

CURRICULUM VITAE

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A. Biodata

Name: Prof. Ir. Ts. Dr. Suraya Abdul Rashid, Ceng MIChemE
Position: Professor
Affiliation: Department of Chemical & Environmental Engineering,
Faculty of Engineering, UPM.
Position: Deputy Director
Institute of Nanoscience and Nanotechnology, UPM.
Position: Chief Scientist
Affiliation: Qarbotech Sdn. Bhd.



Field of Specialisation: Nanomaterials synthesis and processing, Nanocomposites,
Nanotechnology applications.

Identity Card Number: 780622-14-5504

Date of Birth: 22 June 1978

Contact: Mobile Phone:019-2714473
E-mail: suraya_ar@upm.edu.my

Language competency :Bahasa Malaysia, SPM A1
English, SPM A1

B. Education and academic qualifications

Degree	Class/Achievement	University Awarded	Year
PhD	Doctor of Philosophy	Imperial College London, United Kingdom	2004
First degree	B.Eng (hons) Chemical Engineering	University of Nottingham, United Kingdom	2000

C. Administrative duties and other appointments

No	Position	Department/Faculty/Other Institution	Year
1	Deputy Director	Institute of Nanoscience and Nanotechnology	2021-2024
2	Head	Materials Processing and Technology Laboratory, Institute of Advanced Technology, UPM	2015-2021
3	Member	Quality Assurance Board, Faculty of Engineering	2009 – 2010
4	Observing Auditor	Faculty of Engineering	2009 – 2011

5	Internal Auditor	Deputy Vice Chancellor (Research and Innovation)	2010 – 2011
6	Lead Auditor	Deputy Vice Chancellor (Research and Innovation)	2008 – 2010
7	Lead Auditor	Faculty of Engineering	2008 – 2009
8	Ketua Bidang Penyelidikan Pencirian dan Sintesis Bahan.	Jabatan Kejuruteraan Kimia dan Alam Sekitar	2009 – 2011
9	Document Control Officer	Quality Assurance Unit, Faculty of Engineering	2007 –2009
10	Research Associate	Institut Teknologi Maju, UPM	2008 - 2011
11	Assistant Document Control Officer	Quality Assurance Unit, Faculty of Engineering	2004 – 2007
	Safety Representative	Department of Chemical and Environmental Engineering	2000

D. Teaching Experiences

Code and Course Name	Credit
1. KKA 3703 – Chemical Engineering Lab III	(3+0)
2. KKA 3907 – Process Survey Project	(3+0)
3. KKA 3312 – Chemical Engineering Thermodynamics (L)	(0+1)
4. KKA 3312 – Chemical Engineering Thermodynamics (T)	(3+0)
5. KKA 5988 – Project (Ms)	(3+0)
5. KKA 4104 – Solid Waste Engineering (Ms)	(3+0)
7. KKA 3309 – Thermodynamics	(3+0)
3. KKA 5102 – Principles of Environmental Engineering (Ms)	(3+0)
9. ECH 3106 – Heat Transfer	(4+0)
10. ECH 3106 – Engineering Statistics	(3+0)
11. ECH 3101 – Material Science	(3+0)
12. KKA 5801 – Materials Characterization	(3+0)
13. ECH 4403 – Materials Characterization	(3+0)
14. ECH 4402 – Particle Technology	(3+0)
15. ECH 5804 – Corrosion Engineering	(3+0)
16. ECH 4404 – Nanomaterials Processing	(3+0)
17. ECH5501 – Atmospheric Risk Management	(3+0)

E. Recognitions and Awards

No.	Award/Recognition	Organisation Awarded	Date
1	Champion of the EQT Impact Challenge	EQT Foundation, Sweden	2023
2	Winner of the Khazanah Impact Innovations Challenge	Khazanah Nasional Dana Impak	2023
3	Gold Medal and Special Award at the iENA Tradeshow	iENA, Nuremberg, Germany	2023

4	Finalist Pahang Innovative Startup Accelerator	Yayasan Pahang	2023
5	Winner of the Climate Impact Innovations Challenge	Temasek Foundation Singapore & East Ventures Indonesia	2023
6	Winner of the Emerging Innovator Award Malaysia Commercialization Year Summit 2023	Ministry of Science, Technology & Innovation of Malaysia (MOSTI)	2023
7	Gold Medal and Special Award of the Engineering Innovations Exhibition 2023	Faculty of Engineering, UPM	2023
8	Petronas FutureTech 3.0 Top 20 Finalist	Petronas Ventures	2023
9	Shell LiveWire Malaysia National Winner	Shell	2023
10	Finalist Anugerah Akademik Negara, Anugerah Pengajaran Kategori Kejuruteraan	Malaysian Ministry of Higher Education (MOHE)	2022
11	Champion University Startup Challenge	Malaysian Global Innovation & Creativity Centre (MAGIC)	2021
12	Accelerate 2030 National Top 3 Finalist	Impact Hub Geneva (UNDP)	2021
13	Top 10 Finalist Alpha Startups	1337 Ventures	2021
14	Grand Winner Tech Planter Asia 2021	Leave A Nest Ltd	2021
15	Grand Winner of Tech Planter Malaysia 2021	Leave A Nest (M) Sdn. Bhd.	2021
16	Special Award Title: Best Paper Award (Food Engineering) - Mechanical Properties of Tapioca Starch-Based Film Incorporated with Bulk Chitosan and Chitosan Nanoparticle: A Comparative Study (FRGS Co-researcher)	4th International Conference of Agricultural and Food Engineering	2018
17	Anugerah Fellowship Naib Chancelor 2016, Universiti Putra Malaysia Pengajar Cemerlang Klaster Kejuruteraan	Universiti Putra Malaysia	2017
18	Bronze Medal Title: Photoluminescent Graphene Quantum Dots Derived from Biochar via A Green Subcritical Hydrothermal Method	PECIPTA, Kuala Terengganu	2017
19	Silver Medal Title: Photoluminescent Graphene Quantum Dots Derived from Biochar via A Green Subcritical Hydrothermal Method	International Invention, Innovation and Technology Exhibition, ITEX2017-05-16 Kuala Lumpur Convention Centre	2017
20	Gold Medal Title: Photoluminescent Graphene Quantum Dots Derived from Biochar via A Green Subcritical Hydrothermal Method	Pameran Rekacipta Penyelidikan dan Inovasi	2016
21	3 rd Place Title: Photoluminescent Graphene Quantum Dots Derived from Biochar via A Green Subcritical Hydrothermal Method	Pertandingan Projek Penyelidikan Inovasi Nanoteknologi Peringkat Kebangsaan	2016
22	Jemputan penceramah "Recent trends in Nanotechnology" 2016	Universiti Teknikal Malaysia	2016
23	Anugerah Perkhidmatan Cemerlang	UPM	2015

24	Anugerah Kecemerlangan Dalam Pengajaran	Fakulti Kejuruteraan UPM	2012
25	Silver Medal Title: Theoretical prediction and Experimental validation of the Tensile Response of Hierarchical CNT-CF/PP Composite	Pameran Rekacipta, Penyelidikan and Inovasi Malaysia	2012
26	Silver Medal Title: Production of High Strength Concrete using SiO ₂ Nanoparticles and Agro-waste Rice Husk Ash	Pameran Rekacipta, Penyelidikan and Inovasi UPM	2011
27	Anugerah Pengajar Muda	UPM	2009
28	Anugerah Pengajar Cemerlang	Fakulti Kejuruteraan UPM	2008
29	Gold Medal Title: Super Strong Carbon Fibre Reinforced Composites by Thick Ultra Pure Carbon Nanotube Coatings	Pameran Rekacipta, Penyelidikan and Inovasi UPM	2008
30	Silver Medal Title: New Perspective Polyurethane/Clay Nanocomposites For Fire Retardant To Complying Sustainable Development (Co-researcher)	International Invention, Innovation and Technology Exhibition, 18 th ITEX,	May 2007
31	Bronze Medal Title: Innovation Technique of Introducing Ferrocene in the Whiskerization Treatment of Carbon Fibers.	Pameran Rekacipta, Penyelidikan dan Inovasi UPM	2007
32	Bronze Medal Title: Whiskerization Treatment: A Novel Application of Carbon Nanotubes for Enhancing Mechanical Properties of Carbon Fiber Composites	Pameran Rekacipta, Penyelidikan dan Inovasi UPM	2007
33	Anugerah Perkhidmatan Cemerlang	UPM	2006
34	Bronze Medal Title: New Prospective Polyurethane/Clay nanocomposites for Fire Retardant to Complying Sustainable Development (Co-researcher)	Pameran Reka Cipta, Penyelidikan dan Inovasi, UPM	2006

F. Academic duties

No.	Title	Level (International/National/University/Faculty /Department)	Year
1	Mentor & Jury	AFNC 2022, UPM	2022
2	Mentor & Jury	AFNC 2021, UPM	2021
3	Mentor & Jury	AFNC 2020, UPM	2020
4	Mentor & Jury	AFNC 2019, UPM	2019
5	Jury	PICTL2019, UPM	2019
6	Mentor & Jury	AFNC 2018, UPM	2018
7	Jury	PICTL2018, UPM	2018
8	Committee	PutraMOOC, UPM	2017

9	Student Academic Advisor	Department of Chemical and Environmental Engineering	2004 – until now
10	Committee	Jawatankuasa Pembentukan Program Bachelor (Material Science Engineering)	2008
11	Committee	Jawatankuasa Pembentukan Program MS Environmental Engineering and MS Environmental Technology Management	2008 – until now

G. Supervision of students

a. PhD Degree

No.	Name of Students and Title of Thesis/Project	Main Supervisor/ Co-supervisor	Status (Completed/ On-going)
1	Nur Iman Syafiqah Muhammad Nasruddin (GS61305) Preparation And Characterisation Of Carbon Quantum Dot Polymer Film for Smart Packaging	Main Supervisor	On-going
2	Du Xuan (GS61305) Electrospun chitosan/cellulose nanomembranes for water treatment		
3	Mahnoush Beygisangchin (GS53882) Synthesis and Characterization of Polyaniline Graphene Quantum Dots Nanocomposite for Detection of PAH	Main Supervisor	Completed (2022)
4	Mohd Firdaus Bin Abdul Rahman (GS38842) Light weight and Flexible Graphene-based PVA Nanocomposites for High-Performance Electromagnetic Interference (EMI) Shielding	Main Supervisor	Completed (2019)
5	Syazwan Afif Mohd Zobir (GS37024) Synthesis and Characterization of Graphene Derivatives from GNF for Supercapacitor Applications.	Main Supervisor	Completed (2018)
6	Nasser Abdullah Mohammed (GS38421) Synthesis and Characterization of NBR nanocomposites	Main Supervisor	Completed (2017)
7	May Ali Muslim (GS39711) Synthesis and characterization of Multi-Layer Graphene on Alumina Substrate Al ₂ O ₃ by Chemical Vapour Deposition for Gas Sensing	Main Supervisor	Completed (2017)
8	Saeed Rahmanian (GS30956) Mechanical Properties of CNT/Carbon Fibre Reinforced Composites.	Main Supervisor	Completed (2015)

9	Alireza Najigivi (GS 19896) Development of High Performance Concrete using Rice Husk Ash and Silica Nanoparticles.	Main Supervisor	Completed (2011)
10	Siti Hajar Binti Othman (GS17837) Synthesis, Characterization, and Determination Of The Photocatalytic Properties of Titanium Dioxide Nanoparticles.	Main Supervisor	Completed (2011)
11	Norhazirah Nordin (GS48541) Physicochemical and Antimicrobial Characterization of Nanocellulose/Starch-based Film Incorporated with Thymol	Co-Supervisor	On-going
12	Dina Kania (GS42706) Polyol ester biolubricant as a differential sticking reducer in synthetic-based drilling fluid.	Co-Supervisor	Completed (2019)
13	Siti Zulaikha Razali (GS42616) Carbon based nano materials as filtrate reducer for ester-based drilling fluid.	Co-Supervisor	Completed (2019)
14	Mohammed Abdullah Issa Al-Badri (GS47963) Sustainable synthesis of fluorescent nitrogen-doped carbon-dots from cellulose of oil palm empty fruit bunch (efb) for selective detection heavy metals in contaminated water.	Co-Supervisor	Completed (2019)
15	Musa Yahaya Pudza (GS46332) Sustainable green production of fluorescent quantum carbon-dots from biomaterials for real time selective detection of heavy metals in aqueous media.	Co-Supervisor	Completed (2019)
16	Suria Mohd Saad (GS43577) Graphene Quantum Dots DNA-Sensor and test strip for the detection of E.Coli	Co-Supervisor	Completed
17	Saidykhan Jerro (GS50699) Fluorescent carbon nanomaterial based sensors for healthcare application.	Co-Supervisor	Withdraw
18	Hamra Assyaima Abdul Basyid (GS43823) Synthesis of graphene-based materials for supercapacitor applications.	Co-Supervisor	Completed (2019)
19	Noor Fadzilah Mohamed Sharif (GS45158) Utilization of graphene quantum dots (gqds) for enhancing visible light harvesting in dye- sensitized solar cell.	Co-Supervisor	Completed (2019)

20	Buda Samaila (GS41363) Enhancement of dye-sensitized solar cell power conversion efficiency by improving carrier generation and charge collection.	Co-Supervisor	Completed (2017)
21	Lina Jassim (GS34008) Preparation and Evaluation of Esteramides as Synthetic Based Drilling Fluids	Co-Supervisor	Completed (2015)
22	Ferial Ghaemi (GS3469) Synthesis of Different Types of Carbon Nanostructure on Carbon Fiber and Their Application as Fillers in Polypropylene Composite	Co-Supervisor	Completed (2015)
23	Mohd Shahnan Bin Zainal Abidin (GS26371) Thermal Management of Nonlinear Optical Properties Measurement by Z-scan Technique with High Repetition Rate Femtosecond Laser	Co-Supervisor	Completed (2014)
24	Zainab Yunusa (GS31782) Development of Double Surface Acoustic Wave System for Gas Sensing Applications	Co-Supervisor	Completed (2014)
25	Teuku Rihayat (GS13533) Study on The Formulation and Properties of Polyurethane/Clay Nano Composites for Weather Protection Systems Application	Co-Supervisor	Completed (2008)
26	Ma'an Fahmi Rashid Al Khatib (GS06457) Methane Gas Adsorption Storage On Carbonaceous Materials	Co-Supervisor	Completed (2007)

b. Masters Degree

No.	Name of Students and Title of Thesis/Project	Main Supervisor/ Co-supervisor	Status (Completed/ On-going)
1	Nur Afif Nadhrah Kamaruzaman (GS65835) Enhancing the Luminescence of CQD from Biochar by Tuning Functional Groups Via Hydrothermal Synthesis	Main Supervisor	On-going
2	Yamuna Chowmasundaram (GS58683) Photoluminescence and Electron Transfer Mechanism of Carbon Quantum Dots-Chloroplast Complex For Photosynthesis Augmentation	Main Supervisor	Completed (2023)
3	Alif Syafiq Kamarol Zaman (GS49765) Production of Carbon Dots by Microwave and Their Effects on Algal growth	Main Supervisor	Completed (2019)

4	Tharani A/P Kulandaivalu (GS45783) Conversion of CO ₂ using Photocatalytic GQD/Cu ₂ O nanocomposites	Main Supervisor	Completed (2018)
5	Nurul Infaza Talalah Binti Ramli (GS38026) Synthesis, Characterization and Electrochemical Performance of Hybrid GNF/CNT for Energy Storage Applications	Main Supervisor	Completed (2015)
6	Bidita Salahuddin (GS31389) The Effect of Fuel Additive on the Preparation, Characterization and Exhaust Emission of Water in Diesel Nanoemulsion Fuel	Main Supervisor	Completed (2014)
7	Shazed Aziz (GS26931) Experimental and Theoretical Evaluation of CNT Coating on the Tensile Properties of CNT-CF Hybrid Composite	Main Supervisor	Completed (2013)
8	Fariba Mahdavi (GS34434) Intercalation of Urea into Kaolinite Nanolayers.	Main Supervisor	Completed (2012)
9	Siti Norazian Ismail (GS16994) Investigation of Floating Catalyst Chemical Vapour Deposition for the Development of CNT-coated Carbon Fibre Reinforced Composite	Main Supervisor	Completed (2010)
10	Sharifah Mazrah bt Sayed Mohamed Zain (GS16530) Enhancing Tensile Properties Of Carbon Fiber Reinforced Polypropylene Composite By Carbon Nanotube Coating.	Main Supervisor	Completed (2009)
11	Christina Vargis A/P Jonas (GS15090) Development of Surface Treatment Process On Carbon Fibre Via Catalytic Chemical Vapour Deposition.	Main Supervisor	Completed (2007)
12	Che Nur Hamizah Che Lah (GS45807) Detection of lard via fluorescence fiber probe sensor utilizing graphene quantum dots.	Co-Supervisor	Completed (2017)
13	Farahnaz Eghbali (GS33478) Development of Coating Process Technology To Produce Controlled- Release Fertilize	Co-Supervisor	Completed (2015)
14	Muhammad (GS14542) Kinetic Modelling of Free Fatty Acid Using Low Cost Adsorbent.	Co-Supervisor	Completed
15	Raja Nor Izawati bt Raja Othman (GS14390) Title: Synthesis and Characterisation of Carbon Nanofibre and Nanotube for Biological Application.	Co-Supervisor	Completed
16	Min Min Aung (GS13372) Title: Synthesis and Characteristics of Biodegradability and Composibility of Polymeric Materials in Oil Palm.	Co-Supervisor	Completed
17	Jeefrie Abd Razak (GS17226) Effects of Melt Blending Parameters To The Final Properties Of Mwcnts Filled Pp Nanocomposites.	Co-Supervisor	Completed
18	Setareh Monshi Toussi (GS18548)	Co-Supervisor	Completed

	The Effect of Catalyst On The Diameter Of Single-Walled Carbon Nanotubes Via Chemical Vapor Deposition.		
19	Lim Siang Ying (GS25274) Continuous Production of Carbon Nanotubes in Fluidized Bed	Co-Supervisor	Completed
20	Azhari (GS14541) Synthesis of Low Pour Point Palm Diesel.	Co-Supervisor	Completed

c. Masters by coursework degree

No.	Name of Students and Title of Thesis/Project	Main Supervisor/ Co-supervisor	Status (Completed/ On-going)
1	Izzah Farhana Ab. Aziz Reduction of Phosphorus in Synthetic Wastewater by using Crushed Waste Concrete	Main Supervisor	Completed (2020)
2	Nasriah Binti Johaidi The impact of electrical vehicles on the environment	Main Supervisor	Completed (2020)
3	Khairol Nisa Binti Rosli Research On Indoor Environmental Quality (IEQ) for Chemical and Environmental Engineering Laboratory in Engineering Faculty, Universiti Putra Malaysia	Main Supervisor	Completed (2019)
4	Mahmoud Ali Gabir Mohamed	Main Supervisor	Completed (2018)
5	Jason Ng Keng Loon Carbon Quantum Dots as Alternative Fertilizer in Agriculture	Main Supervisor	Completed (2018)
6	Syed Ahmad Syed Sheikh Preparation and Optical Characterization of Carbon Quantum Dots for Metal Ion Detection	Main Supervisor	Completed (2018)
7	Amel Alsalah Ahmed Alsayed Feasibility Study of Carbon Capture Through a Photosynthesis Augmentation Strategy	Main Supervisor	Completed (2018)
8	Sumeshini A/P Subramaniam Flood Analysis in Sibu Sarawak	Main Supervisor	Completed (2017)
9	Lau Mei Zhu Ammonia Removal in Rubber Glove Wastewater by Introducing Anoxic Process Before SBR	Main Supervisor	Completed (2016)
10	Nurul Alia binti Mohd Rosli Comparitive Study on Pre-Treatment Methods for Vacuum Metalization of ABS Polymer	Main Supervisor	Completed (2016)

11	Norhanisah binti Jamaludin Biochar as a Green Source to Synthesize Photoluminescent Materials	Main Supervisor	Completed (2016)
12	Asmarani binti Ahmad Puzi Effects of Additives on the Emission Properties of Biodiesel-Diesel Emulsion Fuel	Main Supervisor	Completed (2015)
13	Umar Abdulbaki Danhassan Modified Emission Properties of Different Biodiesel/Diesel Blend Emulsion Fuels by Cerium (IV) Oxide	Main Supervisor	Completed (2015)
14	Bitu Roshanravan Nitrogen Release Properties of Urea-Kaolinite Controlled Release Fertilizer with Chitosan Binder	Main Supervisor	Completed (2014)
15	Nor Ajeerah binti Mohd Noh Effects of Combustion Properties on Biodiesel-Diesel Emulsion with Different Surfactants	Main Supervisor	Completed (2014)
16	Siti Roshana binti Azahari Emission Properties of Different Biodiesel/Diesel Blend Emulsion Fuels	Main Supervisor	Completed (2014)
17	Mahmood Zohoori Relationship Between Information System Components, Trust and User Satisfaction in Terms of Using Green Processes and Technology	Main Supervisor	Completed (2013)
18	Tan Shu Woei Application of Waste Chicken Eggshell As Solid Catalyst for Bio-Oil Extraction from Waste Cooking Oil	Main Supervisor	Completed (2013)
19	Baiyinah binti Haji A. Talip Adsorption of Nickel from Aqueous Solution on Low Cost Adsorbent Develop from Coconut Husk	Main Supervisor	Completed (2013)
20	Aishah binti Mahpudz Effect of Spray Drying Active Coagulant Agent Extracted from Jatropha Curcas Seed on Its Efficiency to Remove Turbidity in Wastewater	Main Supervisor	Completed (2013)
21	Siti Fairus binti Sahul Hamid Palm Oil Mill Effluent (POME) Treatment Using Vermifiltration and Optimization of Loading Rate	Main Supervisor	Completed (2013)
22	Pui Wee Kong Pollution Control in Paper Mill Effluent Using Integrated Physical-Chemical and Biological Treatment A Case Study of Pascorp Paper Industries Berhad	Main Supervisor	Completed (2013)
23	Raihani binti Che Mat Study of Bulky Waste Management of Household Area at Desa Pinggiran Putra, Sepang, Selangor	Main Supervisor	Completed (2013)
24	Atika binti Agus Air Quality in Selangor Area (2009-2012) and Evaluation of Air Pollution Management and Reduction Strategies	Main Supervisor	Completed (2013)
25	Rosniah binti Che Abdullah Effect of Emulsion and Cerium Oxide Additive in Diesel Emission Characteristics	Main Supervisor	Completed (2013)

26	Jenny Liew Jen Yi Assessment of CO ₂ Emission and Development of a Carbon Footprint Calculator for UPM Students	Main Supervisor	Completed (2012)
27	Gamal Eldin Omer Kari Kabir Removal of Reactive Dyes from Aqueous Solution Using Electric Arc Furnace Slag	Main Supervisor	Completed (2012)
28	Siti Noorhaniah binti Yusoh Development of Urea Coated Granules Using Gypsum, Kaolinite and Sulfur for Controlled Release Fertilizer Application	Main Supervisor	Completed (2012)
29	Mustapha Mohammed Bello Fixed-Bed Column Adsorption for Color Removal from Pome Using Resin As Adsorbent	Main Supervisor	Completed (2012)
30	Noor Husaiha binti Hussain Adsorption of Heavy Metals (Cadmium, Copper, Lead) from Wastewater by Using Rice Husk As Adsorbent	Main Supervisor	Completed (2012)
31	Muharniza Azinita binti Musa Simulation of Iron Particles Formation for Chemical Vapor Deposition Synthesis of Carbon Nanotubes	Main Supervisor	Completed (2010)
32	Nur Ilyani binti Mohamad Yusof Analysis of Carbon Nanotubes (CNT's) Grown on Granule Activated Carbon (GAC) in Removing Lead (Pb) from Synthetic Wastewater	Main Supervisor	Completed (2010)
33	Jessica Joannes Solidau Waste Management in Kota Kinabalu, Sabah: The Efficiency of Collection System	Main Supervisor	Completed (2010)
34	Syed Afzal Idid bin Syed Hussin Removal of Barium Ions from Synthetic Wastewater Using Carbon Nanotubes	Main Supervisor	Completed (2010)
35	Hafizah Nur Kamaruz-zaman A Water Quality Monitoring Study for the Town of Sungai Buloh, Selangor	Main Supervisor	Completed (2010)
36	Wan Fadli binWan Hassan Carbon Nanotubes (CNT) As Potential Adsorbent for Industrial Wastewater Treatment	Main Supervisor	Completed (2010)
37	Tan Lai Poh Total Volatile Organic Compounds (TVOCs) Dispersion Pattern from Ethanol Spill in a Chemical Lab	Main Supervisor	Completed (2009)
38	Nurul Huda binti Baharuddin Zinc (II) Adsorption Using Raw Rice Husks	Main Supervisor	Completed (2009)
39	Arie Jufrizal Rangkuti Case Study of Fire Safety Programme on Crude Oil Refinery Activity	Main Supervisor	Completed (2009)
40	Salsuwanda bin Dato' Selamat Phosphate Removal Using Aluminium-Doped Rice Husk Ash- Derived Silica	Main Supervisor	Completed (2008)
41	Che Zulzikrami Azner bin Abidin Removal of Copper from Aqueous Solution Using Rice Straw- Derived Char	Main Supervisor	Completed (2008)

d. Bachelor Degree

No.	Project	Name of Students and Title of Thesis/Project	Main Supervisor/ Co-supervisor	Status (Completed/ On-going)
1	Bachelor (Final Year Research Project)	Ainaa Nadhira Azman (188838) Adsorption of Copper Ions from Aqueous Solutions by Doped Zirconium-based Metal Organic Framework	Main Supervisor	Completed (2020)
2	Bachelor (Final Year Research Project)	Husna Abdul Somat (188659) Adsorption of Copper Ions from Aqueous Solutions by Zirconium-based Metal Organic Framework	Main Supervisor	Completed (2020)
3	Bachelor (Final Year Research Project)	Arvindran Nagasparan Preparation and Characterization of Nanocomposite Membrane	Main Supervisor	Completed (2019)
4	Bachelor (Final Year Research Project)	Poovarasi Krusnamurthy Metal Organic Framework-801 for Efficient Removal of Fluoride from Water	Main Supervisor	Completed (2019)
5	Bachelor (Final Year Research Project)	Leong Khai Kit (179069) Preparation and Characterization of Nitrogen-Functionalized Biochar-derived Carbon Quantum Dots.	Main Supervisor	Completed (2018)
6	Bachelor (Final Year Research Project)	Thanashanthini Sekar (172383) Effect of Co-Solvent type on the Properties of Graphene Quantum Dots obtained by Subcritical Water Process	Main Supervisor	Completed (2017)
7	Bachelor (Final Year Research Project)	MohamadAsrul Ab. Rani (166924) Photodegradation of Formaldehyde Gas Using Graphene Oxide Based Coating	Main Supervisor	Completed (2016)
8	Bachelor (Final Year Research Project)	Azman Azimin (168898) Synthesis of Nanoparticles in Palm Oil by Laser Ablation Technique	Main Supervisor	Completed (2016)
9	Bachelor	Muhammad Hafizie bin Mahmood (167205) Azman Azimin (168898)	Main Supervisor	Completed (2015)

	(Detailed Design Project)	Syahirah Faraheen binti Kabir Ahmad (167634) Nurashikin binti Yusriza (167631) Utilization of Syngas Derived from Palm Waste Biomass		
10	Bachelor (Final Year Research Project)	Nur Hafizatul Syazwani binti Hamdan (156310) Enhanced Heat Transfer Properties of Graphene Oxide Nanofluids	Main Supervisor	Completed (2014)
11	Bachelor (Final Year Research Project)	Nurul Syazwany binti Suwandi (151956) New Formulation of Gypsum and Dolomite with Cellulose-Based Polyols for Urea Coating	Main Supervisor	Completed (2013)
12	Bachelor (Final Year Research Project)	Lim Wen Dee (153502) Development of Urea Coated Granules for Controlled-Release Fertiliser Applications.	Main Supervisor	Completed (2013)
13	Bachelor (Final Year Research Project)	Ardeahsyah bin Alimudin (135436) Hierarchical Carbon Nanotubes on Carbon Fiber & Sized Carbon Fiber	Main Supervisor	Completed (2010)
14	Bachelor (Final Year Research Project)	Jacklyn Yong WaiTeng (139229) Effects of α -Nanoalumina and Titanium Dioxide as Nanofillers in Polypropylene Nanocomposite	Main Supervisor	Completed (2010)
15	Bachelor (Final Year Research Project)	Lum Wen Kang (138095) Characterization of Carbon Nanotubes Coating on Carbon Fiber: Anchorage and Population Density	Main Supervisor	Completed (2010)
16	Bachelor (Detailed Design Project)	Mohd Zaki bin Jupri (123230) Thean Kean Sun (124154) Eric Loh Yean Enn (125911) Ahmad Akmal bin Azmi Production of 200,000 Tonnes Per Year Linear Low Density Polyethylene LLDPE	Main Supervisor	Completed (2008)
17	Bachelor (Detailed Design Project)	Chian Kah Wai (114883) Nor Hidayah Ibrahim (117048) Tieh Sing Ching (119691) Tan Siew Lan (115520) 680,000 Tons Per Annum Ammonia Production Plant	Main Supervisor	Completed (2007)

H. Publications

a. Scopus-Citation Indexed Journals

- 1) Du, X., Rashid, S.A., Abdullah, L.C., Rahman, N.A. Fabrication of electrospun cellulose/chitosan/ball-milled bone char membranes for efficient and selective sorption of Pb(II) from aqueous solutions. *Environmental Science and Pollution Research*, 2023, 30(51), pp. 110417–110430
- 2) Chowmasundaram, Y.A.P., Tan, T.L., Nulit, R., Jusoh, M., Rashid, S.A. Recent developments, applications and challenges for carbon quantum dots as a photosynthesis enhancer in agriculture. *RSC Advances*, 2023, 13(36), pp. 25093–25117
- 3) Elbidi, M., Resul, M.F.M.G., Rashid, S.A., Salleh, M.A.M. Preparation of eco-friendly mesoporous expanded graphite for oil sorption. *Journal of Porous Materials*, 2023, 30(4), pp. 1359–1368
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c. Proceedings

No	Authors	Year	Title	Name of Seminar/Conference
1	Yamuna Chowmasundaram, Tong Ling Tan, Suraya Abdul Rashid, Rosimah Nulit, Mashitah Jusoh	2021	Effects of Carbon Quantum Dots on Growth of Brassica Juncea under Grow Lights	5 th International Symposium on Advanced Materials and Nanotechnology, 2021
2	Yamuna Chowmasundaram, Tong Ling Tan, Suraya Abdul Rashid,	2020	Nitrogen doped Carbon Quantum Dots for Photosynthesis Enhance,ent of Brassica Juncea	4 th International Symposium on Advanced Materials and Nanotechnology, 2020

	Rosimah Nulit, Mashitah Jusoh			
3	Norhanisah Jamaludin, Suraya Abdul Rashid, Tongling Tan	2018	Extraction of Carbon Dots from Empty Fruit Bunch Biochar via an AcidFree Hydrothermal Method	2 nd International Symposium on Advanced Materials and Nanotechnology, 2018
4	Tharani Kulandaivalu, Suraya Abdul Rashid, Nordin Sabli, Tongling Tan	2018	Fabrication of Visible-Light Responsive CQDs/Cu ₂ O Nanocomposite for CO ₂ Photoreduction	2 nd International Symposium on Advanced Materials and Nanotechnology, 2018
5	May Ali, Suraya Abdul Rashid, Mohd Nizar Hamidon, Faizah Md Yasin, Farah Talib Jasim Al- Sudani, Ayodele Bamidele Victor	2018	Ammonia Sensing Using Multilayer Graphene Grown on Co-Ni/Al ₂ O ₃ Substrate	2 nd International Symposium on Advanced Materials and Nanotechnology, 2018
6	Alif Syafiq Kamarol Zaman & Suraya Abdul Rashid	2018	Microwave-assisted synthesis of carbon quantum dots from EFB biochar	31 st Symposium of Malaysian Chemical Engineers (SOMChe) 2018
7	Mohd Firdaus Abd Rahman, Suraya Abdul Rashid and Norizah Abdul Rahman	2016	Physical, thermal, and dielectric properties Enhancement in graphene/poly (vinyl alcohol) Nanocomposite as novel multifunctional materials	5 th International Conference on Production, Energy and Reliability
8	May Ali, Suraya Abdul Rashid, Mohd Nizar Hamidon, Faizah Md Yasin	2016	The Growth Kinetics of Multilayer Graphene Grown on Al ₂ O ₃ Substrate by Chemical Vapour Deposition	4 th International Conference on Process Engineering and Advanced Materials
9	Suraya Abdul Rashid, Zainab Yunusa, Ismayadi Ismail, Mohd Nizar Hamidon	2015	Synthesis of Graphitic Ribbons on Piezoelectric Substrate by CVD and its Application for Ammonia Sensing	9 th International Conference on New Diamond and Nano Carbon Materials, 2015, Shizuoka, Japan
10	Juraina Md Yusof, Mohamad Amran Mohd Salleh, Suraya Abd Rashid, Ismayadi Ismail	2015	Carbon Particles (CPs) derived from Dry Milled Biochar	Workshop on Advanced Materials and Nanotechnology
11	Suraya Abdul Rashid, Shutesh Krishnan, Hong Ngee Lim	2014	Thermal conductivity of Graphene Oxide Nanofluids,	International Conference on Diamond and Carbon Materials, 2014, Madrid, Spain
12	Rajesh Kumar, Suraya Abdul	2012	Preparation, Characterization of Chitosan/Modified Chitosan	International Conference on

	Rashid, Arun M Isloor		Novel Blends and its Nanofiltration Membranes for Desalination Application	Nanotechnology, Kuantan, Pahang
13	Suraya Abdul Rashid	2012	Carbon Nanotube Coating onto Carbon Fibre using Chemical Vapour Deposition for Nanocomposite Application	Nanomaterials Specialized Conference, UTM
14	Suraya Abdul Rashid, Muhammad Zamir Abdul Rashid, Muharniza Azinita Musa	2012	Comparison of Horizontal and Vertical Chemical Vapour Deposition Reactor for the Production of Hierarchical Carbon Fibres	Asia Pacific Conference on Chemical Engineering, Singapore
15	Shazed Aziz, Suraya Abdul Rashid, Mohd Amran Mohd Salleh	2011	Tensile Behavior Of CNT-CF/PP Composite Obtained From Experimental And Numerical Modeling Methods	International Conference on Nanoscience and Technology 2011
16	S.M.Z. Sharifah Mazrah, S.N. Ismail, A.R. Suraya, R. Yunus, N. Abdullah	2010	Optimization of CNT Growth on Carbon Fibre Using Floating Catalyst Chemical Vapour Deposition	Diffusion in Solids and Liquids 2010
17	Siti Hajar Othman, Suraya Abdul Rashid, Tinia Idaty Mohd. Ghazi and Norhafizah Abdullah	2010	Effect of Fe Doping on Phase Transition of TiO ₂ Nanoparticles Synthesized by MOCVD.	International Conference on Process Engineering and Advanced Materials
18	Siti Hajar Othman, Suraya Abdul Rashid, Tinia Idaty Mohd. Ghazi and Norhafizah Abdullah	2009 ISBN 978- 983- 42758- 4-6	Effect of Reaction Temperature on Photocatalytic Activity of TiO ₂ Nanoparticles Produced via MOCVD	International Advanced Technology Congress
19	Setareh Monshi Toussi, A. Fakhru'l-Razi, Luqman Chuah A., A.R. Suraya.	2009 ISBN 978- 983- 42758- 4-6	Optimization of Synthesis Condition for Carbon Nanotubes by Catalytic Chemical Vapor Deposition (CCVD)	International Advanced Technology Congress
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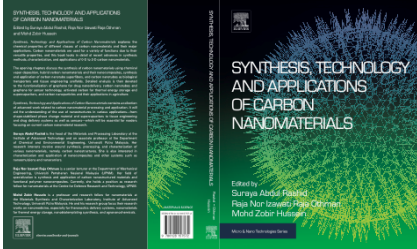
	Mohd. Ghazi and Norhafizah Abdullah	978-983-43571-3-9		
22	A. R. Suraya, I. S. Norazian, A. Norhafizah	2008	Improvement in Mechanical Properties of Carbon Fiber Composites: New Dimension in Whiskerization Treatment of Carbon Fibers	4th National Carbon Fiber Conference and Composites (NCFC 08)
23	A. R. Suraya, I. S. Norazian, A. Norhafizah	2007 ISBN 978-983-44207-0-3	A Preliminary Study on the Effect of Ferrocene Introduction Method in Treating Carbon Fiber Surface	Carbon Fibre in Malaysia: Process, Application & Commercialization.
24	S.M.Z., Sharifah Mazrah, A.R., Suraya, Y., Robiah and I., Nor Azowa	2007 ISBN 978-983-44207-0-3	Effects of Whiskerization Treatment on Carbon Fibers via CVD Method to the Tensile Properties of Carbon Fiber reinforced Polypropylene Composites	Carbon Fibre in Malaysia: Process, Application & Commercialization.
25	S.M.Z., Sharifah Mazrah, A.R., Suraya, Y., Robiah and I., Nor Azowa	2007	Novel Application of Carbon Nanotubes for carbon Fiber Surface Treatment	Nanotech Malaysia
26	S.M.Z., Sharifah Mazrah, A.R., Suraya, Y., Robiah and I., Nor Azowa	2007	Whiskerization Treatment of Carbon fibers for Enhancing Tensile Properties of Carbon Fiber reinforced Polypropylene Composite.	21 st Symposium of Malaysian chemical Engineers
27	Najua Delaila Tumin, A. Luqman Chuah, Z. Zawani, Suraya Abdul Rashid,	2007	Adsorption of Copper from Aqueous Solution by Elais Guineensis Kernal Activated Carbon	21 st Symposium of Malaysian chemical Engineers
28	A.R Suraya, C. Vargis, R. Yunus, s. Shamsudin	2006	Evaluation of Carbon Vapour Deposition Technique For Whiskerization Treatment of Carbon Fibers	Seminar on Engineering and Technology

d. Chapter in Books

No	Authors	Year	Title	Publisher
1	Syazwan afif Mohd Zobir, Suraya Abdul Rashid, Tongling Tan	2019	Recent Development on the Synthesis Techniques and Properties of Graphene Derivatives in Synthesis, Technology and Applications of Carbon Nanomaterials	Elsevier

2	Norhanisah Jamaludin, Suraya Abdul Rashid, Tongling Tan	2019	Natural Biomass as Carbon Sources for the Synthesis of Photoluminescent Carbon Dots in Synthesis, Technology and Applications of Carbon Nanomaterials	Elsevier
3	Taha Shojaei, Mohd Amran Mohd Salleh, Melsam Tabatabaei, Hossein Mobli, Mortaza Aghbashlo, Suraya Abdul Rashid, Tongling Tan	2019	Applications of Nanotechnology and Carbon Nanoparticles in Agriculture in Synthesis, Technology and Applications of Carbon Nanomaterials	Elsevier
4	Suraya Abdul Rashid	2019	Teaching For Understanding: The Two-Stage Teaching Strategy for Engineering Courses	UPM Press
5	Shazed Md Aziz, Suraya Abdul Rashid, and Saeed Rahmanian	2016	Fabrication Methods of Graphene Nanoribbons in Graphene Science Handbook; Fabrication Methods	CRC Press
6	Siti Norazian Ismail and Suraya Abdul Rashid	2014	Hybrid Carbon Nanotubes (CNT) – Carbon Fibre Nanocomposites in Engineering Composites: Properties and Applications	UPM Press
7	Bitu Roshanravan, fariba Mahdavi and Suraya Abdul Rashid	2014	Nitrogen Release Properties of Urea-Kaolinite Controlled Release Fertilizer with Chitosan Binder in From Sources to Solution	Springer

e. Book

No	Editor	Year	Title	Publisher
1	Suraya Abdul Rashid, Raja Nor Izawati Raja Othman, Mohd Zobir Hussein	2019	Synthesis, Technology and Applications of Carbon Nanomaterials 	Elsevier
2.	Wong Su Luan, Mas Nida Md	2019	Scholarship of Teaching and Learning @UPM	UPM Press

	Khambari, Abu Bakar Mohamed Razali, Suraya Abdul Rashid, Florence Toh Haw Ching			
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I. Research activities

a. Research Grants

No	Title	Role	Sponsor/Grant and Amount (RM)	Period (year)	Status
1	Mechanism of Solid-State Stokes Shift and Long range Charge Transport of Carbon Quantum Dots/Polymer Films for Photosynthesis Augmentation	Project Leader	FRGS 140,450	2023-2025	On-going
2	The Interaction Mechanism Between Green Synthesis of Hydroxyapatite nanoparticles and Thermoanaerobacterium-rich species for granule formation in biohydrogen production	Co-researcher	FRGS 129,00	2023-2025	On-going
3	Deep Ultraviolet Surface Plasmon Investigation incorporating graphene quantum dots for biosensing	Co-researcher	FRGS RM107,000	2019-2021	Completed
4	Photoluminescence and Electron Transfer Mechanism of Carbon Quantum Dots-Chloroplast Complex for Photosynthesis Augmentation	Project Leader	FRGS RM95,000	2019-2021	Completed
5	Application of Surface Plasmon Resonance Image Sensor Based on Otto Configuration to Detect PAH Chemical Using Polyaniline Graphene Quantum Dots Composite Layer	Co-researcher	UPM Grant (IPB) RM143,600	2019-2021	Completed
6	Oil Palm Fruit Maturity Sensor Using Electrochemical Cell Method	Co-researcher	Matching Grant RM90,700	2018-2020	Completed
7	Embedding Immersive Learning into the Constructive Alignment of a Nanotechnology Course	Project Leader	GIPP RM30,000	2018-2020	Completed
8	Preparation of Biochar-derived Carbon Dots using Microwave and its Augmentative Effects on Algal Growth	Project Leader	UPM Grant (IPS) RM25,000	2018-2020	Completed

9	Carbon Dots for Photosynthesis Augmentation to Improve Crop Yield	Project Leader	InnoHub RM80,000	2017-2019	Completed
10	Properties Evaluation and Shelf Life Modelling of Nanocomposite Edible Films	Co-researcher	FRGS RM83,000	2016-2019	Completed
11	Evaluation of Silver Nanoparticles Coated on Banana Waste Activated Carbon as Low Cost Adsorbent for Greywater Treatment	Co-researcher	FRGS RM91,700	2016-2018	Completed
12	Preparation and Physicochemical Characterization of Graphene Quantum Dots from Biochar by a Facile Acid-free Sub-critical Water (SCW) Process	Project Leader	UPM Grant (IPB) RM98,500	2016-2018	Completed
13	Role of Graphene Quantum Dots in the Optical Properties of GQD/PMMA Nanocomposite for Glucose Detection	Project Leader	FRGS RM129,800	2016-2018	Completed
14	Lightweight and flexible grapheme-based polyvinyl alcohol (PVA) nanocomposites for high-performance electromagnetic interference (EMI) shielding	Project Leader	UPM Grant (IPS) RM20,000	2016-2017	Completed
15	Mechanistic framework of photocatalytic CO ₂ reduction using garphene quantum dot/copper nanocomposite photocatalysts	Co-Researcher	FRGS RM70,000	2015-2017	Completed
16	Imprintsorb for rapid mercury removal adsorbent for liquid hydrocarbon streams	Co-Researcher	PRGS RM127,000	2015-2017	Completed
17	Characterisation of the enhanced thermal and mechanical properties of grafted CNT - epoxy composites	Co-Researcher	FRGS RM120,800	2014-2015	Completed
18	Synthesis, characterization and application of graphene nanostructures	Project Leader	UPM Grant RM160,000	2014-2015	Completed
19	The Mechanism of Catalytic Graphene Nanoribbons Synthesis by Chemical Vapour Deposition	Project Leader	FRGS RM115,000	2013-2015	Completed
20	The role of metal oxide nanoparticles in Alzheimer's disease	Co-Researcher	FRGS RM120,800	2012-2015	Completed
21	Urea-based Nanocomposite Fertilizer for Improved Rice Production	Sub-Project Leader	LRGS RM180,000	2011-2014	Completed

22	Fundamental Studies on the Intercalation and Release Mechanism of Urea Into/From Clay Nanolayers	Project Leader	FRGS RM 97,000	2011-2014	Completed
23	The Effects of Nanoemulsification on the Physical and Chemical Properties of Diesel Fuel	Project Leader	ERGS RM142,000	2011-2014	Completed
24	Carbon Nanotube Growth on Carbon Fibres using Floating Catalyst Chemical Vapour Deposition for High Performance Fibre Reinforced Composites	Project Leader	MOSTI Brain Gain RM139,000	2010-2012	Completed
25	High-yield Growth of Carbon Nanotubes on Glass Fibre to Produce Fuzzy-Fibre Reinforced Structural Composites	Project Leader	RUGS RM63,000	2009 - 2011	Completed
26	Development of magnetic Photocatalyst for Removal of Organic Pollutant through Photocatalysis	Co-Researcher	RUGS RM185,000	2009 - 2011	Completed
27	Dispersion and Stabilisation of TiO ₂ Nanoparticles in Aqueous Solution	Project Leader	FRGS RM 50,000	2009 - 2011	Completed
28	Synthesis and Characterization of Photocatalytic Titanium Dioxide Particles	Project Leader	FRGS RM60,000	2007 - 2009	Completed
29	Whiskerization Treatment of Carbon Fibres With Carbon Nanotube Whiskers for Improving the Strength of Carbon Fibre Reinforced Composites	Project Leader	ESciencefund, Project No: 03-01-04-SF0795 / RM 147,400	2007 - 2009	Completed
30	Development of Surface Treatment for Carbon Fibre via Conventional and Innovative Method	Project Leader	Sciencefund, MOSTI. Vot. No. 5492200 / RM 300,000	2004	Completed

b. Patents and Trademarks

No.	Title	Date	File/Patent No.	Status (Granted/Registered)
1	Preparation of Carbon Quantum Dots (Main Inventor)	2023	MY-195075-A	Granted
2	Harvast™	2019	TM2019017454	Granted
3	Graphene Ribbons and A Process for Preparation Therof (Main Inventor)	2014	PI2014703236	Registered
4	Method and Composition for making Watertight Cement Based Concrete	2012	PI2012000678	Registered

	Product Utilizing Silica Nanoparticles and Rice Husk Ash (Main Inventor)			
5	A Chemical Vapour Deposition Reactor for Carbon Fibre Surface Treatment (Main Inventor)	2008	PI20080489	Registered
6	A method for transferring graphene-based materials using hydrogel (Co-researcher)	2015	PI2015702075	Registered
7	Modification of optical microfiber with graphene and silver/graphene thin films for enhanced saturable absorption (Co-researcher)	2014	PI2014703300	Registered

c. External Examiner

No.	Thesis	University	Student	Title	Date
1	PhD	UTP	Mohamad Fakhrol Ridhwan Samsudin	Synthesis, Characterization and Photoelectrocatalytic Hydrogen Study of BiVO ₄ /GQD/g-C ₃ N ₄ Photocatalyst	2021
2	PhD	USM	Mahmood Subhi Jameel	Rapid Sonochemically-Assisted Green Synthesis of Highly Stable and Biocompatible Platinum Nanoparticles as Novel Contrast Agent for Computed Tomography	2021
3	Masters	IIUM	Shakeer Ahmed Khan	Study on the Development of ZnO/PVA Nanocomposite Film for Solar Cell Application	2021
4	Masters	UTM	Muhamad Fahmi Che Ani	Convective Heat Transfer Performance of Nanofluids for Energy Recovery in Concentric Tube Heat Exchanger	2020
5	PhD	UTM-MJIIT	Lee Kar Xin	Facile Biosynthesis of Garcinia Mangostana Mediated Gold, Silver and Core-Shell Nanoparticles with Enhanced Anticancer Properties	2019
6	PhD	UTM-MJIIT	Zahra Izadiyan	Anticancer property enhancement of parenteral 5-Fluorouracil-loaded nanoemulsion containing Fe ₃ O ₄ /Au core-shell nanoparticles with response surface methodology	2019
7	Phd	UniMaP	Lim Gim Pao	Development of Ca-alginate-chitosan capsules for Encapsulation and Controlled Release of Imidacloprid as Larvaecide Delivery System	2018
8	Phd	USM	Mahayatun Dayana Johan Ooi	Solvothermal Synthesis and Electrochemical Performance of Amine-Functionalised Platinum (Pt) Nano and Microstructures.	2018

9	Masters	UTM	Chiong Sie Jing	Polyvinylidene Fluoride/Graphene Oxide Nanocomposite As Anti-Corrosion Coating in Natural Gas Pipelines	2017
10	PhD	Dr. APJ Abdul Kalam	Sangeeta Kandpal	Synthesis & Characterization Of Some Novel Functional Silicones Dendrimers & Their Applications.	2017
11	Masters	UTeM	Mazlin Aida	Preparation and Thermomechanical Properties Characterisation of NR/EPDM Filled Graphene Nanoplatelets Nanocomposites	2016
12	Masters	UMP	Geraldine Chan Sue Ching	Development of a Graphene Based Immuno Biosensor of Hepatitis B Surface Antigen Detection	2015
13	Masters	UTP	Yon Norasyikin	A Study on Droplet Impact Behaviour of Modified Biopolymer on Urea Surface	2015
14	Masters	USM	Nor Ain Zainal	Synthesis and Optimization of Silica Nanoparticles Entrapped with Rifampicin for Drug Delivery System	2014
15	Masters	UMP	Rubaiyi Mat Zaid	Beta-Carotene Reduction of Graphene for Fabrication of Supercapacitors Electrode	2014
16	Masters	USM	Nor Naimah Roshadah Ahmad	Evaluation of Parameters that Govern the Release Rates of Phosphate Ions From Chitosan-Coated Phosphorus Fertilizer Pellets	2013
17	Masters	UKM	Siti Nur Fadhilah Binti Zainudin	Pengoptimuman dan Kesan Bahan Dopan ke atas Penghasilan Zarah TiO ₂ Bagi Peningkatan Prestasi Sel Solar Pemeka Warna	2013
18	PhD	USM	Yeoh Wei Ming	Continuous Production of Carbon Nanotubes over Easily-Washable Magnesium Oxide Supported Catalyst Using Rotary Reactor	2013
19	Masters	USM	Norazuwana Shaari	Synthesis and Charatcerization of Doped CNT/TiO ₂ Photocatalyst for Phenol Degradation	2012

d. Internal Examiner

No.	Thesis	Student	Title	Date
1	PhD	Nor Saiful Hafiz	Methyl Ester Sulfonate In Alkaline Surfactant Polymer Flooding For Enhanced Oil Recovery	2021
2	PhD	Zahra Maghareh Esfahan	Synthesis and Characterization of BSA-Based Biomaterials by Sub Critical Water Technology	2019
3	PhD	Selvakumar Thiruvankadam	One-step Subcritical Extraction Process for Microalgal Biodiesel Production	2019

4	PhD	Muhammad Amirul Aizat Bin Mohd Abdah	Development of Manganese Oxide Based Fibre Composites for High Electrochemical Performance Supercapacitors	2019
5	Masters	Shamsainon Abu Toat	Hydrolysis of cotton fabric from hospital waste using subcritical water	2019
6	PhD	Saba Rashidi	Study of Stability and Thermal Conductivity of Multiwalled Carbon Nanotube (MWCNT) Nanofluid	2018
7	PhD	Zul Adlan Mohd Hir	Preparation and Characterization of Polyethersulfone Hybrid Film Photocatalysts for the Degradation of Pollutant in Water	2018
8	PhD	Yusuf Tijjani	Development of Durable Refractory Material For Lining Foundry Cupola Furnace	2018
9	Masters	Nurul Shahidah Ahmad	Toxicity Assessment of Reduced Graphene Oxide and Titanium Dioxide Nanoparticles on Microorganism	2018
10	PhD	Arshin Oskoueian	Fabrication, Charcterization and Functionalization of Single Walled Carbon Nanotube Conjugated with Tamoxifen And its Anti-cancer Potential Against Human Breast Cancer Cells	2017
11	PhD	Intidhar Jabir Idan Al-Tharwani	Adsorption Studies for Removing Reactive and Acid Dyes from Single and Binary Solutions by Quarternized Kenaf Core Fibres	2017
12	PhD	Danlami Umar Duru	Theoretical and experimental models for the synthesis of metallic single walled carbon nanotubes and their electrochemical capacitance	2017
13	Masters	Saidatul Aliaa Binti Awaluddin	Sub-critical Water Technology for Enhanced Extraction of Biomolecule Compounds from Microalgae	2017
14	Masters	Fatemeh Muhammaddoost	Physico-chemical properties and bioactivity of hydroxyapatite/zirconia composite prepared by ball-milling	2016
15	PhD	Sariah Bt Saalah	Synthesis and Characterization of Jatropha Oil-Based Waterborne Polyurethane Dispersions	2016
16	PhD	Liman Muhammad Gidado	Synthesis, characterization and application of cobalt modified zinc oxide nanoparticles for the removal of nitrobenzene	2015
17	Masters	Buthainah Ali Abed Al-Timimi	Production and Characterization of Polycarbonate and Multi-Walled Carbon Nanotubes Based Nanocomposite	2015
18	PhD	Makama Abdullaji Baba	Microwave-assisted syntheses and applications of porous ZnO/SNSx (x=1 and 2) Nanocomposites as visible light photocatalysts for water purification	2015
19	Masters	Elmira	The effect of hydrogen flowrate in carbon nanotube production in low temperature	2014

20	Masters	Ehsan Marahel	Adsorption of Carbon Dioxide on Ammonia-Treated Carbon Coated Monolith	2013
21	Masters	Hossein Noorvand	Physical and Chemical Properties of Palm Oil Fuel Ash Cement Mortars with Nano-SiO ₂	2013
22	Masters	Hassan Noorvand	Incorporation of Nano TiO ₂ in Rice Husk Ash Mortars	2013
23	Masters	Iman Bayesti	Adsorption of Carbon Dioxide By Activated Carbon Modified with the Mixture of Cu/Zn	2013
24	Masters	Teoh Yi Peng	Equilibrium and Kinetic Studies on Removal of Phenol and Chlorophenol, 2, 4-Dichlorophenol By Using Activated Carbon Coated Monolith	2013
25	Masters	Nurjahirah Bt Jainudin	Synthesis of Carbon Nanotubes for Detection of Volatile Organic Compounds	2013
26	Masters	Willie Cheah	Acid Modified Carbon Coated Monolith for Methyl Orange Adsorption	2014
27	Master	Choo Thye Foo	Preparation and Characterization of Mullite-based Ceramics from Malaysian Kaolin	2012
28	PhD	Norzilah Abdul Halif	Synthesis of carbon nanomaterials using floating catalyst chemical vapour deposition (FC-CVD) for liquid adsorption	2011
29	Master	Sharmeen Adnan	Impregnation of carbon nanotubes (CNTs) within bacterial cellulose microfibrils	2011
30	Master	Hengameh Henai	Effects of temperature, deposition time and catalyst loading on the synthesis of carbon nanotubes in a fluidized bed reactor	2011
31	Master	Nurulhuda Abdullah	Synthesis and Photocatalytic activity of TiO ₂ , Nb ₂ O ₅ and Nb ₂ O ₅ -doped TiO ₂ .	2011
32	PhD	Firoozeh Danafar	Fluidized Bed Chemical Vapour Deposition Synthesis of Carbon Nanotubes and its Application for Cellulase Immobilization	2010
33	PhD	Fatemeh Mirjalili	Production of Alpha-Alumina through Sol-Gel Method and Its Application on Polypropylene Composite	2010
34	Master	Jenney Ngu Lim Song	Characterization of Mechanical, Morphological and Thermal Properties of LDPE Nanocomposite using Alumina Nanoparticles	2010
35	Master	Amin Firouzi	Investigation on Effect of Gas Adsorption on Electrical Resistance of Carbon Nanotubes	2010
36	Master	Mahmood Rashid Atiyah	Low-Temperature Synthesis of carbon Nanotubes via Floating Catalyst Chemical Vapour Deposition Method	2010
37	Master	Aspalila Awang	The Study of Fire Behaviour and Smoke Toxicity of Polyurethane/Clay Nanocomposites	2009
38	Master	Thamer H. Ahmed	An improved Catalyst Delivery System for Carbon Nanotubes Synthesis in Floating Catalyst Vapour Deposition Reactor.	2009

39	Master	Mahta Sadegh Vishkaei	Synthesis of carbon nanotube on short carbon fibre by fluidized bed chemical vapour deposition	2009
40	Master	Nor Hasni Zahari	Development of Carbon Fibre Reinforced Polypropylene Composite for Car Bumper Application	2009
41	Master	Ngeow Yen Wan	Local Onset of Convection by Vertical Heated Plate in Water	2007
42	Master	Mohsen Nourouzi Mobarekeh	Study on Isotherm of Reactive Dyes Adsorption Via Palm Kernel Shell Based Activated Carbon	2007
43	Master	Ho Chin Woi	Disruption of Escherichia Coli by Bead Milling and Development of an Integrated Recovery process for Recombinant Hepatitis B Core Antigen (HBcAg)	2007
44	Master	Farah Aniza Mohd Yusof	A Study of Carbon Nanotubes as Gas Sensing Element	2007
45	PhD	Saad Abdul Amir Abbas	Textural, Imaging and Heat Transfer Study of Palm Oil Fruitlets in Continuous Steriliser	2006
46	Master	Masniza Bt Mohamed @ Mahmood	The Influence of M13 Bacteriophage Cells in Protein Adsorption of Anion Exchange Expanded Bed Chromatography.	2006
47	Master	Siew Fong Wah	Theory and Simulation of the Onset of Convection Induced By Liquid Diffusion In Liquid and the Onset of Stability caused by Liquid Flow in Particle Bed	2006
48	Master	Ng Sook Kuen	The Evaluation of Bleaching Clays in the Physical Refining of Palm Oil	2006
49	Master	Anita Abu Bakar	Study on Effect of Hydroxyl Group on Lubrication Properties of Palm Based Trimethylolpropane Esters	2006
50	Master	Faizah Md Yasin	Production of Carbon Nanotubes for Electronic Sensor Application	2006
51	Master	Wedad Ashour Alforjani	Development and Evaluation of Linamarin Drug for Controlled Release Using Biodegradable Poly-Lactic Co-Glycolic Acid Nanoparticles.	2005
52	Master	Soo Ching Yee	Dynamics and Convergence Accelerations of Rapid Pressure Swing Adsorption	2005

e. Chairman for Viva Voce in UPM

No	Thesis	Student	Title	Date
1	PhD	Salisu Nasir	Valorization Of By-Product Materials From Oil Palm As A New Sustainable Carbon Sources For Carbon-Based Nanomaterials Synthesis And Energy Storage Application	2019
2	PhD	Raja Mohamad Hafriz B. Raja Shahrizzaman	Modified Malaysian dolomite catalyst for bio-fuel production via catalytic pyrolysis of waste cooking oil	2019

3	PhD	Adeyi Abel Adekanmi	Development Of Thiourea Modified Poly(Acrylonitrile-Co-Acrylic Acid) For Cationic Dyes Adsorption From Single And Binary Solution	2019
4	Masters	Norsyamimi Che Sulaiman	Optical Detection System for Free Fatty Acids in Crude Palm Oil Based on Base Catalyst	2019
5	PhD	Ramin Khezri	Experimental and Numerical Evaluation of Napier Grass Gasification in an Auto-thermal Fluidized Bed Reactor	2018
6	PhD	Reza Zolfaghari	Use of Cationic Surfactants for Demulsification of Produced Water from Alkaline-Surfactant-Polymer Flooding Process.	2018
7	PhD	Ayu Haslija	Fluoride Removal Using Quarternized Palm Kernal Shell And Palm Kernal Shell Activated Carbon	2018
8	PhD	Musaab Kadem Rashed	Improving Petroleum Liquids Flow in a Rotating Disk Apparatus Using Structured Inner Surface and Polymeris Additives.	2017
9	PhD	Alya Khadier Mageed	Copper Based Catalysts Supported Nitrogen Doped Reduced Graphite Oxide for Dehydrogenation of Cyclohexanol to Cyclohexanone	2017
10	PhD	Mohd Hazani Mat Zaid	Development of PNA Electrochemical Biosensor Based on Reduce Graphene Composite Material For Mycobacterium tuberculosis Detection	2017
11	PhD	Nur Hidayah	Optical Detection System for free Fatty Acids (FFAs) in Crude Palm Oil (CPO) Based on Enzymatic Method	2017
12	PhD	Mahtab Samadi	Hydro-distillation and Subcritical Water Extraction of A. Malaccensis Leaves and Wood Essential Oil: Optimization, Kinetic Modeling and Characterization	2017
13	PhD	Hee Choi	Corrosive Study and Modification of Aerosol Fire Extinguishing Agents and CFD Modeling of Fire Aerosol	2016
14	PhD	Nafiseh Shams	Determination of Pesticides in Natural Water Resources by Electrochemical Sensors based on Graphene Oxide-Nanoparticles	2016
15	PhD	Wan Norailiana	Elucidation of the Parallel Evolution of Microstructures, Electrical and Optical Properties and Their Relationship in Zinc Oxide Semiconductor	2016
16	PhD	Tan Foo Khoon	Electrical Properties Of Mixed Oxides Of Manganese And Vanadium Prepared By Conventional Solid State And Mechanical Alloying Methods	2016
17	PhD	Hamidah Abdul Hamid	Synthesis of Palm Oil-Based High Oleic TMP Esters Using Pulsed Loop Reactor	2016

18	PhD	Muhammad Tariq Bashir	Nitrate And Fluoride Removal From Aqueous Solution By Chemically Modified Palm Kernel Shell	2016
19	Masters	Khairul Ridzwan	Evaluation of Gypsum based Material as Coating Agent to Improve the Efficiency of Granular Urea Fertilizer	2015
20	Master	Nor Naimah Roshadah Ahmad	Evaluation of Parameters that Govern the Release Rates of Phosphate Ions From Chitosan-Coated Phosphorus Fertilizer Pellets	2013
21	Masters	Munirah Ramli	Synthesis, Characterization and Toxicity Study of Layered Hydroxides Containing Intercalated Salicylate for Nanodelivery of An Anti-Inflammatory Agent	2013
22	Masters	Nima Zohdi	Adsorption of Boron using Modified Multi Wall Carbon Nanotube	2013
23	Masters	Norhasliza Bt Hasan	Application of Bacterial Cellulose Produced by Acetobacter Xylinum in Facial Scrub as Binding Agent	2013

J. Consultation projects

No	Name of Consultants	Name of Project/Program	Sponsor	Amount (RM)	Year	Status
1	Prof. Dr. Robiah Yunus, AP Dr. Salmiaton Ali, Dr. Suraya Abdul Rashid, Dr. Mohd Amran Mohd Salleh	Fertilizer Research and Development Program	Petroleum Nasional Berhad	500,000	2011	Completed
2	Suraya Abdul Rashid	Nanotechnology for Controlled-Release fertilizer	Global Resources Management Sdn Bhd.	18,353	2010	Completed

K. Industry and Community Relations

No	Name of Activity/Project/Program	Role	Category	Date
1	Program Pemindahan Ilmu Nanosains dan Nanoteknologi kepada Guru Sekolah Menengah Daerah Hulu Langat	Leader	Community relations	2023
2	Program Pemindahan Ilmu Teknologi Nano kepada komuniti untuk pembangunan aplikasi	Leader	Community relations	2019

3	Program Pemindahan Ilmu Teknologi Hijau kepada Sekolah Kebangsaan Taman Putra Perdana, Puchong	Leader	Community relations	2019
4	Orion, Japan	Member	International industry relations	2018
5	Areka Group, Istanbul	Leader	International industry relations	2018
6	Program Sireh Pulang ke Gagang, MRSM Taiping	Member	Community relations	2018
7	Collaboration for Research and Advancements in Tyre Technology with Continental Sdn Bhd.	Leader	Industry relations	2017 - Ongoing
8	Collaborative Seminar with Hiden Analyticals	Leader	Industry relations	2017
9	Networking with Industry – Product Exhibition	Member	Industry relations	2018
10	Networking with Industry – Product Exhibition	Member	Industry relations	2016
11	Chitosan Processing Pilot Plant – Consultation on reactor design	Leader	Industry relations	2016
12	Water in Diesel Emulsion Fuel – Project Discussions and Industrial Visits	Leader	Industry relations	2015
13	Nobel Laureates Outreach Camp 2015: Scientists of Tomorrow With MRSM students	Member	Community relations	2015
14	Platinum Nanochem Sdn Bhd	Leader	Industry relations	2013-2017
15	CVD, New York	Leader	International Industry relations	2012
16	Petronas	Member	Industry relations	2011
17	Global Resources Management	Leader	Industry relations	2010

L. Extension and other public services

No	Name of Activity/Project/Program	Organiser	Place	Date
1	Technical Committee FEIIC International conference on engineering education and research 2019.	FEIIC, MySET	Mecca, Kingdom of Saudi Arabia	2019
2	Chair International Symposium on Advanced Materials and Nanotechnology 2018	ITMA, UPM	Everly Hotel, Putrajaya	2018
3	Technical Committee FEIIC International conference on engineering education and research 2017.	FEIIC, MySET	Madinah, Kingdom of Saudi Arabia	2017

4	Technical Committee FEIIC International conference on engineering education and research 2015.	FEIIC, MySET	Madinah, Kingdom of Saudi Arabia	2015
5	Chair, Workshop on Advanced Materials and Nanotechnology (WAMN 2015)	Institute of Advanced Technology, (ITMA), UPM	Faculty of Engineering, UPM	2015
6	Technical Committee, International Conference on Engineering Education	FEIIC, MySET	Madinah, Saudia Arabia	2013
7	Program & Study Advisory Committee, for the Diploma in Chemical Engineering Technology in Process	Universiti Kuala Lumpur MICET	Universiti Kuala Lumpur MICET	2013-2015
8	Advisory Committee, UPM-JSMS Colloquium on Composite MAterials	Engineering Composite Research Group, ITMA, UPM	ITMA, UPM	2012
9	Speaker, Nanomaterials Processing Workshop	ITMA	ITMA, UPM	2012
10	Technical Committee, International Conference on Engineering Education 2011	Malaysian Society for Engineering and Technology	Madinah, Saudi Arabia	2011
11	Co-Chair, Workshop on Advanced Materials and Nanotechnology 2011	Advanced Materials and Nanotechnology Laboratory, ITMA	ITMA, UPM	2011
12	Technical Committee, Regional Symposium on Engineering and Technology 2011	Malaysian Society for Engineering and Technology	Kuching, Sarawak, Malaysia	2011
13	Editor, Pertanika Journal Special Issue	Pertanika Journal	UPM	2010
14	Editor, 4 th World Engineering Congress ISBN: 978-983-4357-19-1	Malaysian Society for Engineering and Technology	Kuching, Sarawak, Malaysia	2010
15	Treasurer, 4 th World Engineering Congress	Malaysian Society for Engineering and Technology	Kuching, Sarawak, Malaysia	2010
16	Chair, Conference on Advanced Processes and Materials	Malaysian Society for Engineering and Technology	Kuching, Sarawak, Malaysia	2010
17	Module Writer, Powerful Writing for Success (Package C), Finishing School Phase 2	Pusat Ko-Kurikulum	UPM	2010
18	Session Chair, International Conference on Process Engineering and Advanced Materials	Universiti Teknologi Petronas	Kuala Lumpur Convention Centre	2010
19	Technical Committee Symposium D: Nanotechnology in Agriculture, Energy & Environment, NANOTECH 2009	Malaysia Nanotechnology Association	Kuala Lumpur Convention Centre	2009

20	Publicity Committee Conference on Advanced Materials and Nanotechnology	ITMA, UPM	Putra World Trade Centre	2009
21	Session Chair, Conference on Advanced Materials and Nanotechnology	ITMA, UPM	Putra World Trade Centre	2009
22	UPM representative, Kursus Keterampilan Pensyarah Muda Siri 1/2009	Kementrian Pengajian Tinggi	INTAN, Sungai Petani	2009
23	Auditor, Self Review Portfolio, Academic Performance Audit	Deputy Vice Chancellor TNCAA, UPM	Faculty of Engineering	2009
24	Editor, 3 rd International Engineering Convention (IntEC2009) ISBN: 978-983-41705-4-7	Federation of Engineering Institutions in Islamic Countries	Damascus, Syria	2009
25	Co-Chairperson, Symposium in Engineering and Technology	Federation of Engineering Institutions in Islamic Countries	Kuching, Sarawak, Malaysia	2008
26	Editor, Conference Proceedings, Symposium in Engineering and Technology ISBN: 978-983-43571-3-9	Federation of Engineering Institutions in Islamic Countries	Kuching, Sarawak, Malaysia	2008
27	Chief Editor mSET Newsletter, Malaysian Society for Engineering and Technology	Malaysian Society for Engineering and Technology	HRC, UPM	2008 till present
28	Judge, National Chemical Engineering Symposium	UPM	UPM	2008
29	Panel Member, Forum Bulan Putra Satria 2008, "Sharing of Effective/Good Teaching"	UPM	Faculty of Engineering	2008
30	Editorial Board, FEIIC Bulletin on Engineering and Technology for Islamic Countries	Federation of Engineering Institutions in Islamic Countries	Malaysia	2007 – 2008
31	National Monitoring Committee	Federation of Engineering Institutions in Islamic Countries	Malaysia	2007 – 2009
32	Editor, Food and Chemical Engineering Conference ISBN: 97-983-41705-8-5	Federation of Engineering Institutions in Islamic Countries	Penang, Malaysia	2007
33	Secretary, 3 rd World Engineering Congress	Federation of Engineering Institutions in Islamic Countries	Penang, Malaysia	2007
34	Editor, 2 nd International Engineering Convention (IntEC2007) ISBN: 978-983-41705-4-7	Federation of Engineering Institutions in Islamic Countries	Jeddah, Saudi Arabia	2007

35	Treasurer, 2 nd International Engineering Convention (IntEC2007)	Federation of Engineering Institutions in Islamic Countries	Jeddah, Saudi Arabia	2007
36	Editor, Symposium in Engineering and Technology, ISBN: 983-41705-3-X	Faculty of Engineering	Putrajaya, Malaysia	2006
37	Main Speaker, IAEA Regional Training Course on Application of Radiation in Nanotechnology	Nuclear Malaysia	Nuclear Malaysia	2006

M. Involvement in professional association/organization/body

No	Name of Association/Organization/Body	Role (President/Secretary/Committee Member/Ordinary Member)
1	Malaysian Society for Engineering and Technology (MySET)	<ul style="list-style-type: none"> • Council member, <ul style="list-style-type: none"> - Term 2018/2021 - Term 2015/2018 - 2012/2015 • Vice President <ul style="list-style-type: none"> - Term 2010/2012 • Member in 2010
		Standing Committee on Information and Publication from 2009 (on-going)
		Chief Editor for Engineering & Technology (ET) Magazine
2	Malaysia Board of Technologists (MBOT)	<ul style="list-style-type: none"> • Professional Technologist (Ts) in 2018 • Publications Committee (on-going) • Editor for Techies Magazine (on-going)
3	Institute of Chemical Engineers (IChemE)	<ul style="list-style-type: none"> • Currently pursuing Chartered membership (Interview will be held first week of May 2019) • Associate member (AMIChemE) in 2018 • Affiliate member in 2010 • Student member in 1997
4	Board of Engineers Malaysia	<ul style="list-style-type: none"> • Will apply Professional Engineer (PEng) using Route 3 after obtaining Chartered Membership (CEng) from IChemE • Graduate Engineer in 2000
5	ISO TC229 - Nanotechnologies	Member of Working Group on Measurement and Characterization
6	National Nanotechnology Directive	UPM representative for "Bengkel Kajian Halatuju Strategik Nanoteknologi Kebangsaan 2011"
7	Federation of Engineering Institution in Islamic Countries	<ul style="list-style-type: none"> • Member • Executive Board (2008/2009)

N. Involvement in student development

No	Name of Program	Organizer	Role (Facilitator/ Speaker/	Date
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			Others)	
1	Kursus Ketrampilan Graduan (Finishing School) Fasa 2 Siri 1	UPM	Facilitator	2012
2	Kursus Ketrampilan Graduan (Finishing School) Fasa 2 Siri 2	UPM	Facilitator	2012
3	Kursus Ketrampilan Graduan (Finishing School) Fasa 2 Siri 3	UPM	Facilitator	2011
4	Kursus Ketrampilan Graduan (Finishing School) Fasa 2 Siri 2	UPM	Facilitator	2011
5	Kursus Ketrampilan Graduan (Finishing School) Fasa 2 Siri 1	UPM	Facilitator	2011
6	Modul Kursus Ketrampilan Graduan (Finishing School) Fasa Kedua	UPM	Writer	2009 – 2010
7	Kursus Ketrampilan Graduan (Finishing School) ke-7	UPM	Facilitator	2010
8	Kursus Ketrampilan Graduan (Finishing School) ke-6	UPM	Facilitator	2009
9	Kursus Permulaan Graduan (Starting School) ke-4	UPM	Facilitator	2009
10	Kursus Ketrampilan Graduan (Finishing School) ke-5	UPM	Facilitator	2009