2018.
23. **Technical Evaluator Panel.** PRGS Funds, MOHE, Putrajaya, 2017.
24. **Technical Evaluator Panel.** FRGS-MRSA Funds for Malaysia Rising Stars Award winner, MOHE, for Professor Dr. Lee Keat Teong, 2017.
25. **Technical Evaluator.** Pembentangan laporan prestasi dan kewangan projek sedia ada dan penilaian permohonan baharu bagi tahun kewangan 2018 di bawah program SATREPS. MOHE, 2017.

26. **Technical Evaluator Panel.** PRGS Funds, MOHE, Putrajaya, 2016.
27. **Evaluation Panel.** Projek Penyelidikan Di Bawah Program Look East Policy Wave 2.0 (LEP 2.0) dan Japan Society for Promotion of Science–Asian Core Programme (JSPS-Asian Core), MOHE, Putrajaya.2016.
28. **Technical Evaluator Panel.** FRGS Funds (2<sup>nd</sup> Round), MOHE, UiTM Dengkil, 2016.
29. **Technical Evaluator Panel.** FRGS and TRGS Flood Disaster Management Special Funds, MOE, 11-13 March 2015.
30. **Technical Evaluator Panel.** FRGS Funds, MOE, Cyberjaya, 2014.
31. **Technical Evaluator Panel.** ERGS Funds 2013, MOHE, Petaling Jaya, Selangor, 2013.
32. **Technical Evaluator Panel.** FRGS Funds 2013 (First Round), MOHE, Port Dickson, Negeri Sembilan, 2013.
33. **Technical Evaluator Panel.** FRGS Funds (2<sup>nd</sup> Round), MOHE, Malacca, 2013.
34. **Evaluation Panel.** Laboratory Value Management Meeting (VM Lab), Fakulti Kejuruteraan, UM, 2013.
35. **High Impact Research (HIR) Grant Progress Evaluation Panel.** Universiti Malaya (UM), Kuala Lumpur, 2012.
36. **Technical Evaluator Panel.** ERGS Funds 2012, MOHE, Seremban, Negeri Sembilan, 2012.
37. **Technical Evaluator Panel.** NRGs Funds 2012, MOA, Putrajaya, 2012.

#### Grant Evaluation Panel (UPM Level)

1. **Evaluation Panel.** Research Grant University Level. Research Management Centre, UPM, 2023-2024.
2. **Evaluation Panel.** Research Incentive Grant for Teaching and Learning (GIPP). CADe, UPM, 2023.
3. **Technical Evaluator Panel.** FRGS, Research Management Centre, UPM, 2023.

4. **Technical Evaluator Panel.** FRGS, Research Management Centre, UPM, 2022.
5. **Technical Evaluator Panel.** FRGS, Research Management Centre, UPM, 2021.
6. **Technical Evaluator Panel.** FRGS, Research Management Centre, UPM, 2020.
7. **Technical Evaluator Panel.** FRGS, Research Management Centre, UPM, 2019.
8. **Technical Evaluator Panel.** FRGS and Science Funds, Research Management Centre, UPM, 2018.
9. **Technical Evaluator Panel.** TeD1 MOSTI Grant, UPM, 2021.
10. **Technical Evaluator Panel.** RUGS Funds, Research Management Centre, UPM, 2012.
11. **Technical Evaluator Panel.** FRGS and Science Funds, Research Management Centre, UPM, 2012.
12. **Technical Evaluator Panel.** PRPI 2011, Research Management Centre, UPM.
13. **Technical Evaluator Panel.** ERGS and FRGS Funds, MOHE Applications, Research Management Centre, UPM, 2011.
14. **Technical Evaluator Panel.** PRGS Funds, MOHE Applications, Research Management Centre, UPM, 2011.
15. **Technical Evaluation Panel.** Research Colloquium for New Lecturers' Research Scheme, 20-21 August 2008, by Research Management Centre, UPM.
16. **Technical Evaluator Panel** for Science Fund Applicants, Research Management Centre, UPM, 2007.
17. **Technical Evaluator Panel** for FRGS Fund Applicants, Research Management Centre, UPM, 2007.

**Appointments as Scholarship Interview Panel**

1. **Interview Panel.** Program Hadiah Latihan Persekutuan (HLP) Dan Cuti Belajar Bergaji Penuh Tanpa Biasiswa (CBBPTB) Jabatan Perkhidmatan Awam (JPA), Sesi 2020, 24 July 2019.
2. **Interview Panelist.** JPA-Program Hadiah Latihan Persekutuan dan Cuti Belajar Bergaji Penuh Tanpa Biasiswa Sesi 2020, Jabatan Perkhidmatan Awam (JPA), 2019.
3. **Interview Panellist.** Yang Di-Pertuan Agong Scholarship, Jabatan Perkhidmatan Awam (JPA), 2017.
4. **Interview Panelist.** JPA-Program Hadiah Latihan Persekutuan dan Cuti Belajar Bergaji Penuh Tanpa Biasiswa Sesi 2017, Jabatan Perkhidmatan Awam (JPA), 2016.
5. **Interview Panellist.** Yang Di-Pertuan Agong Scholarship, Jabatan Perkhidmatan Awam (JPA), 2015.
6. **Interview Panellist.** Yang Di-Pertuan Agong Scholarship, Jabatan Perkhidmatan Awam (JPA), 2014.
7. **Interview Panelist.** JPA-HRD Scholarhip, Jabatan Perkhidmatan Awam (JPA), 2014.
8. **Interview Panellist.** Yang Di-Pertuan Agong Scholarship, Jabatan Perkhidmatan Awam (JPA), 2013.
9. **Interview Panellist.** Yang Di-Pertuan Agong Scholarship, Jabatan Perkhidmatan Awam (JPA) Malaysia, 2012.
10. **Interview Panellist.** Human Life Advancement Foundation (HLAP) Scholarship, Human Life Advancement Foundation, Malaysia, 2012.

### Appointments as Event Judge

1. **Panel Judge.** Anugerah Fellowship Naib Canselor (Kategori Pengajaran) 2018 (AFNC-KP 2018 ). UPM. 2018.
2. **Judge.** The Poster Presentation in 1<sup>st</sup> Regional Chemical Engineering Undergraduate Congress (RCEUC 2017). Universiti Malaya, 11-12 July 2017.
3. **Panel Judges.** 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.

4. **Panel Judge.** H84MEP MEng Project Research Showcase Event 2015. Nottingham University Malaysia Campus. 21 May 2015.
5. **Panel Judge.** International Invention Innovation Industrial Design and Technology Exhibition (I-TEX), 2015.
6. **Panel Judge.** International Invention Innovation Industrial Design and Technology Exhibition (I-TEX), 2014.
7. **Panel Judge.** International Invention Innovation Industrial Design and Technology Exhibition (I-TEX), 2013.
8. **Panel Judge.** Ekspo Inovasi Islam 2013. USIM, Nilai, Negeri Sembilan, 26 October, 2013.
9. **Panel Judge.** L’Oreal Young Scientist Carnival 2012, UPM, 20 November 2012.
10. **Panel Judge.** PECIPTA Exhibition 2011.
11. **Panel Judge.** ITEX, MINDS, 2004-2008.

### Appointments as Editor / Editorial Member

1. **Editor in Chief.** *Pertanika Journal of Science and Technology*, Universiti Putra Malaysia Press. 2020-2025.
2. **Guest Editor of Special Issue.** “Functional Carbon for Environmental Pollution Treatment”, *Discover Sustainability*. Springer Nature. 2024.
3. **Editorial Member**, *Processes*, MDPI. 2021-current.
4. **Guest Editor of Special Issue.** “Biofuels Production and Sustainability”, *Sustainability*, MDPI. 2022.
5. **Section Editor**, *Journal of Academic of Science Malaysia*. Academic Science Malaysia (ASM). 2021-current.
6. **Review Editor**, *Frontiers in Environmental Chemistry Journal*, Frontiers Media. 2018-current.

7. **Academic Editor**, *Journal of Chemistry*, Hindawi Publishing Corporation, 2018-current.
8. **Chief Editor**, *INTROPica Bulletin*, INTROP, UPM. 2009-2011.
9. **Editorial Member**, *Journal of Applied Chemistry*, Hindawi Publishing Corporation. 2013-2018.
10. **Regional Editor for Asia**. *International Journal of Plant, Animal and Environmental Science* (IJPAES), Fortune Journals. 2011-Current.
11. **Editorial Member**, *International Journal of Environmental Engineering*, INDERSCIENCE. 2007-08.
12. **Guest Editor of Special Issue**. "Green Composite". *International Journal of Polymer Science* (IJPS), Hindawi Publishing Corporation. 2011.
13. **Editorial Member**, *Institute of Engineers Malaysia Journal*, Institute of Engineers Malaysia (IEM). 2006-2012.

### Appointments as Journal Reviewer

1. **Journal reviewer** for Composites Part A, Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).
2. **Journal reviewer** for Bioresources Technology, Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).
3. **Journal reviewer** for BioResources, United State (ISI/SCOPUS Cited Publication).
4. **Journal reviewer** for Chemosphere, Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).
5. **Journal reviewer** for Advanced Powder Technology, Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).
6. **Journal reviewer** for Journal of Hazardous Materials, Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).
7. **Journal reviewer** for Journal of Taiwan Institute of Chemical Engineering, Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).

8. **Journal reviewer** for Polymer Composites, Willey, United State (ISI/SCOPUS Cited Publication).
9. **Journal reviewer** for Construction & Building Materials, Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).
10. **Journal reviewer** for Process Biochemistry, Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).  
Ana
11. **Journal reviewer** for Journal of Polymers and the Environment, Springer, Switzerland (ISI/SCOPUS Cited Publication).
12. **Journal reviewer** for Environmental Monitoring and Assessment. Springer, Switzerland (ISI/SCOPUS Cited Publication).
13. **Journal reviewer** for Waste and Biomass Valorization, Springer, Switzerland (ISI/SCOPUS Cited Publication).
14. **Journal reviewer** for Emergent Materials, Springer, Switzerland.
15. **Journal reviewer** for Journal of Analytical Chemistry, Hindawi, USA (SCOPUS Cited Publication).
16. **Journal reviewer** for Chemical Engineering Transactions, The Italian Association of Chemical Engineering, Italy (SCOPUS Cited Publication).
17. International Journal of Biomaterials, Hindawi, USA (SCOPUS Cited Publication).
18. **Journal reviewer** for Environmental Technology & Innovation, Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).
19. **Journal reviewer** for Analytical Letters, Taylor and Francis, United Kingdom (ISI/SCOPUS Cited Publication).
20. **Journal reviewer** for Polymer-Plastics Technology and Engineering, Taylor and Francis, United Kingdom (ISI/SCOPUS Cited Publication).
21. **Journal reviewer** for Journal of Chemistry, Hindawi, United State, (ISI/SCOPUS Cited Publication).
22. **Journal reviewer** for Journal of King Saud University - Science, Elsevier, United Kingdom (SCOPUS Cited Publication).
23. **Journal reviewer** for Journal of Environmental Management, Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).

24. **Journal reviewer** for Journal of Composite Materials, SAGE, United Kingdom (ISI/SCOPUS Cited Publication).
25. **Journal reviewer** for Waste Management, Elsevier, United Kindom (SCOPUS Cited Publication).
26. **Journal reviewer** for Polish Journal of Environmental Studies, Poland (ISI/SCOPUS Cited Publication).
27. **Journal reviewer** for Separation and Purification Technologies, Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).
28. **Journal reviewer** for Environmental Science and Technologies, Taylor and Francis, United Kingdom (ISI/SCOPUS Cited Publication).
29. **Journal reviewer** for Polymer Engineering, Willy, United State (ISI/SCOPUS Cited Publication).
30. **Journal reviewer.** International Journal of Green Energy, Canada (ISI/SCOPUS Cited Publication).
31. **Journal reviewer** for International Journal of Environmental Science and Technology, Springer, Switzerland (ISI/SCOPUS Cited Publication).
32. **Journal reviewer** for Chemical Engineering Journal, Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).
33. **Journal reviewer** for Industrial Crops and Products, Elsevier, United Kingdom. (ISI/SCOPUS Cited Publication).
34. **Journal reviewer** for Asian Pacific Chemical Engineering Journal, Willey, United Kingdom (ISI/SCOPUS Cited Publication).
35. **Journal reviewer** for Desalination, Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).
36. **Journal reviewer** for Environmental Technology, Taylor Francis, United Kingdom (ISI/SCOPUS Cited Publication).
37. **Journal reviewer** for Journal of Applied Polymer Science, Willey, United State (ISI/SCOPUS Cited Publication).
38. **Journal reviewer** for Reviews in Chemical Engineering, De Gruyter, Germany (ISI/SCOPUS Cited Publication).
39. **Journal reviewer** for Journal of Brazilian Chemical Society Technology, Brazil (ISI/SCOPUS Cited Publication).

40. **Journal reviewer** for Desalination and Water Treatment, Desalination Publications, USA (ISI/SCOPUS Cited Publication).
41. **Journal reviewer** for International Journal of Environmental Technology and Management, Inderscience, UK (ISI/SCOPUS Cited Publication).
42. **Journal reviewer** for Particology, Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).
43. **Journal reviewer** for Food Research, Rynnye Lyan Resources, Malaysia (Scopus Cited Publication).
44. **Journal reviewer** for Progress in Industrial Ecology, Inderscience Publishers, UK. (Scopus Cited Publication)
45. **Journal Reviewer** for Journal of Engineering Research, Kuwait (Scopus Cited Publication).
46. **Journal reviewer** for African Journal Environmental Science and Technology, Africa. (Google Scholar Cited Publication).
47. **Journal reviewer** for Australian Journal of Basic and Applied Sciences. AENSI Publishing Corporation, Jordan (Goggle Scholar Publication).
48. **Journal reviewer** for International Journal of Environment and Waste Management, Inderscience, UK (ISI/SCOPUS Cited Publication).
49. **Journal reviewer** for Journal of Herbs, Spices & Medicinal Plants, Taylor and Francis, UK (Scopus Cited Publication).
50. **Journal reviewer** for Journal of Oil Palm Research, MPOB, Malaysia (ISI/SCOPUS Cited Publication).
51. **Journal reviewer** for Journal of Taibah University for Science, Elsevier, United Kingdom (SCOPUS Cited Publication).
52. **Journal reviewer** for Resource-Efficient Technologies, United Kingdom (SCOPUS Cited Publication).
53. **Journal reviewer** for Jurnal Teknologi, UTM Press, Malaysia (SCOPUS Cited Publication).
54. **Journal reviewer** for IIUM Engineering Journal. IIUM Press, Malaysia Malaysia (SCOPUS Cited Publication).

55. **Journal reviewer** for Malaysian Journal of Analytical Sciences (MJAS), Malaysia (SCOPUS Cited Publication).
56. **Journal reviewer** for International Food Research Journal, UPM, Malaysia (ISI/SCOPUS Cited Publication).
57. **Journal reviewer** for Pertanika Journal, UPM Press, Malaysia (ISI/SCOPUS Cited Publication).
58. **Journal reviewer** for Journal of Waste Management, Hindawi, United State (SCOPUS Cited Publication).
59. **Journal reviewer** for ASM Science Journal, Academic Science Malaysia Press, Malaysia.
60. **Journal reviewer** for Colloids and Surfaces A Physicochemical and Engineering Aspects, Elsevier, United Kingdom (ISIS/ SCOPUS Cited Publication).
61. **Journal reviewer** for International Journal of Environmental Analytical Chemistry, Springer, Switzerland (ISI/SCOPUS Cited Publication).
62. **Journal reviewer** for Acta Chimica Slovenica, Slovenian Chemical Society, Slovenija (ISI/ SCOPUS Cited Publication).
63. **Journal reviewer** for EVERGREEN, Kyushu University, Japan. (SCOPUS Cited Publication).
64. **Journal reviewer** for Separation Science Plus, Wiley, USA. (SCOPUS Cited Publication).
65. **Journal reviewer** for Journal of Materials Research and Technology, Elsevier, United Kingdom. (ISI/ SCOPUS Cited Publication).
66. **Journal reviewer** for Egyptian Journal of Petroleum. Elsevier, United Kingdom (SCOPUS Cited Publication).
67. **Journal reviewer** for Science of the Total Environment. Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).
68. **Journal reviewer** for Food Bioscience. Springer, Switzerland. (ISI/SCOPUS Cited Publication).
69. **Journal reviewer** for Adsorption Science and Technology, Hindawi, USA. (ISI/SCOPUS Cited Publication).
70. **Journal reviewer** for Sustainable Cities and Society, Elsevier, United Kingdom (ISI/SCOPUS Cited Publication).

## Appointments as Book/ Book Chapter/ Book Proposal Reviewer

1. **Book Chapter Reviewer.** “Chapter 4: Impact of drying on various quality characteristics of herbs, spices, and medicinal plants” in Arun S. Mujumdar, Hii Ching Lik and Shivanand Shirkhole (Eds.), CRC Press, 2022.
2. **Book Reviewer.** Manuscript titled “Synthesis and Application of Manganese Dioxide Particles”, Penerbit USM, P. Pinang, 2021.
3. **Book Reviewer.** Manuscript titled “The Prospects of Green and Advanced Technologies”, Penerbit UniSZA, Terengganu, 2020.
4. **Book Proposal Reviewer.** Manuscript titled “Heavy Metal Contamination of Surface and Underground Water: Environmental, Policy and Ethical Issues”, CRC Press, Taylor and Francis Books India Pvt. Ltd, 2018.
5. **Book Reviewer.** Manuscript titled “Perkembangan dalam Polimer Terbiodegradasi”, Penerbit UniMAP, Kangar, Perlis, 2014.

## Appointments as Conference Proceeding Reviewer

1. **Conference Proceeding Reviewer.** The 5th International Conference on Agricultural and Food Engineering joint conference with The 13th International FRUTIC Symposium 2020, UPM, 2020.
2. **Conference Proceeding Reviewer.** International Conference on Sustainable Energy and Environment Sensing 2018 (SEES 18), University of Cambridge, UK, 18-19 June 2018.
3. **Conference Proceeding Reviewer.** International Conference on Civil and Environmental Engineering (CENVIRON 2017), Pulau Pinang, Malaysia, 28-29 November 2017.
4. **Conference Proceeding Reviewer.** Persidangan Ergonomik Antarabangsa Ke-2 (ICE 2013). University of Malaya, Kuala Lumpur, 2013.
5. **Conference Proceeding Reviewer.** The 3rd International Multi Conference on Engineering and Technological Innovation (IMETI 2010), 29 June-2 July, 2010, Orlando, Florida, USA.

6. **Conference Proceeding Reviewer.** The 2<sup>nd</sup> International Multi Conference on Engineering and Technological Innovation (IMETI 2009), 10-13 July, 2009, Orlando, Florida, USA.
7. **Conference Proceeding Reviewer.** Conference on Advanced Material and Nanotechnology (CAMAN2009), 3-5 November 2009, Kuala Lumpur.
8. **Conference Proceeding Reviewer.** ISAExpo 2003Fall Conference, 21-23 Oct, 2003, Houston, Texas, US. International.

#### External Examiner for Post Graduate Students from Oversea Universities

1. **Ajitha Priya N. Jammala. PhD.** Removal and Recovery of Pollutants from Water through Adsorption. Sri Venkateswara University, Tirupati, **India.** 2006.
2. **Mohammed Shaharin Umar. PhD.** Electricity Generation from Oil Palm Biomass in Malaysia: A Policy Framework. Murdoch University, **Australia.** 2014.
3. **Amitkumar Ganesh Shirke. PhD.** Tung Oil Based Polyurethane and Its Applications. Sardar Vallabhbhai National Institute of Technology (SVNIT), **India.** 2019.
4. **Yongmei Sun. Master.** Spray Drying of a Novel Low Bulk Density Reduced Sugar Powder. Monash University, **Australia.** 2019.
5. **Ananda A. PhD.** Synthesis of Metal Oxides and Nano composites for Photocatalytic Degradation of Waste water Pollutants. Visvesvaraya Technological University, **India.** 2023.

#### External Examiner for PhD Thesis

1. **Norazah Abd Rahman (P22152)** Pencampuran Zarah Dengan Menggunakan Pengadun V, Lapisan Terbendalir dan Pemcampur Nauta. Universiti Kebangsaan Malaysia (UKM), 2005.
2. **Shaya Mahmoudian.** Preparation and Characterization of Regenerated Cellulose Nanocomposites via Ionic Liquids. Universiti Teknologi Malaysia (UTM), 2012.

3. **Mek Zah binti Salleh.** Sintesis dan Pencirian Uretana Akrilat Hipercabang Berasaskan Asid Oleik Minyak Sawit. Universiti Kebangsaan Malaysia (UKM), 2012.
4. **Lilis Sukeksi (KHA060031).** Recovery of Polyphenol from Pink Guava Processing Waste by Membrane Technology. Universiti Malaya (UM), 2013.
5. **Atheel Hassan Kadhim Alwash (P-JD0086).** Preparation and Characterization of Zeolite Y-Based Catalyst for Sonocatalytic Degradation of Organic Dyes in Water. Universiti Sains Malaysia (USM), 2013.
6. **Che Zulzikrami Azner Bin Abidin.** Study of Advanced Oxidation Processes (AOPs) Combined with Biological Treatment for Removal of Dye Industrial Effluents. Universiti Malaysia Perlis (UniMAP), 2014.
7. **Mutiu Kolade Mosa (G1120811).** Development of A Hybrid Adsorption-Membrane Process for Wastewater Reclamation for Boiler-Feed Reuse. International Islamic University Malaysia (IIUM), 2014.
8. **Parthiban Siwayanan.** Production, Characterization and Pre-commercialization of Laundry Detergent Powders Incorporated with Palm C16 Methyl Ester Sulphonates, Universiti Teknologi Malaysia (UTM), 2014.
9. **Ting Teo Ming.** Preparation and Characterization of Radiation Grafted Fibrous Adsorbent Containing Glucamine for the Removal of Boron. Universiti Teknologi Malaysia (UTM), 2015.
10. **Mohd. Hairul bin Khamidun.** Adsorption of Ammonium and Phosphate from the Domestic Wastewater Treatment Plant Effluent Applied to a Hybrid Plug-Flow Column Reactor, Universiti Teknologi Malaysia (UTM), 2015.
11. **Tengku Nur Zulaikha bt Tengku Malaim Busu.** Synthesis and Characterization of Lignocellulose Based Demulsifier from Palm Oil Empty Fruit Bunch for Crude Oil Demulsification, Universiti Teknologi Malaysia (UTM), 2015.
12. **Terri Lee Zhuan Ean.** An Environmentally Friendly and Sustainable Biosorbent for Harvesting Humid Substances from Peat Swamp Runoff. Universiti Malaysia Sarawak (UniMAS), 2016.
13. **Tan Lian See.** Absorption of High Carbon Dioxide (CO<sub>2</sub>) Content Natural Gas in Packed Column at Elevated Pressure Using Aqueous and Hybrid Solvent. Universiti Teknologi Petronas (UTP), 2016.
14. **Sivathass Bannir Selvam.** Sequential Treatment of Landfill leachate by seaweed Extract and Up-Flow Anaerobic Reactor. Razak School in Engineering and Advanced Technology, Universiti Teknologi Malaysia (UTM), 2016.

15. **Sok Tiak Chuan.** Improvement on Tear Resistance of Rubber Molded Mat via Adjustments of Fillers and Accelerators. Universiti Teknikal Malaysia Melaka (UTeM), 2016.
16. **Ahmad Samir Naje.** Implementation of Electrocoagulation Technology in Wastewater Treatment of Textile Industry. Razak School in Engineering and Advanced Technology, Universiti Teknologi Malaysia (UTM), 2016.
17. **Shakila Binti Abdullah.** Development and Application of the Kinetics Models for Biosorption of oil and Grease from Agro-Food Industrial Effluent. Universiti Teknologi Malaysia (UTM), 2016.
18. **Trinh Hoai Thanh.** Study the Release of Nitrogen from Coated Urea Granule: Modelling and Experimental Validation. Universiti Teknologi Petronas (UTP), 2016.
19. **Hairul Nazirah Binti Abdul Halim.** CO<sub>2</sub> Absorption from Natural Gas Using Piperazine Promoted 2-Amino-2-Methyl-1-Propanal Solvent at High Pressure Conditions. Universiti Teknologi Petronas (UTP), 2016.
20. **Nurfahana binti Abdul Talib.** Kinetics Study of Silica Removal and the effects to the Protein Enrichments of Rice Straw Through Novel Semi Batch System. Universiti Teknologi Malaysia (UTM), 2016.
21. **Azharin Shah Abd. Aziz.** Development of Water Adsorbent from Spent Bleaching Earth for Dehydration of Azeotrope Ethanol-Water Mixture. Universiti Malaysia Pahang (UMP), 2016.
22. **Norazlina binti Mohd Yatim.** Functionalized Multiwall Carbon Nanotubes Grafted Urea Fertilizer for Enhancement of Nitrogenous Use Efficiency in Plant. Universiti Teknikal Malaysia Melaka (UTeM), 2016.
23. **Azharin Shah Abd. Aziz.** Development of Water Adsorbent from Spent bleaching Earth for Dehydration of Azeotrope Ethanol-Water Mixture. Universiti Malaysia Pahang (UMP), 2016.
24. **Mohd Affandi Bin Mohd Ali.** Transesterification of vegetable Oil Using a Continuous Microwave Assisted Reactor (CMAR). Universiti Malaysia Pahang (UMP), 2016.
25. **Feven Matthews Michael.** Preparation and Properties of Poly-Lactic Acid/ Nanohydroxyapatite/ Graphene Nanocomposite Blend for Load Bearing Bone Implant. Nottingham University Malaysia Campus (NUMC), 2016.
26. **Anita Maslahati Roudi.** Treatment of Landfill Leachate Using Fenton Process. Universiti Teknologi Malaysia (UTM), 2017.

27. **Lum Yip Hing.** Slow-Release Behaviour of Biodegradable Boric Acid Crosslinking Starch/ Polyvinyl Alcohol Matrix Urea. Universiti Teknikal Malaysia Melaka (UTeM), 2017.
28. **Babar Azeem.** Coating Uniformity of Controlled Release Urea in Fluidized Bed using Modified Biopolymer as Coating Polymer. Universiti Teknologi Petronas (UTP), 2017.
29. **Zyed Salem Alsagayar.** Characterization and Mechanical Properties of Treated Kenaf Fiber Reinforced Epoxy Resin/ Epoxidized Palm Oil Montmorillonite Nanocomposites. Universiti Teknologi Malaysia (UTM), 2017.
30. **Ashfaq Ahmad.** Immobilized *Chlorella Vulgaris* in the Reactor System for Heavy Metals Bio-sorption and Palm Oil Mill Effluent Treatment. Universiti Teknologi Petronas (UTP), 2018.
31. **Sabrina binti Soloi.** Amine-Based Polyols Synthesis from Epoxidized Palm Oil (EPO) via Ring Opening Reaction. Universiti Teknologi Malaysia (UTM), 2018.
32. **He Yuhai.** Use of Ultrasound and Enzyme (Unified System) on the Extraction of Eurycomanone from *Eurycoma Longifolia* (Tongkat Ali). Universiti Malaysia Pahang (UMP), 2018.
33. **Jebunnessa.** Development of Locally Isolates Microbial Coagulant for Removal of Water Turbidity. International Islamic University Malaysia (IIUM), 2018.
34. **Muhamad Nor Syafik bin Yahya.** Nano Emulsion Petro Using Diethanol Amide Methyl Esters Synthesis from *Jatropha Curcus L. Oil*. Universiti Teknologi MARA (UiTM), 2018.
35. **Slti Hajar Binti Abd Rahim.** Characteristics and Performance of a Combination of Filter Aids. Malaysia-Japan International Institute of Technology (MJIT), Universiti Teknologi Malaysia (UTM), 2018.
36. **Nadhira Binti Dahari.** Particle Number Concentration and Temporal Variation of Atmospheric PM 2.5 Emission Speciated Particle Mass Concentration. Universiti Teknologi Malaysia (UTM), 2019.
37. **Abubakar Abubakar Umar.** Stability Modelling and Demulsification Using Nanoparticles Based Demulsifiers. Universiti Teknologi Petronas (UTP), 2019.
38. **Syed Rizwan Shafqat.** Synthesis, Characterization and Applications of Molecular Imprinted Polymers for the Extraction of Azo Dyes from Waste Environment. Universiti Malaysia Sarawak (UniMAS), 2019.
39. **Zatil Izzah bt Ahmad Tarmizi.** Preparation and Characterization of Hydrophilic Polyurethane Scaffolds by Electrospinning and Radiation Induced Grafting of

- 2-Hydroxyethyl Methacrylate. Malaysia-Japan International Institute of Technology (MJIT), Universiti Teknologi Malaysia (UTM), 2019.
40. **Nazuha Binti Tugisman.** Ultraviolet Curing of Medical Pressure Sensitive Adhesive Based from Epoxidized Palm Oil Acrylate Maleinate. Universiti Teknologi Malaysia (UTM), 2019.
  41. **Syahida Farhan Binti Azha.** Synthesis, Characterization and Interaction Evaluation of Zwitterionic Composites Adsorbent Coating for Cationic and Anionic Dyes Removal. Universiti Sains Malaysia (USM), 2019.
  42. **Harshini Pakalapati.** Synthesis and Optimization of Polycaprolactone via Enzymatic Catalysis and Its Application in Control release of Fertilizer. Nottingham University Malaysia Campus (NUMC), 2019.
  43. **Sarah binti Salleh.** Paper Composite from Agricultural Biomass of Bagasse Sugarcane/Pineapple Leaf Fibre and Bagasse Sugarcane/Lemon Grass for Paper Packaging Application. Universiti Teknologi Malaysia (UTM), 2019.
  44. **Abdul Basit.** Study of the Effect of Process Parameters on Droplet Spreading Behaviour over Porous Urea Surface. Universiti Teknologi Petronas (UTP), 2019.
  45. **Afraha Baiti Binti Arif@Harip.** Electromagnetic Wave Absorption Efficiency of Green Hydrophobic Magnetic Nanocomposite Sheet from Durian Shell. Universiti Teknikal Malaysia Melaka (UTeM), 2019.
  46. **Effa Radika Binti Bidiin.** Evaluation of Sago Bark Waste Compost Maturity and Stability. Universiti Malaysia Sarawak (UniMAS), 2019.
  47. **Dayangku Intan Binti Muthoub.** Characterizations and Properties of Treated Pineapple Leaves for Pulping Process. Universiti Teknologi Malaysia (UTM), 2020.
  48. **Rida Anak Tajau.** Development and Surface Functionalisation of Palm Oil based Cross-Linked Block Copolyesters Nanoparticles for Usage in a Targeted Drug Delivery System. Universiti Kebangsaan Malaysia (UKM), 2020.
  49. **Shazlina Binti Abd Hamid.** Development of Composite Adsorptive Membrane for The Removal of Heavy Metals. Universiti Sains Malaysia (USM), 2020.
  50. **Siti Nor Qurratu Aini Binti Abd Aziz.** Development of ZnO Nanorod on Supporting Substrates for Photocatalyst Applications. Universiti Sains Malaysia (USM), 2020.
  51. **Ranitha Mathialagan.** A Study on Allicin as Bioinhibitor of Soil Urease for Urea Fertilizer Efficiency. Universiti Teknologi Petronas (UTP), 2020.

52. **Nur Dalila Binti Mohamad.** Mechanisms and Kinetics of Enhanced Oxidative Degradation of Tetrachloroethene by Iron Bearing Soils Minerals and Glutathione in Hyporheic Zone. Universiti Teknologi MARA (UiTM), 2020.
53. **Ricky Saputra.** Ammonium-Based Ternary Deep Eutectic Solvent Coupled with Thermosonic Treatment for Waste Ground Rubber Tire Devulcanization. Taylor University, 2021.
54. **Ramprasath Ramakrishnan.** Fabrication of 3D Hierarchical Nanofiber Scaffolds by Electrospinning Blended with Model Protein and Metallocene Drug for Biomedical Applications. Universiti Malaysia Pahang (UMP), 2021.
55. **Al-Amshawee, Sajjad Khudhur Abbas.** Fixed Bed Biofilm Reactor, Ozonation, and Electrodialysis for Wastewater Sustainability. Universiti Malaysia Pahang (UMP), 2021.
56. **Nur Atikah Binti Abdul Salim.** Mass Transfer Kinetics of Phosphate Removal from Sewage Treatment Plant Effluent by Various Adsorbent. Universiti Teknologi Malaysia (UTM), 2021.
57. **Norashikin Binti Ahmad Zamanhuri.** Microwave-Assisted Sterilization and Extraction of Oil Palm Fruits. Universiti Teknologi MARA (UiTM), 2021.
58. **Nurulhuda binti Amri.** Electrocoagulation Treatment of Acid Red 18 Dye Solution and Actual Batik Wastewater Using Aluminium and Iron Electrode Derived from Waste Materials. Universiti Sains Malaysia (USM), 2021.
59. **Kong Ern Hun.** Utilization of Electric Arc Furnace (EAF) Slag as Agricultural Fertilizer. Universiti Sains Malaysia (USM), 2021.
60. **Chia Vi Vien.** Thermal Degradation Kinetics and Microencapsulation of Polyphenols Derived from *Andrographis Paniculata*. Universiti Malaysia Pahang (UMP), 2021.
61. **Nurul Ilham Adam.** Physicochemical Studies of Chain Extended Cathionic Polyurethane with Natf Salt for Solid Polymer Electrolytes. Universiti Teknologi MARA (UiTM), 2021.
62. **Eleen Dayana Binti Mohamed Isa.** Pullulan Based Zinc Oxide and Polyaniline Nanocomposites for Photodegradation of Rhodamine B. Universiti Teknologi Malaysia-Malaysia - Japan International Institute of Technology (UTM-MJIIT), 2021.
63. **Salmah Binti Moosa.** Synthesis of Silver Kaolinite Nanocomposites Via Physicochemical Method for Evaluation of Adsorption and Antimicrobial

- Property. Universiti Teknologi Malaysia-Malaysia - Japan International Institute of Technology (UTM-MJIIT), 2021.
64. **Zuhaili Binti Idham.** Extraction and Storage Stability of Red Pigment Anthocyanins from Roselle Calyces Using Supercritical Carbon Dioxide. Universiti Teknologi Malaysia (UTM), 2022.
  65. **Yusefi Mustafa.** Green Synthesis of Magnetic Iron Oxide Nanoparticles Loaded in Crystal Nanocellulose as A Solid Support and Their Anticancer Applications. Universiti Teknologi Malaysia-Malaysia - Japan International Institute of Technology (UTM-MJIIT), 2022.
  66. **Siti Aisyah Binti Ghazali.** Biorettng Using Local Microbes for Wastewater Volume Reduction in Kenaf Fiber Production Industry. Universiti Teknologi MARA (UiTM), 2022.
  67. **Chiam Sin Ling.** Synthesis and Characterization of Manganese Dioxide Nanostructures Using Direct Heating Technique for Rhodamine B Dye and Argentum Ions Removal. Universiti Sains Malaysia (USM), 2022.
  68. **Maya Dehimi.** Immobilization and Characterization of Alkaline Protease Produced by Marine Bacteria and Its Evaluation as a Detergent Additive. International Islamic University Malaysia (IIUM), 2022.
  69. **Haripriya Ravi Kumar.** Bioassay-Guided Fractionation and Isolation of Anti-Oxidants from *Crataegus Monogyna* and Investigating Their Role in Treating Cardiovascular Disease. Taylor University, 2022.
  70. **Amin Abbasi.** Glucamine Functionalized Sulfur-Based Polymer for Boron Removal from Aqueous Solutions. Universiti Teknologi Petronas (UTP), 2022.
  71. **Nur Afifah Binti Zubair.** Development of Amine Functionalized Solid Polymer Fibrous Adsorbent for CO<sub>2</sub> Capture. Malaysia-Malaysia - Japan International Institute of Technology (UTM-MJIIT), 2022.
  72. **Muhammad Imran Shaukat.** Activated Carbon for Heavy Metals Removal: Isotherm, Kinetic and Response Surface Methodology Study. Universiti Malaysia Sarawak (UniMAS), 2023.
  73. **Deb Nibedita.** A hybrid system of microbial electrolysis cell and anaerobic digestion for high content of biomethane production. International Islamic University Malaysia (IIUM), 2023.
  74. **Mohamad Mokhtar Bin Ibrahim.** Enhancing Anaerobic Digestion of Palm Oil Mill Effluent (Pome) by Addition of CaO Derived from Waste Cockle Shell as a Buffering Solution in an Upflow Anaerobic Sludge Blanket (UASB) Reactor. Universiti Malaysia Pahang (UMP), 2023.

75. **Nurul Ain Ismail.** Extraction of Samarium, Europium and Gadolinium Using [A336][DEHPA]. Universiti Malaysia Pahang (UMP), 2023.
76. **Wan Nadja Julika Binti Wan Hamizan.** The Development Prototype Sensor for Detection of Sugar Adulteration in Malaysian Stingless Bee Honey. Universiti Malaysia Pahang (UMP), 2023.
77. **Siti Nor Qurratu Aini Binti Abd Aziz.** Development of ZnO Nanorods on Supporting Substrates for Photocatalyst Applications. Universiti Sains Malaysia (USM), 2023.
78. **Nur Fathin Amirah Binti Shafie.** Thermo-Responsive Gamma-Irradiated Nanogels with Tunable Lower Critical Solution Temperature for Drug Delivery. Universiti Teknologi Malaysia-Malaysia - Japan International Institute of Technology (UTM-MJIIT), 2023.
79. **Mohd Shahrul Nizam bin Salleh.** Green Synthesis of Silver Nanoparticles on Pullullan by Gamma Irradiation Technique for Biofilm Packaging. Universiti Teknologi Malaysia-Malaysia - Japan International Institute of Technology (UTM-MJIIT), 2023.
80. **Nurhernida Binti Abdullah Sani.** Electroconductive Indium Zinc Oxide Coated Kenaf and Polyaniline Reinforced Polylactide Composite for Electromagnetic Interference Shielding. Universiti Teknikal Malaysia Melaka, 2023.
81. **Noor Ashikin binti Mohamad.** Grafted Polyolefin Fibrous Adsorbent Containing Optimized Ethylenediamine for CO<sub>2</sub> Separation from CO<sub>2</sub>/CH<sub>4</sub> Mixtures. Universiti Teknologi Malaysia-Malaysia - Japan International Institute of Technology (UTM-MJIIT), 2023.
82. **Suriya Narhayhanen @ Subramaniam a/I Rama Naidu.** Influence of Sewage Treatment Plant Effluent Loading to River Basin during Movement Control Order. Razak Faculty of Technology and Informatics. Universiti Teknologi Malaysia (UTM), 2023.
83. **Zerga Abdel Moumin Yahia.** Waste Sewage Sludge Mediated Zinc Cobalt Sulfide Ternary Nanocomposite for Photocatalytic Water Splitting and Carbon Dioxide Reduction. Universiti Teknologi Malaysia (UTM), 2023.
84. **Fellah Maroua.** Solid State Bioconversion System for the Production of Myco-Coagulant for Water Treatment. International Islamic University Malaysia (IIUM), 2024.

1. **Khairani Abdul Kadir** (P23876). Process Penggranulan Di Dalam Lapisan Terbendalir. Universiti Kebangsaan Malaysia (UKM), 2004.
2. **Nooraidah Mustaffa**. Potential Uses of Local Charcoal and Petroleum Coke as Adsorbent in Removing Chromium (VI). Universiti Malaya (UM), 2006.
3. **Norhayati Binti Abdullah**. Simulation Study on the Esterification Process in Production of PETD. Universiti Malaysia Pahang (UMP), 2007.
4. **Amlaku Abie Lakew**. Exergy Analysis of Steam Methane Reforming. Universiti Teknologi Petronas (UTP), 2007.
5. **Fauziah Marpani**. Binary Fluidization of Oil Palm Residues with Silica Sand in a Gas Solid Fluidized Bed System, Universiti Teknologi MARA (UiTM), 2008.
6. **Kow Kien Woh**. Ultrasonication-Assisted Coating of Nano-Precipitated CaCO<sub>3</sub> with Stearic Acid, University of Malaya (UM), 2009.
7. **Saw Horng Yuan** (PS 05-008-017). Characterization of the Physical and Hydration Properties of Palm Kernel Cake, University Sabah Malaysia (UMS), 2009.
8. **Yusuf Bamidele Onundi** (G0818571). Evaluation of A Novel Carbon Based Adsorbent for Heavy Metals Removal from Industrial Effluent. International Islamic University Malaysia (IIUM), 2010.
9. **Muhammad Afiq Aizuddin Musa** (2008294588). Dvelopment of a Novel Lightweight and Porous Material Formmed via Strong Covalent Oagnic Frameworks for hydrogen Storage, University Technology Mara Malaysia (UiTM), 2011.
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60. **Siti Nur Amalina Binti Mohamad Sukri.** Biological Synthesis of Zinc Oxide-Silver-Nanoparticles for Antibacterial and Anticancer Studies. Malaysia - Japan International Institute of Technology (UTM-MJIIT), UTM 2022.
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63. **Hasnatul Azwani binti Hashim.** Evaluation of Deposited Atmospheric within Malaysia Citi Air Shed. Malaysia - Japan International Institute of Technology (UTM-MJIIT), UTM 2022.
64. **Leong Moong Yan.** Isolation, Characterization, and Functionalization of Cellulose Nanocrystal from Oil Palm Frond Fiber with Antimicrobial Agent. Taylor University, 2024.

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66. **Mohammed Abdulqawi Ahmed Mohammed.** Ultrasonic Assisted Solvent Extraction for Oily Sludge Treatment. Universiti Malaysia Pahang Al-Sultan Abdullah (UPMSA), 2024.

#### Internal Examiner for PhD Thesis

1. **Ibrahim Mohamed Omar Shaluf (GS08055).** PhD. Technological Disasters in Malaysia: Analysis and Expect System Development. 2004.
2. **Aini Mat Said (GS 03266).** PhD. Malaysia Socia-Technical Disaster Model and Learning System. 2006.
3. **Mohanad M-A. El-Harbawi (GS12402).** PhD. Design and Development of an Integrated Chemical Accident System for Monitoring Risk Potential of Hazard Installation. 2006.
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6. **RasminaHalis (GS 15518).** PhD. Biokraft Pulping of Kenaf Using PhanerochaeteChrysosporium, CoriolusVersicolor and PhynoporousSanguineus and their influences on Paper Properties, 2010.
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#### Internal Examiner for Master Science Dissertation (By Research)

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22. **Shrifah Mazrah Binti Sayed Mohamed Zain** (GS 16530). MSc. Enhancing Tensile Properties of Carbon Fiber Reinforced Polypropylene Composite by Carbon Nanotube Coating, 2009.
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#### Chairman for Internal Examination for PhD and Master Science Dissertation (By Research)

1. **Samaneh Karimi Mazraehshahi (GS17061)**. **MSc**. Color Removal of Pulp and Paper Mills Effluent Using Enzymatic Treatment and Advanced Oxidation Processes, 2009.
2. **Chong Gun Hean (GS 16613)**. **PhD**. Application of Supercritical Anti-Solvent in Controlled Drug Delivery, 2009.
3. **Chong Fui Chin (GS)**. **PhD**. Development of Purification Methods for Nucleocapsid Protein of Nipah Virus, 2009.
4. **Alawi Hj. Sulaiman (GS17411)** **PhD**. Improved Biomethanation of Palm Oil Mill Effluent During Anaerobic Treatment In a Semi Commercial Closed Digested Tank, 2010.
5. **Noorshamshiana Abdul Wahab (GS16413)**. **MSc**. Enzyme-Assisted Oil Extraction from Palm Pressed Fibre, 2010.
6. **Harlinabinti Ahmad (GS 15175)**. **PhD**. Sewage Characterization and Insewer Transformation of Phenol and Anionic Surfactants, 2010.

7. **Abdallah A. Ab. Rashdi** (GS 16267). **PhD.** Combined Effects of Moisture, Water Immersion and Temperature of Kenaf Fibres Reinforced Composite Materials, 2010.
8. **Rozita Omar** (GS 16441). **PhD.** Pyrolysis of Empty Fruit Bunch Using Microwave Technology, 2010.
9. **Januar Parlaungan Siregar** (GS 15819). **PhD.** Mechanical Properties of Pineapple Leaf Fiber (Palf) Reinforced High Impact Polystyrene (HIPS) Composites, 2010.
10. **Sairizal Misri** (GS22582). **MSc.** Fabrication and Analysis Small Boat by Using Sugar Palm Fibre Reinforced Unsaturated Polyester Composites, 2010.
11. **Ahmad Azizimosello** (GS18466). **PhD.** Properties of Linerboard from Kenaf (*Hibiscus Cannabinus*) Fiber, 2010.
12. **SamanehLotfiman** (GS20912). **MSc.** Bacterial Cellulose Production from Extracted Date Syrup, 2010.
13. **Azhari Muhammad Syam** (GS 17981). **MSc.** Continuous Production of Jathopha Curcas Biodiesel Using Oscillatory Flow Reactor, 2011.
14. **Shanti Faridah Salleh** (GS 18143). **PhD.** Acid Hydrolysis of Oil Palm Empty Fruit Bunch in a Batch Reactor, 2011.
15. **Mustapha Akil** (GS21852). **MSc.** Synthesis of Bacterial Cellulose from Alternative Carbon Source for Heavy Metal Removal, 2011.
16. **Siti Hajar Othman** (GS 17837). **PhD.** Characterization and Dispersion of TiO<sub>2</sub> Nanoparticles and CFD Simulation of the MOCVD Synthesis System, 2011.
17. **Adrian Choo Cheng Yong** (GS17333). **PhD.** Development of an Efficient Drying System for Oil Palm Veneers, 2012.
18. **Yaghoob Tahery** (GS 19893). **MSc.** Genetic Variation of Some Hibiscus Cannabinus (kenaf) Varieties against Root Knot Nematode, 2012.
19. **Wan Mohamad Haniffan bin Wan Hussin** (GS 25136). **MSc.** Kenaf/ Polypropylene Composites for Bathroom Application: Study of Repeated Immersion and Bleach Affection Mechanical Properties, 2012.
20. **Irayabebinti Ismail.** (GS24790). **MSc.** Studies of the Effects of Storage on the Quality and Physioco-chemical Properties of Malaysian Coffee Beans (Coffee Liberica), 2012.

21. **Ahmad H. Rajab** (GS19545). **PhD.** Production and Characterization of a Biofloculant from *Aspergillus Flavus* and Its Application in Water Treatment, 2012.
22. **Rosalam Bin Che Me** (GS24661). **MSc.** Woven Kenaf Bast Fibre as an Alternative for Glass Fibre Stockinette in the Laminated Composite Structure to Fabricate Prosthetic Leg Socket, 2012.
23. **Umar Faruk Yusuf** (GS12509). **PhD.** Preparation of Linamarin/ Linamarase Nanoparticle Using PLGA for Cancer Cell Targeting in Vitro, 2013.
24. **Tan Mei Ching** (GS31742). **PhD.** Characteristics of Ultrasound Treated Whey Protein in Foaming and Cake Batter for Cake Making, 2014.
25. **Yousef Nami** (GS27438). **PhD.** Molecular Identification, probiotic Characterization, Anticancer Assessment and Encapsulation of Lactic Acid Bacteria Isolated from Vaginas of Iranian Fertile Women, 2015.
26. **Chan Teik Sin** (GS22982). **PhD.** Synthesis of High Oleic Palm-Based Trimethylolpropane Esters Using Calcium Methoxide Catalyst as Lubricant Base Stock, 2015.
27. **Salahu Hamza Mohammed** (GS34770). **PhD.** GIS-based Aquifer Modeling for Pollution Vulnerability and Water Quality Assessments Using Geo-Environmental Indices in Kano, Nigeria, 2015.
28. **Nurliyana Abdul Raof** (GS35682). **MSc.** Development of Palm Based Neopentyl Glycol Diester, 2015.
29. **Mohammed Riyadh Khaleel** (GS33523). **MSc.** Performance of Electrolysis and Granular Activated Carbons for Leachate Treatment of Jeram Sanitary Landfill. 2015.
30. **Shahirah Binti Manap** (GS36898). **MSc.** Carboxymethyl Cellulase and Filter Paperase Biosynthesis by Locally Isolated *Streptomyces Lucitanus* C5/2 Using Submerged Fermentation on napier Grass. 2016.
31. **Soroush Soltani** (GS37521). **PhD.** Surface Functionalization of Polymeric Mesoporous Nanocrystalline Catalysts for Methyl Ester Production via Solvo-Thermal methods. 2016.
32. **Wong Jia Li** (GS42002). **MSc.** Preparation and Characterization of Acrylated Epoxidied *Jatropha* Oil (AEJO) Based Containing Fillers (ZnO and GNP) Anticorrosion Coating. 2017.

33. **Muhammad Mirza Bin Ariffin (GS42128). MSc.** Synthesis and Characterization of Jathopha Oil-Based Hybrid Polyurethane Acrylate Anti-Corrosive Coating Using Ultraviolet (UV) Irradiation Technique. 2017.
34. **Hunaidah Binti Ramli (GS36195). MSc.** Rubber Wood Sawdust Fermentation by Indigeneous Lignocellulolytic Fungal for Cellulase Production. 2017.
35. **Mufida Ibrahim Mkharem (GS45220). PhD.** Determination of Additional Access Door Location for a Traditional House in Libya to Reduce Evacuation Time. 2019.
36. **Nurhazwani Binti Ismail (GS45657). PhD.** Production of Powder form Coagulant from Jatropha Curcas Liquid Extract for Application in Water Treatment. 2023.

*Professional  
Experience/  
Consultancy*

## 6. PROFESSIONAL EXPERIENCE / CONSULTANCY

### Consultancies

1. **Consultant.** - To conduct carbon footprint calculation at Bintulu Port lease area as a green port initiative. Bintulu Port, Sarawak, Jun 2020 - November 2020, Project Cost RM100K.
2. **Industrial-University Attaché (Advisor)** – Sustainable Aviation. Aerospace Malaysia Innovation Centre (AMIC) Research & Technology Division. 2017-18, Project Cost RM100K.
3. **Consultant.** CAL Engineering & Industrial Services Sdn Bhd on Oily wastewater treatment and water reuses in oil and gas industry. 2016-18, RM 110.5K.
4. **Consultant.** “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.
5. **Consultant.** “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.** “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.** Malaysia-Production of Geotextile Using Kenaf, Emas Kiara Industries Bhd, CFC-IJSG-UNIDO project, RM 250K, 2009 - 2011.
9. **Consultant.** “Process Design of a Multi-Purpose Miniplant for Biodiesel Production” project, Solution Engineering Sdn. Bhd, RM 3K, 1 Sept-30 Nov 2009.
10. **Consultant.** “Design Calculation of an Economizer” project, Kawan Dinamik Sdn Bhd, RM 2K, 1Nov 2008 - Dec 2008.

11. **Consultant.** “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.** “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.** Pembinaan Prestamaju Sdn Bhd., Seremban, Negeri Sembilan. 2007 - 2010.

### Workshop Organizer/ Programme Coordinator

#### a) Workshop Organizer/ Programme Coordinator

1. **Workshop Organizer.** UV Curable Polymer and Its Applications Workshop. UPM, 25-26 April, 2019.
2. **Workshop Organizer.** Wood Plastic Composite (WPC) Workshop for FIDEC and MITB, 23 - 24 June, 2011.
3. **Programme Coordinator.** UPM-LGM Postgraduate Diploma Program Preparation Committees, 2011-2012.

### Industrial Collaborations

1. **Project Leader.** Technical Collaboration between Department of Chemical & Environmental Engineering in “Development of Aerobic Treatment of Bast-Kenaf Fibre Water-Retting Wastewater Using MBR”, HPC Water Systems (M) Sdn. Bhd., Kuala Lumpur, 2011.
2. **Project Leader.** Technical Collaboration between INTROP and Polycomposites in “Utilization Agrowastes into Biocomposites” Polycomposite Sdn Bhd, Kajang, Selangor, 2011.
3. **Project Leader.** Technical Cooperation in Development of Improved Energy Efficiency “Ecoglass” using PCM, Eco Glass Technology Sdn Bhd, Petaling Jaya, Selangor, 2010.

## Trainers

1. **Trainer.** Wood Plastic Composite (WPC) for staff of FIDEC, MITB and Industry. 2011.
2. **Trainer.** “Customized Training for Emergency Response Team” for TM Research and Development, Putra InfoPort, TMR&D, 18 - 19 September 2006.

## Keynote Speaker

1. **Keynote Speaker.** The 6<sup>th</sup> International Conference on Wood and Biofibre 2023’ (WOBIC2023), INTROP, UPM, Langkawi, 23– 25th November 2023.
2. **Keynote Speaker.** The 5th Int. Symposium of Food, Vegetable and Fruits 2023 (ISFVF 2023). Nottingham University Malaysia, Kuala Lumpur, 22-23 June 2023.
3. **Keynote Speaker.** 6<sup>th</sup> International Conference on Chemical & Bioprocess Engineering- 2<sup>nd</sup> International Symposium on Carbon & Functional Materials for Energy & Environment (ICCBPE-CMEE 2023), UMS, 22–25, February, 2023.
4. **Keynote Speaker.** International Engineering Research Conference, 18th EURECA 2022, Taylor’s University, Subang Jaya, 30<sup>th</sup> November 2022.
5. **Keynote Speaker.** The 5th International Conference on Engineering Professional Ethics and Education 2022 (ICEPEE’22). IIUM, Kuala Lumpur, 9th -10th August 2022.
6. **Keynote Speaker.** The First International Conference on Oil and Gas Industry Technologies and Applications 2021, University Malaysia Sabah, Kota Kinabalu, Sabah. (Online), 9- 10 December 2021.
7. **Keynote Speaker.** The First International Conference on Energy Materials. Xiamen University Malaysia, Sepang, Selangor. (Online), 5- 8 November 2021.
8. **Keynote Speaker.** The 2nd Energy Security and Chemical Engineering Congress (ESChE 2021). Universiti Malaysia Pahang. (Online), 3-5 November 2021.
9. **Keynote Speaker.** National Symposium of Polymeric Materials (NSPM 2011), Universiti Teknologi Malaysia, 27 December 2011.

10. **Keynote Lecture.** 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”.

### Invited Speaker (Outside UPM)

1. **Invited Speaker.** Green Nanotechnology Innovations in Biobased Materials: An Overview. The 6<sup>th</sup> Wood and Biofibre International Conference 2023 (WOBIC 2023), 23-25 November 2023, Langkawi, Kedah.
2. **Invited Speaker.** Jatropha Oil as Renewable Resources for Bio-Based Polyurethane and Its Applications. International Symposium on Biopolymer & Derivatives. (Virtual), 6-7 July 2023, INTROP, UPM.
3. **Invited Speaker.** Publish and Flourish: How to Write a Good Journal Paper. Xiamen University Malaysia (online), 29 November 2022.
4. **Invited Speaker.** Agricultural Waste 2022 (Virtual). Graduate School of Chinese Academy of Agricultural Science, Tianjing, China, 29<sup>th</sup> October 2022.
5. **Invited Speaker.** The Engineering and Technology Week 2022 Seminars. MySET, 17<sup>th</sup>- 21<sup>st</sup> May 2022.
6. **Invited Speaker.** Post Graduate Student Supervision Workshop” for Manipal International University. UPM, 14 Mac 2022.
7. **Invited Speaker.** Biotechnology Research Institute Sharing Session. UMS, Sabah. (Online), 16th November 2021.
8. **Invited Guest Speaker.** INTI International University (Online), 23 June 2020.
9. **Invited Panel Speaker.** IUKL Research Workshop 2019. IUKL University, Kajang, 20 December 2019.
10. **Invited Speaker.** Wood and Biofiber International Conference 2019 (WOBIC 2019), Kota Kinabalu, Sabah, 3-5 December 2019.
11. **Invited Speaker.** Bachelor Programme of Chemical Engineering, Xiamen University Malaysia, 5 November 2019.

12. **Invited Speaker.** “From Google Scholar to Most Cited Journal”. International Islamic University College Selangor (KUIS). 26 December 2017, Kajang, Selangor.
13. **Invited Speaker.** School of Engineering and Physical Science. Heriot Watt University Malaysia. 25 October 2017.
14. **Invited Speaker.** Research Methodology Workshop. Politeknik Sultan Idris Shah, Sungai Air Tawar, Selangor. 14 September 2017.
15. **Invited Speaker.** Seminar on Research Methodology. Politeknik Sultan Idris Shah, Air Tawar, Perak, 14 September 2017.
16. **Invited Speaker.** Talk on Research Collaboration. Heriot Watts University Malaysia, Putrajaya, 25 October 2017.
17. **Invited Speaker.** Taiwan-Japan Joint Symposium on Particle Technology, Tao-Yuan, Taiwan, 22 September 2014.
18. **Invited Speaker.** “PhD Industry”, Cyber Security Sdn Bhd, 26 February 2014.
19. **Invited Speaker.** “PhD Industry”, Institution of Engineers Malaysia (IEM), 7 December 2013.
20. **Invited Speaker.** 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.
21. **Guest Speaker.** Sinclair Knight Merz Sdn. Bhd., in conjunction of World Safety and Health Day. 28 April 2010, Mont Kiara, Kuala Lumpur.
22. **Invited Speaker.** Malaysian Institute of Food Technology (MIFT) organized Forum “Melamine in Food: Risk and Safety Issues”, 16 December 2008, Subang Jaya, Selangor.
23. **Invited Speaker.** Seminar on Medicinal and Aromatic Plants 2008, 21-22 October 2008, FRIM, Kuala Lumpur.
24. **Guest Panelist Speaker.** Industrial Panelist Discussion Forum at HVAC Conference 2008, 13-14 May 2008, Hotel Park Royal, Kuala Lumpur.
25. **Invited Speaker.** 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.

## Invited Speaker (UPM)

1. **Invited Speaker.** “Kursus Penyelidikan Dan Khidmat Profesional Bagi Kumpulan Pengurusan Dan Profesional (Akademik) Siri 1/2023”, Universiti Putra Malaysia, 9<sup>th</sup> August 2023.
2. **Invited Speaker.** “Kursus Penyelidikan Dan Khidmat Profesional Bagi Kumpulan Pengurusan Dan Profesional (Akademik) Siri 1/2022”, Universiti Putra Malaysia, 2<sup>nd</sup> Mac 2022.
3. **Invited Speaker.** Webinar How to Publish a Quality Paper, Faculty of Engineering, UPM, 6 Mac 2022.
4. **Invited Speaker.** “Kursus Penyelidikan Dan Khidmat Profesional Bagi Kumpulan Pengurusan Dan Profesional (Akademik) Siri 2/2021”, Universiti Putra Malaysia, 3<sup>rd</sup> August 2021.
5. **Invited Speaker.** Scientific Writing Workshop: Tips and Advice to Publish in High Impact Factor Journals (Online). INTROP UPM, 2020.
6. **Panel Speaker.** Bengkel Pemanapan dan Integrasi Proposal (Kluster 1 Teknologi, Kejuruteraan dan ICT), RMC, UPM, 23 October 2019.
7. **Invited Speaker.** Civil Engineering Colloquium 2019, Port Dickson, Negeri Sembilan, Department of Civil Engineering, UPM, 18 August 2019.
8. **Invited Speaker.** Q1 Q2 Journal Writing Workshop 2019, Faculty of Engineering, UPM, 18 July 2019.
9. **Invited Speaker.** “Q1 Journal Writing Workshop”. ITMA, UPM, 23-24 May 2017.
10. **Invited Speaker.** Fire Safety. Faculty of Engineering, UPM, 2 February 2016.
11. **Invited Speaker.** INTROP Scientific Writing Workshop, UPM, 23-24 Oct 2012.
12. **Invited Speaker.** Chemical Handling and Personal Protection Equipment (PPE), INTROP, UPM, 19 March 2008.
13. **Invited Lecture.** EOH 3303-Process Persekitaran dan Perindustrian Program Bachelor Sains (Kesihatan Persekitaran dan Perindustrian)-18 March 2008, FPSK, UPM.
14. **Invited Lecture.** EOH 3303-Process Persekitaran dan Perindustrian Program Bachelor Sains (Kesihatan Persekitaran dan Perindustrian), 3 April 2007, FPSK, UPM.

## In-Kind Income Generation

1. **UV-Coating Curing Machine**, Forest Research Institution Malaysia (FRIM). Value: RM 103, 615.

## Community Services

1. **Committee.** Project Kesedaran: Penggunaan Kertas Kitar Semula, 2019 Peringkat Daerah. INTROP, 17 July 2019.
2. **Official launce the Open Ceremony** of Academic Achievement Awards of SMK PUTRAJAYA PRESINT 8(1), Putrajaya, 7 April 2018.
3. **Expert Reference and Program Operator.** Corporate Social Responsibility Program 2017-Sekolah Menengah Kebangsaan Puchong Batu 14, MISC Berhad, 22 February 2017.
4. **Project Assistant.** the Community Service Project “Mobile Clinic” held at the Gombak orang asli settlement; 7th October 2001 supported by Rotaract Club of Pudu.

## MEMORANDUM OF AGREEMENTS (MOAs) Signed

1. **MOA.** Enhancing Bio-Based Polyamide 11 for Engineering Application. UTM-IIUM-UMP-UPM, 2019.
2. **MOA.** Synthesis and Characterization of Palm-Based Alkanolamide Polyols From Palm Oil Derivatives For Polyurethane Products. UPM-MPOB, 2019.

## MOAs Involved

- i) Between 2012 and 2012, during my service at SGS, UPM, I had played an active role and contributed significantly towards the University’s internationalization strategy. SGS has been able to build ties with many universities from all over the world through MOAs, and has collaborated with them in various forms of activities such as student/staff exchange, research collaboration, dual/joint

degrees, joint academic activities, joint training. The list of MoAs I coordinated with SGS as follows:

Bil.	University	Date Signed	Type	Remarks
1	Ajou University, South Korea	16/1/2013	MoA	Dual Master of Science in Computer Science
2	Kyushu Institute of Technology	1/4/2013	MoA	Dual PhD Degree in disciplines related to Life Sciences and Systems Engineering - There are 6 students enrolled into the programme namely: <ul style="list-style-type: none"> <li>• Vizy Nazira Riazuddin (GS37711)</li> <li>• Noor Azira Abdul Mutalib G(S39923)</li> <li>• Ng Chi Huey (GS42988)</li> <li>• Yuya Hashiguchi (GS43260)</li> <li>• Dhurga Devi A/P Rajaratanam (GS38734)</li> <li>• Siti Suliza Salamat (GS39534)</li> </ul>
3	M. Auezov South Kazakhstan State University	1/4/2013	MoA	Dual PhD and Dual Master of Science in Computer Science and Mathematics
4	University of Newcastle	10/6/2013	MoA	Joint PhD Degree
5	The University of Nottingham	11/7/2013	MoA	Dual PhD Degree <ul style="list-style-type: none"> <li>• The programme has one student namely Ms. Tay Sook Hui (GS 36597). She is doing her PhD in Molecular Medicine.</li> </ul>
7	University of Southern Queensland	1/4/2014	MoA	Dual PhD Degree

- ii) Coordinating MOA signed between The Human Life Advancement Foundation and Universiti Putra Malaysia on **Human Life Advancement Foundation Science & Technology Scholarships** with 4 allocations annually, up to USD 15,000 each.

## Invitation to Expos

Invitation to Expo	Organizer
MPOB Transfer of Technology (TOT) Expo 2004, MPOB, Bangi, 24 June 2004.	MPOB
Pameran Penyelidikan UPM, Pesta Konvokesyen ke 28, Bukit Expo, 16-18 Julai, 2004.	RMC, UPM
Pameran Kegemilangan Penyelidikan Sempena Syarahan Umum oleh Nobel Laureate, UPM, 19hb Julai 2004.	RMC, UPM
Pameran Penyelidikan Fakulti kejuruteraan, Ekspo Konvokesyen ke-29, 29Julai-2 Ogos, 2005.	Fakulti Kejuruteraan, UPM