

CURICULUM VITAE

Name : Sumaiya Zainal Abidin @ Murad Position : Associate Professor, CEng (MIChemE)

Faculty : Faculty of Chemical and Process Engineering Technology University : Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA)

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H-index : 15 (WoS), 16 (Scopus); 19 (Scholar)

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Google Scholar: https://scholar.google.com/citations?user=nVWWqo4AAAAJ&hl=



AFFILIATION

1. Dean, Faculty of Chemical and Process Engineering Technology, Universiti Malaysia Pahang Al-Sultan Abdullah, Malaysia (Sept 2023 – current)

2. Associate Professor, Faculty of Chemical and Process Engineering Technology, Universiti Malaysia Pahang, Malaysia (Sept 2022 – current)

3. Associate Professor, Department of Chemical Engineering, College of Engineering, Universiti Malaysia Pahang, Malaysia (Sept 2018 – current)

 Senior Lecturer, Faculty of Chemical and Natural Resources Engineering, Universiti Malaysia Pahang, Malaysia (Sept 2012 – Aug 2018)

5. Principal Research Fellow, Centre for Research in Advanced Fluid & Processes (FLUID Centre), Universiti Malaysia Pahang, Malaysia (2022 – current)

6. Visiting Professor, Faculty of Chemical Engineering, Industrial University of Ho Chi Minh City, Viet Nam (Jan 2022 – current)

ACADEMIC QUALIFICATION

PhD (Chemical Engineering), 2012- Loughborough University, Leicestershire, United Kingdom M. Sc. (Chemical Engineering), 2006 – Universiti Putra Malaysia, Malaysia B Eng. (Chemical Engineering, 2004 – Universiti Putra Malaysia, Malaysia

RESEARCH EXPERTISE

- 1. Expertise: reaction engineering & catalysis (reforming, gasification, pyrolysis, esterification, transesterification, cracking, polymerization), advanced materials (catalysis, adsorbent, polymeric resin, phase change material), renewable and sustainable energy (biodiesel, biofuels, hydrogen), separation engineering (crystallization, rare earth separation, adsorption, solvent extraction).
- 2. Domain: Technology and Engineering
- 3. Sub-Domain: Chemical Engineering

LIST OF TAUGHT SUBJECT

No	Session	Subjects & Codes	
BKC Pro	BKC Program		
1	SEM 2 2022 2023	BKC3463Unit Operation (31 students)	
2	SEM 1 2022 2023	BKC3463 Unit Operation (48 students) KUK2142 Engineering Economics (60 students)	
3	SEM 2 2021 2022	BKF3463 Unit Operation (42 students) KUK2142 Engineering Economics (57 students)	

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	OFM 4 2024 2022	BKF3463 Unit Operation (60 students)
4	SEM 1 2021 2022	KUK2142 Engineering Economics
		(62 students) BKF3463 Unit Operation
5	SEM 2 2020 2021	(42 students)
	02.111 2 2020 2021	BKF3142 Process Engineering Economics (57 students)
		BKF3463 Unit Operation
6	SEM 1 2020 2021	(60 students)
		BKF3142 Process Engineering Economics (62 students)
		BKF3463 Unit Operation
7	SEM 2 2019 2020	(52 students) BKF3731 Unit Operation Lab
		(11 students)
8	SEM 1 2019 2020	BKF3463 Unit Operation (45 students)
9	SEM 2 2018 2019	BKF3463 Unit Operation
9	3EW 2 2010 2019	(51 students) BKF3463 Unit Operation
40	CEM 4 2040 2040	(45 students)
10	SEM 1 2018 2019	BKF3731 Unit Operation Lab
		(18 students) BKF3463 Unit Operation
11	SEM 2 2017 2018	(31 students)
''	02.111 2017 2010	BKF3731 Unit Operation Lab (52 students)
12	SEM 1 2017 2018	BKF3463 Unit Operation
12	3LW 1 2017 2010	(45 students) BKF3463 Unit Operation
13	SEM 2 2016 2017	(62 students)
14	SEM 1 2016 2017	BKF3463 Unit Operation
4.5	05110.0015.0010	(74 students) BKF3463 Unit Operation
15	SEM 2 2015 2016	(36 students)
16	SEM 1 2015 2016	BKF3463 Unit Operation (58 students)
17	SEM 2 2014 2015	BKF3463 Unit Operation
		(6 students) BKF3463 Unit Operation
18	SEM 1 2014 2015	(38 students)
19	SEM 2 2013 2014	BKF3463 Unit Operation (71 students)
		BKF3463 Unit Operation
20	SEM 1 2013 2014	(64 students) BKF2453 Chemical Reaction Engineering
		(58 students)
		BKF3492 Separation Process
21	SEM 2 2012 2013	(61 students) DKK2453 Unit Operation
		(55 students)
		BKF1243 Analytical Chemistry (35 students)
22	SEM 1 2012 2013	DKK1751 Basic Engineering Lab
		(30 students) DKK 3433 Unit Operation
		(31 students)
		BKC3363 Science & Engineering Material (95 students)
23	SEM 1 2008 2009	BKF2343 Material And Energy Balance
		(27 students) BKF1333 Thermodynamics
24	SEM 2 2007 2009	(14 students)
24	SEM 3 2007 2008	BKC2323 Thermodynamics
		(2 students) BKF3492 Unit Operation 2
		(33 students)
25	SEM 2 2007 2008	BKF3751 Chemical Engineering Lab 1 (38 students)
		BKU4133 Project Management & Economics
		(34 students)

•	54.14411 <u>2010</u>	(13 students)	
1	Januari 2019		
Executi	ive Program		
5	SEM 2 2019 2020	(7 students)	
4	SEM 2 2020 2021	(8 students)	
		(11 students)	
3	SEM 2 2021 2022	BKF3463 Unit Operation	
2	SEM 1 2021 2022	KUK2142 Éngineering Economics	
		BKF3463 Unit Operation	
1	SEM 3 2021 2022		
SBKC F	Program		
		(24 students)	
		(24 students) DKK3761 Engineering Lab 4	
28	SEM 1 2006 2007	DKK3761 Engineering Lab 4 (24 students) BKF3463 Unit Operation (9 students) BKF3463 Unit Operation (1 student) KUK2142 Engineering Economics (11 students) BKF3463 Unit Operation (11 students) BKC3492 Separation Processes (8 students) BKF3463 Unit Operation	
		(44 students)	
		· ·	
27	SEM 2 2006 2007	(21 students)	
26	SEM 1 2007 2008		

LIST OF PUBLICATIONS

No.	Articles	Position	Date/Year
Jour	nal Article		
1.	Title: Two-Stage Conversion of Used Cooking Oil to Biodiesel Using Ion Exchange Resins as Catalysts Authors: Sumaiya Zainal Abidin, Misbahu Ladan Mohammed and Basudeb Saha Journal: Catalysts DOI: https://doi.org/10.3390/catal13081209	First Author	2023
2.	Title: Dry reforming of methane over Co/CeO2–La2O3 catalyst synthesized using needleless electrospinning. Authors: Siti Nor Amira Rosli, Nur Hidayati Othman, Van Cuong Nguyen, Sumaiya Zainal Abidin Journal: Chemical Engineering & Technology DOI: https://doi.org/10.1002/ceat.202300151	Corresponding Author	2023
3.	Title: Adsorptive capacity and kinetic studies of PK216 resin for the extraction of Pr, Gd, and Dy rare earth elements. Authors: Hidayah, Nur Nadiatul; Roslan, Nurul Asmawati; Osazuwa, Osarieme; Cuong, Van, Zainal Abidin, Sumaiya Journal: Journal of Chemical Technology & Biotechnology DOI: http://doi.org/10.1002/jctb.7426	Corresponding Author	2023
4.	Title: Recent Progress on Catalyst Development in Biomass Tar Steam Reforming: Toluene as a Biomass Tar Model Compound Authors: Sumaiya Zainal Abidin, Osarieme Uyi Osazuwa, Nur Hidayati Othman, Herma Dina Setiabudi, Sarina Sulaiman Journal: Biomass Conversion and Biorefinery DOI: https://doi.org/10.1007/s13399-023-03876-9	Corresponding Author	2023

No.	Articles	Position	Date/Year
5.	Title: The Role of Catalyst Synthesis on the Enhancement of Nickel Praseodymium (III) Oxide for the Conversion of Greenhouse Gases to Syngas Authors: Osarieme Uyi Osazuwa, Sumaiya Zainal Abidin, Nurul Asmawati Roslan, Xiaolei Fan, Herma Dina Setiabudi, Dai-Viet N. Vo, Jude A. Onwudili Journal: Clean Technologies and Environmental Policy DOI: https://doi.org/10.1007/s10098-022-02455-2	Corresponding Author	2022
6.	Title: The Synergistic Role of Ni-Co Bimetallic Catalyst for H ₂ -Rich Syngas Production via Glycerol Dry Reforming Authors: Mohd-Nasir Nor Shafiqah, Sumaiya Zainal Abidin, Nurul Asmawati Roslan, Osarieme Uyi Osazuwa, Issara Chanakaewsomboon Journal: Journal of the Energy Institute DOI: https://doi.org/10.1016/j.joei.2022.09.008	Corresponding Author	2022
7.	Title: Deciphering the Imperative Role of Ruthenium in Enhancing the Performance of Ni/Nd ₂ O ₃ .Gd ₂ O ₃ in Glycerol Dry Reforming Authors: William Mah Wey Lian, Mohd-Nasir Nor Shafiqah, Nurul Asmawati Roslan, Siti Nor Amira Rosli, Suganthi Subramaniam, Ahmad Faiz Malek, Osarieme Uyi Osazuwa & Sumaiya Zainal Abidin Journal: Chemical Engineering Communications DOI: https://doi.org/10.1080/00986445.2022.2116324	Corresponding Author	2022
8.	Title: The Effect of Oxygen Mobility/Vacancy on Carbon Gasification in Nano Catalytic Dry Reforming Of Methane: A Review Authors: Siti Nor Amira Rosli, Sumaiya Zainal Abidin, Osarieme Uyi Osazuwa, Xiaolei Fan, Yilai Jiao Journal: Journal of CO ₂ Utilization DOI: https://doi.org/10.1016/j.jcou.2022.102109	Corresponding Author	2022
9.	Title: Cobalt-Based Catalysts for Hydrogen Production by Thermochemical Valorization of Glycerol: A Review Authors: M. B. Bahari, C. R. Mamat, Aishah Abdul Jalil, T. J. Siang, N. S. Hassan, N. F. Khusnun, W. Nabgan, N. A. Roslan, S. Z. Abidin, H. D. Setiabudi & DV. N. Vo Journal: Environmental Chemistry Letters DOI: https://doi.org/10.1007/s10311-022-01423-y	Co-author	2022
10.	Title: Fabrication of MoS2–rGO and MoS2–ZIF-8 Membranes Supported on Flat Alumina Substrate for Effective Oil Removal Authors: Nur Hidayati Othman, Nurul Syazana Fuzil, Nur Hashimah Alias, Munawar Zaman Shahruddin, Muhammad Shafiq Mat Shayuti, Woei Jye Lau, Ahmad Fauzi Ismail, Sumaiya Zainal Abidin, Sarina Sulaiman, Tutuk Djoko Kusworo Journal: Emergent Materials DOI: https://doi.org/10.1007/s42247-021-00343-x	Co-author	2022
11.	Title: Enhanced Syngas Production from Glycerol Dry Reforming over Ru Promoted Ni Catalyst Supported on Extracted Al ₂ O ₃ Authors: Nurul Asmawati Roslan, Sumaiya Zainal Abidin, Osarieme Uyi Osazuwa, Sim Yee Chin, Y.H.Taufiq-Yap Journal: Fuel DOI: https://doi.org/10.1016/j.fuel.2021.123050	Corresponding Author	2022
12.	Title: Esterification Reaction of Free Fatty Acid in Used Cooking Oil using Sulfonated Hypercrosslinked Exchange Resin as Catalyst Authors: NA Roslan, SZ Abidin, N Abdullah, OU Osazuwa, NM Yunus Journal: Chemical Engineering Research and Design DOI: https://doi.org/10.1016/j.cherd.2021.10.020	Corresponding Author	2022
13.	Title: Improvements in Hydrogen Production from Methane Dry Reforming on Filament-Shaped Mesoporous Alumina-Supported Cobalt Nanocatalyst Authors: Ngoc Thang Tran, Thong Le Minh Pham, Trinh Duy Nguyen, Nguyen Van Cuong, Tan Ji Siang, Pham TT Phuong, AA Jalil, Quang Duc Truong, Sumaiya Zainal Abidin , Ftwi Y Hagos, Sonil Nanda, Dai-Viet N Vo Journal: International Journal of Hydrogen Energy, 46(48), 24781-24790	Corresponding Author	2021

No.	Articles	Position	Date/Year
	DOI: https://doi.org/10.1016/j.ijhydene.2020.06.142		
14.	Title: CO ₂ Reforming of CH ₄ on Mesoporous Alumina- Supported Cobalt Catalyst: Optimization of Lanthana Promoter Loading Authors: Ngoc Thang Tran, P Senthil Kumar, Quyet Van Le, Nguyen Van Cuong, Pham TT Phuong, AA Jalil, Gaurav Sharma, Amit Kumar, Ajit Sharma, Bamidele Victor Ayodele, Sumaiya Zainal Abidin, Dai-Viet N Vo Journal: Topics in Catalysis DOI: https://doi.org/10.1007/s11244-021-01428-x	Corresponding Author	2021
15.	Title: H ₂ -rich Syngas from Glycerol Dry Reforming over Ni- Based Catalysts Supported on Alumina from Aluminum Dross Authors: NA Roslan, SZ Abidin, OU Osazuwa, SY Chin, YH Taufiq-Yap Journal: International Journal of Hydrogen Energy DOI: https://doi.org/10.1016/j.ijhydene.2021.03.162	Corresponding Author	2021
16.	Title: Synergistic Catalysis of Bi-Metals in the reforming of Biomass-Derived Hydrocarbons: A Review Authors: Nor Shafiqah Mohd-Nasir, Osarieme Uyi Osazuwa, Sumaiya Zainal Abidin Journal: International Journal of Hydrogen Energy DOI: https://doi.org/10.1016/j.ijhydene.2021.01.144	Corresponding Author	2021
17.	Title: An Insight into the Effects of Synthesis Methods on Catalysts Properties For Methane Reforming Authors: Osarieme Uyi Osazuwa, Sumaiya Zainal Abidin, Xiaolei Fan, Andrew Nosakhare Amenaghawon, Mohammad Tazli Azizan Journal: Journal of Environmental Chemical Engineering https://doi.org/10.1016/j.jece.2021.105052	Corresponding Author	2021
18.	Title: Development of Nanosilica-Based Catalyst for Syngas Production via CO ₂ Reforming of CH ₄ : A Review Authors: Chi Cheng Chong, Yoke Wang Cheng, Mahadi B Bahari, Lee Peng Teh, Sumaiya Zainal Abidin, Herma Dina Setiabudi Journal: International Journal of Hydrogen Energy DOI: https://doi.org/10.1016/j.ijhydene.2020.01.086	Co-author	2020
19.	Title: Catalytic Reforming of Oxygenated Hydrocarbons for the Hydrogen Production: An Outlook Authors: MT Azizan, A Aqsha, M Ameen, A Syuhada, H Klaus, SZ Abidin, F Sher Journal: Biomass Conversion and Biorefinery DOI: https://doi.org/10.1007/s13399-020-01081-6	Co-author	2020
20.	Title: The Functionality of Ion Exchange Resins for Esterification, Transesterification and Hydrogenation Reactions Authors: OU Osazuwa, SZ Abidin Journal: Chemistry Select DOI: https://doi.org/10.1002/slct.202001381	Corresponding Author	2020
21.	Title: An Overview on the Role of Lanthanide Series (Rare Earth Metals) in H ₂ and Syngas Production from CH ₄ Reforming Processes Authors: OU Osazuwa, SZ Abidin Journal: Chemical Engineering Science DOI: https://doi.org/10.1016/j.ces.2020.115863	Corresponding Author	2020
22.	Title: Waste Materials as the Potential Phase Change Material Substitute in Thermal Energy Storage System: A Review Authors: Siti Amirah Abdul Ghani, Saidatul Shima Jamari, Sumaiya Zainal Abidin Journal: Chemical Engineering Communications https://doi.org/10.1080/00986445.2020.1715960	Corresponding Author	2020
23.	Title: La-doped Cobalt Supported on Mesoporous Alumina Catalysts for Improved Methane Dry Reforming and Coke Mitigation Authors: Ngoc Thang Tran, Quyet Van Le, Nguyen Van Cuong, Trinh Duy Nguyen, Nguyen Huu Huy Phuc, Pham TT Phuong, Minhaj Uddin Monir, Azrina Abd Aziz, Quang Duc Truong, Sumaiya Zainal Abidin, Sonil Nanda, Dai-Viet N Vo Journal: Journal of Energy Institute DOI: https://doi.org/10.1016/j.joei.2020.01.019	Corresponding Author	2020

No.	Articles	Position	Date/Year
24.	Title: Hydrogen Production by Glycerol Dry Reforming over Rhenium Promoted Ni-Based Catalyst Supported on Santa Barbara Amorphous 15 (SBA-15) Authors: Nurul Asmawati Roslan, Nur Nabillah Mohd Arif, Jessy Lynn Jaspin, Nurul Aini Mohamed Razali, Sumaiya Zainal Abidin Journal: Energy Sources, Part A: Recovery, Utilization, and Environmental Effects DOI: https://doi.org/10.1080/15567036.2019.1645762	Corresponding Author	2019
25.	Title: A Review on Glycerol Reforming Processes Over Ni- Based Catalyst for Hydrogen and Syngas Productions Authors: NA Roslan, SZ Abidin, A Ideris, DVN Vo Journal: International Journal of Hydrogen Energy DOI: https://doi.org/10.1016/j.ijhydene.2019.08.211	Corresponding Author	2019
26.	Title: The Synthesis of Sulphonated Hypercrosslinked Exchange Resin for Free Fatty Acid Esterification Authors: NA Roslan, N Abdullah, SZ Abidin Journal: Comptes Rendus Chimie DOI: https://doi.org/10.1016/j.crci.2019.08.004	Corresponding Author	2019
27.	Title: Extraction of Light, Medium and Heavy Rare Earth Elements using Synergist Extractants Developed from Ionic Liquid and Conventional Extractants Authors: NN Hidayah, SZ Abidin Journal: Comptes Rendus Chimie DOI: https://doi.org/10.1016/j.crci.2019.10.006	Corresponding Author	2019
28.	Title: Kinetic Studies of the Esterification of Acrylic Acid with 2- Ethyl Hexanol Catalyzed by Diaion Resins Authors: MAAB Ahmad, SY Chin, SBZ Abidin Journal: Journal of Chemical Engineering of Japan DOI: https://doi.org/10.1252/jcej.17we063	Co-author	2019
29.	Title: Hydrogen Production via CO ₂ Dry Reforming of Glycerol over Re-Ni/CaO Catalysts Authors: Nur Nabillah Mohd Arif, Sumaiya Zainal Abidin , Osarieme Uyi Osazuwa, Dai-Viet N. Vo, Mohammad Tazli Azizan, Yun Hin Taufiq-Yap Journal: International Journal of Hydrogen Energy DOI: https://doi.org/10.1016/j.ijhydene.2018.06.084	Corresponding Author	2019
30.	Title: Hydrogen Production from Glycerol Dry Reforming over Ag-Promoted Ni/Al ₂ O ₃ Authors: Norazimah Harun, Sumaiya Zainal Abidin, Osarieme Uyi Osazuwa, Yun Hin Taufiq-Yap, Mohammad Tazli Azizan Journal: International Journal of Hydrogen Energy DOI: https://doi.org/10.1016/j.ijhydene.2018.03.093	Corresponding Author	2019
31.	Title: Studies on the Performance of Tubular Flow Reactor for Esterification of Free Fatty Acid from Used Cooking Oil Using Highly Porous Cation Exchange Resin as Catalyst Authors: N. M. Yunus, S. Z. Abidin, Chin S.Y. Journal: Energy Sources, Part A: Recovery, Utilization, and Environmental Effects DOI: https://doi.org/10.1080/15567036.2018.1503757	Corresponding Author	2018
32.	Title: The Evolution of Mineral Processing in Extraction of Rare Earth Elements using Liquid-Liquid Extraction: A Review Authors: Nur Nadiatul Hidayah, Sumaiya Zainal Abidin Journal: Minerals Engineering DOI: https://doi.org/10.1016/j.mineng.2018.03.018	Corresponding Author	2018
33.	Title: The Evolution of Mineral Processing in Extraction Of Rare Earth Elements using Solid-Liquid Extraction over Liquid-Liquid Extraction: A Review Authors: Hidayah, N.N., Abidin, S.Z. Journal: Minerals Engineering DOI: https://doi.org/10.1016/j.mineng.2017.07.014	Corresponding Author	2017
34.	Title: Syngas Production from Methane Dry Reforming over Ni/SBA-15 Catalyst: Effect of Operating Parameters Authors: Osaze Omoregbe, Huang T. Danh, Chinh Nguyen-Huy, Setiabudi, H.D., Abidin, S.Z., Quang Duc Truong, Dai-Viet N. Vo Journal: International Journal of Hydrogen Energy DOI: https://doi.org/10.1016/j.ijhydene.2017.03.146	Co-author	2017

No.	Articles	Position	Date/Year
35.	Title: Reforming of Glycerol for Hydrogen Production over Ni Based Catalysts: Effect of Support Type Authors: Nur Nabillah Mohd Arif, Nursofia Mohd Yunus, Norazimah Harun, Mohammad Tazli Azizan, Vo Nguyen Dai Viet, Sumaiya Zainal Abidin Journal: Energy Sources, Part A: Recovery, Utilization, and Environmental Effects DOI: https://doi.org/10.1080/15567036.2016.1244580	Corresponding Author	2017
36.	Title: Comparison of Novozyme 435 and Purolite D5081 as Heterogeneous Catalysts for the Pretreatment of Used Cooking Oil for Biodiesel Production Authors: Haigh, K. F., Abidin, S. Z. , Saha, B., Vladisavljević, G. T. Journal: Fuel	Co-author	2013
37.	DOI: https://doi.org/10.1016/j.fuel.2013.04.056 Title: Quantitative Analysis of Fatty Acids Composition in the Used Cooking Oil (UCO) by Gas Chromatography-Mass Spectrometry (GC–MS) Authors: Abidin, S. Z., Patel, D., Saha, B. Journal: Canadian Journal of Chemical Engineering DOI: https://doi.org/10.1002/cjce.21848	First Author	2013
38.	Title: Esterification of Free Fatty Acids in Used Cooking Oil Using Ion-Exchange Resins as Catalysts: An Efficient Pretreatment Method for Biodiesel Feedstock Authors: Abidin, S. Z., Haigh, K. F., Saha, B. Journal: Industrial and Engineering Chemistry Research DOI: https://doi.org/10.1021/ie3007566	First Author	2012
39.	Title: Effects of Temperature and Solvent Concentration on the Solvent Crystallization of Palm-Based Dihydroxystearic Acid with Isopropyl Alcohol Authors: Koay, G. F. L., Chuah, T. G., Zainal-Abidin, S., Ahmad, S. & Choong, T. S. Y. Journal: Particoulogy DOI: https://doi.org/10.1016/j.partic.2011.04.011	Co-author	2012
40.	Title: Development, Characterization and Commercial Application of Palm Based Dihydroxystrearic Acid and its Derivative: An Overview Authors: Koay, G. F. L., Chuah, T. G., Zainal-Abidin, S., Ahmad, S., Choong, T. S. Y. Journal: Journal of Oleo Science DOI: https://doi.org/10.5650/jos.60.237	Co-author	2011
41.	Title: Solvent Crystallization of Palm Based Dihydroxystearic Acid with Isopropyl Alcohol: Effects of Solvent Quantity and Concentration on Particle Size Distribution, Crystal Habit and Morphology, and Resultant Crystal Purity Authors: Koay, G. F. L., Chuah, T. G., Zainal-Abidin, S., Ahmad, S., Choong, T. S. Y. Journal: Industrial Crops and Products DOI: https://doi.org/10.1016/j.indcrop.2011.03.030	Co-author	2011
42.	Title: Effect of Solvent Concentration and Cooling Modes on Morphology, Particle Size Distribution, and Yield of Dihydroxystearic Acid (DHSA) Crystals Authors: Sumaiya, Z. A., Luqman Chuah, A., Koay, G. F. L., Salmiah, A., Choong, T. S. Y. Journal: Particulate Science and Technology DOI: https://doi.org/10.1080/02726351.2010.481583	First author	2010
43.	Title: Habit and Morphology Study on the Palm-Based 9,10-Dihydroxystearic Acid (DHSA) Crystals Authors: Koay, G. F. L., Chuah, T. G., Zainal-Abidin, S., Ahmad, S., Choong, T. S. Y. Journal: Materials Chemistry and Physics DOI: https://doi.org/10.1016/j.matchemphys.2008.09.069	Co-author	2009
44.	Title: Liquid-liquid Extraction of Cerium using Synergist Extractant Authors: N.N. Hidayah, M.F.S. Nurihan and S.Z. Abidin Journal: Journal of Mechanical Engineering and Sciences DOI: https://doi.org/10.15282/jmes.12.1.2018.2.0296	Corresponding Author	2018
45.	Title: Studies on Free Fatty Acid Esterification of Used Cooking Oil: Investigation on the Performance of Sulphonated Cation Exchange Resins	Corresponding Author	2018

No.	Articles	Position	Date/Year
	Authors: S. Z. Abidin, N. M. Yunus, S. A. A. Ghani, N. A. R.Roslan & Chin S.Y. Journal: Biofuels DOI: https://doi.org/10.1080/17597269.2017.1378990		
46.	Title: A Preliminary Study: Esterification of Free Fatty Acids (FFA) in Artificially Modified Feedstock using Ionic Liquids as Catalysts Authors: Nurul Asmawati Roslan, Mohammad Haniff Che Hasnan, Norhayati Abdullah, Syamsul Bahari Abdullah, Sumaiya Zainal Abidin Journal: Bulletin of Chemical Reaction Engineering & Catalysis DOI: https://doi.org/10.9767/bcrec.11.2.549.182-190	Corresponding Author	2016
47.	Title: Carbon Dioxide Dry Reforming Of Glycerol for Hydrogen Production using Ni/Zro ₂ and Ni/Cao as Catalysts Authors: Nur Nabillah Mohd Arif, Dai-Viet N. Vo, Mohammad Tazli Azizan, Sumaiya Zainal Abidin Journal: Bulletin of Chemical Reaction Engineering & Catalysis, 11, 200-209, DOI: https://doi.org/10.9767/bcrec.11.2.551.200-209	Corresponding Author	2016
48.	Title: Characterization of Ag-Promoted Ni/SiO ₂ Catalysts for Syngas Production via Carbon Dioxide (CO ₂) Dry Reforming of Glycerol Authors: Norazimah Harun, Jolius Gimbun, Mohammad Tazli Azizan, Sumaiya Zainal Abidin Journal: Bulletin of Chemical Reaction Engineering & Catalysis DOI: http://dx.doi.org/10.9767/bcrec.11.2.553.220-229	Corresponding Author	2016
49.	Title: Pretreatment of Used Cooking Oil for the Preparation of Biodiesel using Heterogeneous Catalysis Authors: Kathleen F. Haigh, Sumaiya Zainal Abidin, Basu Saha, Goran T. Vladisavljević Journal: Progress in Colloids and Polymer DOI: https://doi.org/10.1007/978-3-642-28974-3_4	Co-author	2012
50.	Title: Synthesis and Characterization of Modified Sago Starch Films for Drug Delivery Application Authors: Shabirah Ezan, Sumaiya Zainal Abidin , Fatmawati Adam Journal: Australian Journal of Basic and Applied Sciences e-ISSN: : 2309-8414	Co-author	Jan 2017
51.	Title: Biodiesel in Holy Quran: Among the Review of the Arabic Lexicography and Modern Science Author: Ramli, S., Abidin, S.Z. , Husin, A. F. H. Journal: Mediterranean Journal of Social Sciences DOI: https://doi.org10.5901/mjss.2014.v5n19p336	Co-author	Aug 2014
Proc	eedings		
1.	Title: Synthesis and characterization of stearic acid/waste filler materials as composite phase change material in thermal energy storage application Author: SAA Ghani, MNN Shafiqah, SZ Abidin Journal: Materials Today: Proceedings DOI: https://doi.org/10.1016/j.matpr.2023.06.363	Corresponding Author	2023
2.	Title: Syngas Production from Glycerol Dry Reforming using Nd ₂ RuO ₅ Perovskite Catalysts Author: Ahmad Faiz Malek, Siti Nor Amira Rosli, Nurul Asmawati Roslan, Mohd-Nasir Nor Shafiqah, William Mah Wey Lian, Nur Aqilah Mohd Razali, Osarieme Uyi Osazuwa and Sumaiya Zainal Abidin Journal: AIP Conference Proceeding DOI: https://doi.org/10.1063/5.0100097	Corresponding Author	2022
3.	Title: Comparison on the Physicochemical Properties of Alumina Extracted from Various Aluminum Wastes Authors: SM Mohamad, NA Roslan, SZ Abidin Journals: Materials Today: Proceedings DOI: https://doi.org/10.1016/j.matpr.2021.09.561	Corresponding Author	2021
4.	Title: Extracted γ-Al ₂ O ₃ from Aluminum Dross as a Catalyst Support for Glycerol Dry Reforming Reaction	Corresponding Author	2021

No.	Articles	Position	Date/Year
	Authors: NA Roslan, SZ Abidin, NS Nasir, SY Chin, YH		
	Taufiq-Yap Journals: Materials Today: Proceedings		
	DOI: https://doi.org/10.1016/j.matpr.2020.09.390		
	Title: Characterization of Stearic Acid and Paraffin Incorporated with Aluminium as Filler for the Development of		
	Phase Change Material Composite in Thermal Energy Storage	Corresponding	
5.	Authors: SZ Abidin, SAA Ghani, UO Osarieme, SS Jamari Journal: IOP Conference Series: Materials Science and	Author	2020
	Engineering		
	DOI: https://doi.org/10.1088/1757-899X/991/1/012077		
	Title: Synthesis and Characterization of Phase Change Material Integrated with Aluminium Waste as the Thermal		
	Energy Storage Medium		
6.	Authors: S A A Ghani, S SJamari, S Z Abidin Journal: IOP Conference Series: Materials Science and	Corresponding Author	2020
	Engineering	Autiloi	
	DOI: https://doi.org/10.1088/1757-899X/736/3/032004		
	Title: Aqueous Phase Reforming of Sorbitol over Ca Doped Ni/Al ₂ O ₃ for Value-Added Chemicals Production		
	Authors: Mohamad Razlan Md Radzi, Mohammad Tazli		
7.	Azizan, Nur Fatin Dariah Mohamad Daud, Muhammad Azizi Topek, Sumaiya Zainal Abidin	Co-author	2018
	Journal: Materials Today: Proceeding		
	DOI: https://doi.org/10.1016/j.matpr.2018.07.025		
	Title: Esterification of Free Fatty Acid in Used Cooking Oil using Gelular Exchange Resin as Catalysts		
8.	Authors: Nursofia Binti Mohd Yunus, Nurul Asmawati Binti	Corresponding	2016
0.	Roslan, Chin Sim Yee, Sumaiya Zainal Abidin Journal: Procedia Engineering	Author	2010
	DOI: https://doi.org/10.1016/j.proeng.2016.06.450		
	Title: Influence of Lanthanide Promoters on Ni/SBA-15		
	Catalysts for Syngas Production by Methane Dry Reforming Authors: Osaze Omoregbe, Huong T. Danh, Abidin, S.Z.,		
9.	Setiabudi, H.D. Bawadi Abdullah, Khanh B. Vu & Dai-Viet N.	Co-author	2016
	Vo Journal: Procedia Engineering		
	DOI: https://doi.org/10.1016/j.proeng.2016.06.556		
	Title: Synthesis and Characterization of Stearic Acid/Waste Filler Materials as Composite Phase Change Material in		
10.	Thermal Energy Storage Application	Corresponding	15/11/22
	Conference: 6 th National Conference for Postgraduate	Author	
	Research (NCON-PGR 2022) Conference: 6 th International Conference of Chemical	Corresponding	15/08/22 –
11	Engineering and Industrial Biotechnology (ICCEIB2022)	Author	16/08/22
	Title: Hydrogen Production via Glycerol Dry Reforming Reaction Over Ru-Ni-Supported on Extracted Alumina from		
40	Aluminum Dross: A	Corresponding	03/11/21 –
12	Kinetic Evaluation	Author	05/11/21
	Conference: 2 nd Energy Security And Chemical Engineering Congress (ESChE 2021)		
	Title: Comparison on Physicochemical Properties of		
13	Mesoporous Alumina Extracted from Various Aluminum Wastes Conference: International Symposium of Reaction	Corresponding Author	06/04/21
	Engineering, Catalysis & Sustainable Energy (RECaSE2021)	Author	
	Title: Effective Combination of Metal-Support for Bimetallic	0 "	0/00/00
14	Catalysts System in Ethanol and Glycerol Reforming: A Review Conference: 5 th International Conference of Chemical	Corresponding Author	9/08/20 – 11/08/20
	Engineering and Industrial Biotechnology (ICCEIB2020)	7101101	11/00/20
	Title: The Utilization of Phase Change Material Composite Derived from Fatty Acid and Waste Materials as Thermal		
15	Energy Storage Medium	Corresponding	17/07/19
	Conference: Energy Security and Chemical Engineering	Author	- 19/07/19
	Congress 2019 (ESChE 2019) Title: Review on the Utilization of Waste Material as a Potential		
	Substitute for the Phase Change Material used in Thermal	Corresponding	01/08/18 —
16	Energy Storage System Conference: 4 th International Conference of Chemical	Author	02/08/18
I	Engineering & Industrial Biotechnology (ICCEIB) 2018		

No.	Articles	Position	Date/Year
17	Title: Hydrogen Production via CO ₂ Dry Reforming of Glycerol over Re-Ni/Cao Catalysts Conference: 4 th International Conference of Chemical Engineering & Industrial Biotechnology (ICCEIB) 2018	Corresponding Author	01/08/18 - 02/08/18
18	Title: Aqueous Phase Refroming of Sorbitol over Snosynthesized Ca Doped Ni Supported on Al ₂ O ₃ and TiO ₂ for Production of Value Added Chemicals Conference: 4 th International Conference of Chemical Engineering & Industrial Biotechnology (ICCEIB) 2018	Co-author	01/08/18 – 02/08/18
19	Title: Syngas Production for Glycerol Dry Reforming over Agpromoted Ni/Al ₂ O ₃ Conference: 3 rd International Conference on Hydrogen Energy	Corresponding Author	11/09/17 – 13/09/17
20	Title: Investigation on Performance of Tubular Flow Reactor on FFA Esterification from Used Cooking Oil using Highly Porous Cation Exchange Resin as Catalyst Conference: The 17th Congress Asian Pacific Confederation of Chemical Engineering 2017	Corresponding Author	23/08/17 – 27/08/17
21	Title: The Comparison on the Extraction Effects of Dy, Gd and Pr using Synergist Extractants and Independent Extractants in Liquid-Liquid Extraction Conference: The 17th Congress Asian Pacific Confederation of Chemical Engineering 2017	Corresponding Author	23/08/17 – 27/08/17
22	Title: Adsorption of Dy using Synergist Extractant Immobilised on Resin Conference: 2 nd International Conference of Separation Technology (ICOST 2017)	Corresponding Author	15/04/17 — 16/04/17
23	Title: Kinetic Studies of Free Fatty Acid Esterification Using Cation Exchange Resins as Catalyst Conference: International Conference on Fluids and Chemical Engineering (FluidsChE 2017)	Corresponding Author	04/04/17 — 6/04/17
24	Title: Application of Modified Sago Starch as an Alternative for Drug Delivery Carrier Conference: 3 rd International Conference of Chemical Engineering & Industrial Biotechnology (ICCEIB) 2016	Co-author	28/11/16 – 30/11/16
25	Title: Liquid-liquid Extraction of Cerium using Synergist Extractant Conference: 3 rd International Conference of Chemical Engineering & Industrial Biotechnology (ICCEIB) 2016	Corresponding Author	28/11/16 – 30/11/16
26	Title: Esterification of Free Fatty Acid in Used Cooking Oil Using Gelular Exchange Resin as Catalysts Conference: 4 th International Conference on Process Engineering and Advanced Materials (ICPEAM 2016)	Corresponding Author	15/08/16 – 17/08/16
27	Title: Influence of Lanthanide Promoters on Ni/SBA-15 Catalysts for Syngas Production by Methane Dry Reforming Conference: 4 th International Conference on Process Engineering and Advanced Materials (ICPEAM 2016)	Corresponding Author	15/08/16 — 17/08/16
28	Title: Syngas Production from Methane Dry Reforming over Ni/SBA-15 Catalyst: Effect of Operating Parameters Conference: 251st ACS National Meeting & Explosion	Corresponding Author	13/03/16 – 17/03/16
29	Title: Effect of Different Oxides Support on Ni-Based Catalysts to the Syngas Production for Carbon Dioxide (CO ₂) Dry Reforming of Glycerol Conference: 3 rd International Conference on Catalysis for Renewable Sources: Fuel, Energy, Chemicals	Corresponding Author	6/09/15– 11/09/15
30	Title: Carbon Dioxide (CO ₂) Dry Reforming of Glycerol for Hydrogen Production using Ni/ZrO ₂ and Ni/CaO as Catalysts Conference: International Conference on Fluids and Chemical Engineering (FluidsChE 2015)	Corresponding Author	25/11/15 – 27/11/15
31	Title: Esterification of Free Fatty Acids (FFAs) from Highly Acidified Oil using Ionic Liquid Polymer as Catalyst Conference: International Conference on Fluids and Chemical Engineering (FluidsChE 2015)	Corresponding Author	25/11/15 – 27/11/15
31	Title: Production of Syngas through Carbon Dioxide (CO ₂) Dry Reforming of Glycerol using Ag-promoted on Ni/SiO ₂ as Catalysts Conference: International Conference on Fluids and Chemical Engineering (FluidsChE 2015)	Corresponding Author	25/11/15 – 27/11/15
32	Title: Kinetics of Free Fatty Acid Esterification in Used Cooking Oil using Ion Exchange Resin as Catalyst	Corresponding Author	15/09/14 – 16/09/14

No.	Articles	Position	Date/Year
	Conference: 6 th International Conference on Chemical, Biological and Environmental Engineering (ICBEE 2014)		
33	Title: Industry Involvement in Undergraduate Research Project for Chemical Engineering (Biotechnology) Programme Conference: International Conference on Teaching and Learning in Computing and Engineering, Sarawak, Malaysia	Co-author	10/04/14 — 14/04/14
34	Title: Two Stage Esterification Transesterification Process for Synthesis of Biodiesel from Used Cooking Oil (UCO) using Novel Heterogenous Catalysts Conference: 9 th World Congress of Chemical Engineering	Corresponding Author	18/08/13 – 23/08/13
35	Title: Esterification of Free Fatty Acids using Ion Exchange Resin as a Catalyst: An Efficient Pre-Treatment Method for Biodiesel Production Conference: 3 rd International Congress on Green Process Engineering, Kuala Lumpur	Corresponding Author	6/12/11– 8/12/11
36	Title: Esterification of Free Fatty Acids in Used Cooking Oil using Ion-Exchange Resins as Catalysts Conference: 8 th European Congress of Chemical Engineering together with ProcessNet-Annual Meeting Berlin, Germany	Corresponding Author	25/09/11 – 29/09/11
37	Title: Controlled and Natural Cooling Crystallization of Palm Based Dihydroxystearic Acid (DHSA) – Effect on the Yield, Purity and Crystal Size Distribution Conference: 15 th Regional Symposum on Chemical Engineering (RSCE) - 22 nd Symposium of Malaysian Chemical Engineers (SoMChE) 2008	Corresponding Author	2/12/08 – 3/12/08
38	Title: Seeded Crystallization of Dihydroxystearic Acid (DHSA) – Effect on Yield, Purity and Crystal Size Distribution Conference: Regional Symposium of Chemical Engineering (RSCE 2007), Jogjakarta, Indonesia	Corresponding Author	4/12/07 – 5/12/07
39	Title: Solvent Crystallization of Palm Based Dihydroxystearic Acid (DHSA) – Effects on Crystal Morphology and Particle Size Distribution Conference: Asian Particle Technology Symposium 2007 (APT 2007), Beijing, China	Corresponding Author	3/09/-7 – 5/09/07

RESEARCH GRANTS

No.	Project ID	Research Title	Jumlah (RM)	Duration	Position			
Inter	International Grants							
1	UIC 171513 (14-337)	Investigation on the Performance of Packed Bed Reactor (PBR) in the Continuous Catalytic Esterification of Highly Acidified Oil using Heterogeneous Catalyst.	4000 USD	01/07/15- 30/06/17	Project leader			
Natio	onal Grants							
1	RDU220119	Elucidation of the Kinetics and Reaction Pathways of Biomass Tar Reforming with In-Situ CO ₂ Capture over CaO Waste- Derived Bifunctional Catalyst Sorbent	170694	01/09/22 -31/08/25	Project leader			
2	RDU190197	Reaction Kinetics and Mechanism of Glycerol Dry Reforming over Bimetallic Nickel-Based Catalyst Supported on Calcined Aluminum Dross	89270	01/01/19 - 31/12/20	Project leader			
3	RDU150115	Studies on Isotherm, Kinetic and Mechanism of Rare Earth Elements (REE) Adsorption on Polymeric Resin Supported Ionic Liquid (PSIL).	127500	2/11/15 1/05/18	Project leader			
4	RDU130108	Synthesis of Novel Catalysts for Carbon Dioxide (CO ₂) Dry Reforming of Glycerol for	92300	1/4/13 - 31/9/15	Project leader			

No.	Project ID	Research Title	Jumlah (RM)	Duration	Position
		Syngas Production using Noble Metal-Based Catalysts Supported on Oxides.			
5	RDU210143	Elucidation of Reaction Kinetics of Methane Dry Reforming over Ni/EFB Biochar Catalysts	123101	07/09/21 -06/09/23	Co-researcher
6	RDU210137	Elucidation of the Micro-Mixing and Micro-Separation Controlling Mechanisms in a Membrane- Less Microfluidic Desalination Chip	97029	07/09/21 - 06/09/23	Co-researcher
7	RDU210134	Elucidation of Reaction Mechanism and Kinetic Study of Photocatalytic Degradation of Poultry Wastewater using Zinc Oxide Nanoparticles Derived From Pineapple Waste	150845	07/09/21 -06/09/24	Co-researcher
8	RDU1901163	Elucidating the Metallic and Basic Sites of Ni-Supported Fibrous Nanosilica on Reaction Mechanism of Glycerol Dry Reforming	111530	01/09/19 - 31/08/21	Co-researcher
9	RDU1901100	Elucidate The Kinetic Mechanism of Air-Steam Downdraft Gasification Process to Enhance Product Gas Yield With Low Tar Content	71511	01/09/19 - 31/08/21	Co-researcher
10	RDU190106	The Role of Nanoparticle-Gemini Surfactant as Wax Deposition Suppressant in Malaysian Crude Oil using Molecular Dynamics (MD)Simulation	92000	01/01/19 - 31/12/20	Co-researcher
11	RDU170119	Metal-Support Interaction of Ni- Supported Palm Oil Fuel Ash Catalyst Produced from Self- Combustion Technique for Methane Cracking	84000	15/08/17 - 14/08/19	Co-researcher
12	RDU160120	Active Drag Reduction Technique for Enhancing the Liquid-Liquid Mixing Intensity in Micromixers	75000	1/08/16 - 31/07/18	Co-researcher
13	KTP-UPM	Oily Wastewater Treatment and Water Reuses in Oil and Gas Industry	110500	01/03/16 - 28/02/18	Co-researcher
14	RDU150804	Development of a Reactive Distillation Column Prototype to Convert Acrylic Acid in the Petrochemical Wastewater to Valuable Butyl Acrylate through Esterification	161418	1/12/15 - 30/11/17	Co-researcher
15	RDU150114	Photocatalytic Study of Rare- Earth Doped Oxides for Hydrogen Production via Photoreforming Process	119400	2/11/15 1/11/17	Co-researcher
16	FRGS-UTP	Determination of Kinetic Model And Reaction Pathway for Aqueous Phase Reforming of Sorbitol to Hydrogen over Ni/Al ₂ O ₃ Catalysts Doped Group II Metal Oxides	129800	2/11/15 - 1/11/18	Co-researcher
17	RDU140133	Synthesis and Characterisation of High Specific Surface Area Hydrophilic Polymer Particles	113000	1/7/14 - 30/6/17	Co-researcher
18	RDU140504	From molecule to product: Development of Stable Kappa- Carrageenan Capsule through Molecular Properties Manipulation	200000	15/5/14 14/12/16	Co-researcher

No.	Project ID	Research Title	Jumlah (RM)	Duration	Position
19	RDU130110	Effect of Surfactants-Polymers Physio-Chemical Interaction on the Mechanical Degradation of the Polymeric Drag Reducing Agents	82000	1/4/13 - 31/3/15	Co-researcher
Inter	nal Grants				
1	RDU223207	Aqueous Phase Reforming of Glycerol over Ni/CeO2 Doped with Noble Metal for the Production Of 1,3-Propanediol	20000	01/04/22 -31/03/24	Project leader
2	PDU203219	Development of 1L Prototype Reactor for the Production of Alumina from Aluminum Dross	40000	31/12/20 - 30/12/22	Project leader
3	RDU203304	Dry Reforming of Methane Over Promoted Nickel Based Catalyst Supported on Lanthanide Series Metals for Hydrogen-Rich Syngas Production	40000	10/11/20 - 09/11/22	Project leader
4	RDU1803118	Glycerol Dry Reforming over Bimetallic Nickel-Based Catalyst Supported on Calcined Aluminum Dross for Syngas Production	36600	15/06/18 - 14/06/20	Project leader
5	RDU170347	Synthesis, Characterization and Studies on the Thermal Storage Performance of Encapsulated Phase Change Material Composite Derived from Waste Materials	34500	01/4/17 - 01/4/19	Project leader
6	RDU140357	Investigation on the Performance of Tubular Flow Reactor on the Esterification of Highly Acidified Oil Using Heterogeneous Catalyst	29044	15/05/14 - 14/11/16	Project leader
7	RDU130311	Synthesis and Characterization of Heterogeneous Catalyst for the Esterification of Free Fatty Acid in Acidified Oil	38650	15/5/13 14/5/15	Project leader
8	RDU070374	Development of Novel Catalyst for Biodiesel Production from Waste Cooking Oil	20000	3/09/07 - 02/09/08	Project leader
9	RDU223218	Synthesis of Sustainable Fuel from Oil Palm Residue	20000	01/09/22 - 31/08/24	Co-researcher
10	RDU220332	Correlation Between Surface Properties and Catalytic Performance of Palm Oil Kernel Shell-Derived Carbon Catalyst for COx-Free H ₂ Production	35020	15/07/22 - 14/07/24	Co-researcher
11	RDU200765	Ethylene Production from Ethanol Dehydration over SBA- 15 Derived from Palm Oil Fly Ash	25000	01/11/20 - 30/10/22	Co-researcher
12	RDU200734	Elucidating the Mechanism of Biomass to Solid Fuel via Microwave Assisted Oxidative Torrefaction	20000	23/12/20 - 22/12/22	Co-researcher
13	RDU1903142	Investigating the Effect of Ionic Resins on the Seawater Desalination Performance using Microfluidics Technology	34000	26/12/19 - 25/03/22	Co-researcher
14	RDU182204-2	Antioxidant and Protease from Local Fish Processing Industry Waste	73800	15/10/18 14/10/21	Co-researcher

No.	Project ID	Research Title	Jumlah (RM)	Duration	Position
15	RDU180326	Synthesis of Alumina from Aluminium Can Waste in Producing High Surface Alumina as Photocatalyst Support for the Treatment of Palm Oil Mill Effluent (POME)	34500	05/04/18 - 31/03/20	Co-researcher
16	RDU172202	Catalytic Conversion of Palm Oil Mill Effluent into Biogasoline	98232	28/06/17 - 27/06/19	Co-researcher
17	RDU170326	Bi-Reforming of Methane for Syngas Production via Promoted Ni/SBA-15 Catalyst	35000	01/03/17 - 01/03/19	Co-researcher
18	RDU170330	Synthesis of Ni Promoted Mesoporous Silica from Sedge as an Agriculture Waste for CO ₂ Conversion	36900	01/03/17 - 01/03/19	Co-researcher
19	UIC160906	Vegetarian Capsule for Drug Delivery Carrier	80000	15/01/17 - 14/01/18	Co-researcher
20	RDU160331	Green Synthesis: Photo-Initiated Polymer Dispersion Polymerization	32568	25/05/16 - 24/05/18	Co-researcher
21	RDU160339	Extraction of Lanthanide using Ionic Liquid	34500	25/05/16 - 24/05/18	Co-researcher
22	RDU150382	Synthesis and Characterization of Ni-Based Catalysts Modified with rare Earth and Alkaline Metal Oxides (Ceo ₂ , La ₂ O ₃ , Bao) for Methane Cracking	35000	01/10/15 - 30/09/17	Co-researcher
23	RDU140374	Fundamental Investigation of Methane Dry Reforming over Lanthanide-Group Promoted Co/Al ₂ O ₃ Catalysts	39000	01/06/14 - 31/05/16	Co-researcher
24	RDU140315	Synthesis and Characterization of EFB-Clinker Supported Nickel Catalyst for Syngas Production from Reactive Fluid Mixture of CO ₂ -CH ₄	24900	01/04/14 - 31/03/16	Co-researcher
25	RDU070301	Development of Chitosan based Adsorbent for Removal of Oil from Industrial Wastewater	150000	30/03/07 - 30/03/08	Co-researcher
26	PGRS210382	Methane Dry Reforming over Electrospun Nanofibrous Ni- Based Catalyst for Hydrogen- Rich Syngas Production	4200	01/06/21 - 31/05/24	Project leader
27	PGRS200361	Glycerol Dry Reforming over Ni- Based Bimetallic Catalysts for Syngas Production	4300	26/06/20 - 25/06/23	Project leader
28	PGRS1903121	The CO ₂ Reforming of Glycerol over Supported Bi-Metallic Ni- Based Catalyst for Syngas	3500	15/10/19 - 14/10/22	Project leader
29	PGRS1803101	Synthesis and Characterization of Encapsulated Phase Change Material Composite Derived from Waste Materials as the Thermal Energy Storage (TES) Medium	2500	01/03/18 - 28/02/20	Project leader
30	PGRS170324	Studies on the Absorption Mechanism of Rare Earth Elements Extraction using Extractant Immobilised Resin	3000	01/03/17 - 01/03/19	Project leader
31	PGRS170320	Investigation on the Performance of Tubular Flow Reactor on the Esterification of Highly Acidified Oil using Heterogeneous Catalyst	2500	01/03/17 - 01/03/19	Project leader
32	PGRS160351	Modified Sago Starch Application for Pharmaceutical Drug Capsule	3000	01/05/16 - 30/04/18	Project leader

No.	Project ID	Research Title	Jumlah (RM)	Duration	Position
33	GRS150351	Synthesis of Novel Catalyst for Carbon Dioxide (CO ₂) Dry Reforming of Glycerol for Syngas Production using Noble Metal Promoted on Ni-Based Catalyst Supported on Oxide	2650	15/03/15 – 14/03/17	Project leader
34	GRS150344	Investigations on the Carbon Dioxide (CO ₂) Dry Reforming of Glycerol for Syngas Production using Promoted-Nickel (Ni) Based Catalyst Supported on Oxides	2000	15/03/15 – 14/03/17	Project leader
35	GRS1403159	Esterification of Free-Fatty Acids from Highly Acidified Oil using Hypercrosslinked Polymer as Catalyst	1500	15/03/15 – 14/03/17	Project leader
Indu	stry Grants				
1	UIC220827	Techno Economicanalysis of Alumina Production from Aluminum Dross Company: EPIC Sdn. Bhd.	30000	01/10/22 - 28/02/23	Principal Investigator
2	UIC170807	Waste to Wealth Project with MERCU Resolution Company: MERCU Resolution	15000	24/06/17 24/06/19	Co-Investigator
3	UIC150705	Developing CMSS Application in Pharmaceutical as HALAL Binder, Thickener and Soft and Hard Capsule Company: My Synergy Sdn. Bhd. (PPRN)	30093	01/06/15 -31/03/16	Co-Investigator
4	UIC150704	CMSS (Carboxymethylated Sago Starch) as Halal Thickener for Food and Beverages Industry Company: My Synergy Sdn. Bhd. (PPRN)	25200	11/06/15 -30/03/16	Co-Investigator

INTELLECTUAL PROPERTY

No.	Products	Status	Position	Level
1	A Novel Process for Alumina Production	Application Date: 15 Sept 2022 Application No.: PI2022005051	Main	National
2	Preparation of 2-Ethyl Acrylate from Wastewater	Application Date: 4 Dec 2018 Application No.: PI2018400028	Co-patentee'	National
3	A Method of Producing a Diol from Renewable Resources	Application Date: 26 Apr 2018 Application No.: PI2018701675 Granted Date: 20 Sep 2022 Grant No.: MY-192977-A	Co-patentee'	National
4	An Immobilized Extractant and a Method Producing The Same	Application Date: 14 May 2018 Application No.: PI2018000708	Main	National
5	Sulphonated Crosslinked Polymer	Application Date: 18 Aug 2016 Application No.: UI 2016703017 Granted Date: 18 May 2021 Grant No.: MY-185408-A	Main	National
6	Recycling of Used Cooking Oil to Biodiesel	Application Date: 30 Jan 2008 Application No.: PI20080176 Granted Date: 10 Nov 2020 Grant No: MY-179537-A	Co-patentee'	National

POSTGRADUATE SUPERVISION

Student's		Title of Thesis/Project	Ro	ole	Progress
Name	Program	Title of Thesis/Froject	Main	Со	Supervision

Siti Nor Amira	PhD	CO ₂ Reforming of Methane over Fibrous Metal Catalyst for Syngas Production	V		In Progress
Nor Shafiqah Mohd Nasir	PhD	CO ₂ Reforming of Glycerol over Supported Bimetallic Nickel Based Catalyst for Syngas Production	1		In Progress
Nurul Asmawati Roslan	PhD	CO ₂ Reforming of Glycerol over Promoted Nickel-Based Catalyst for Syngas Production	1		Completed
Tran Ngoc Thang	PhD	Methane Dry Reforming of Syngas Generation over Promoted Co-based Catalyst	1		Completed
Amirul Asyraf b Ahmad	PhD	Kinetics and Mass Transfer of Esterification of Diluted Acrylic Acid with 2-Ethyl Hexanol in a Tubular Packed Bed Reactor		1	Completed
Nur Nadiatul Hidayah Shaikh Rohmat	PhD	Studies on Isotherm, Kinetics and Mechanism of Rare Earth Elements Adsorption on Polymeric Resin Supported Ionic Liquid	1		Completed
Nursofia Mohd Yunus	MSc	Kinetic Studies on the Esterification of Free Fatty Acid in Used Cooking Oil using Cation Exchange Resins as Catalyst	1		Completed
Nurul Asmawati Roslan	MSc	Esterification of Free Fatty Acid in Used Cooking Oil using Sulphonated Hypercrosslinked Exchange Resin as Catalyst	1		Completed
Nur Nabillah Mohd Arif	MSc	Glycerol Dry Reforming for Hydrogen-Rich Production using 5%Re Promoted on Ni Based Catalyst Supported on Cao and ZrO ₂	1		Completed
Norazimah Harun	MSc	Glycerol Dry Reforming for Syngas Production Using Ag Promoted on Ni Based Catalyst Supported on Al ₂ O ₃ and SiO ₂	1		Completed
Osaze Omaregbe	MSc	Hydrogen Production from Ethanol Dry Reforming Over Ni-Based Catalysts		V	Completed

CONSULTATION WORK (INDUSTRY/PRIVATE/INTERNATIONAL)

Project Title	Year	Company	Classification	Total (RM)
Technical Services Title: Kinetic Investigation of Liquid-liquid Separation	2022	Lynas (Malaysia) Sdn. Bhd.	Consultation	450/hour (6 hours)
Vot No.: UCT22015 Title: Ester Products Development And Synthesis Optimisation Strategies	2022	Petronas Research Sdn. Bhd. (PRSB)	Consultation	1.8 million
Vot No: CTS190196 Title: Scale-up activities using batch reactor unit and sample testing associated.	2019	Petronas Research Sdn. Bhd. (PRSB)	Consultation	190700
Vot No: CTS190172 Ttile: Short Path Distillation Process and Sample Testing Analysis for PETRONAS Research Sdn Bhd	2019	Petronas Research Sdn. Bhd.(PRSB)	Consultation	28267
Vot No.: UCT140115 Title: Production of Biodiesel from Highly Acidified Oil	2014	Temasek Growth Sdn. Bhd.	Consultation	1500

ACADEMIC AWARD

No.	Academic Awards	Level
1	Award: FTKKP Achievement Award 2022 Title: Kategori RDCI (Penerbitan Terbanyak)	UMP
2	Award: FTKKP Achievement Award 2022 Title: Kategori RDCI Pameran Penyelidikan	UMP
3	Award: FTKKP Achievement Award 2022 Title: Kategori RDCI Pencapaian Kumpulan Kerja (RISE Cluster)	UMP
4	Award: Cendekia Bitara Award (<i>Journal Publication Category</i>), Malam Cendekia Bitara 2021, Universiti Malaysia Pahang Title: An Insight into the Effects of Synthesis Methods on Catalysts Properties for Methane Reforming	UMP

Award: Merit Award (Journal Publication Caregory), Malam Cendekia Bitara 2021, Universiti Malaysia Pahang Caregory), Malam Cendekia Bitara 2021, Universiti Malaysia Pahang Caregory, Malam Cendekia Bitara 2021, Universiti Malaysia Pahang Title: Synergislic catalysis of bi-meral Processing in Extraction Caregory), Malam Cendekia Bitara 2013, Universiti Malaysia Pahang Title: Caregory (Malam Cendekia Bitara 2013), Universiti Malaysia Pahang Caregory, Malam Cendekia Bitara 2013, Universiti Malaysia Pahang Caregory, Malam Cendekia Bitara Award (Presearch Product Category), Malam Cendekia Bitara 2013, Universiti Malaysia Pahang Caregory, Malam Cendekia Bitara 2018, Universiti Malaysia Pahang Title: Kategori RDC Penerbitan Journal Debitation Category), Malam Cendekia Bitara 2018, Universiti Malaysia Pahang Title: Kategori RDC Penerbitan Buku dan Modul UMP Caregory, Malam Cendekia Bitara 2018, Universiti Malaysia Pahang Title: Kategori RDC Penerbitan Buku dan Modul UMP Caregory, Malam Cendekia Bitara 2018, Universiti Malaysia Pahang Title: Kategori RDC Penerbitan Durmal Publication Category), Malam Cendekia Bitara 2014, Universiti Malaysia Pahang Title: Kategori RDC Penerbitan Journal Pub	No.	Academic Awards	Level
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6 Title: Kategori RAC (Penerbitan Technology), Malam Cendekia Bitara 2021, Universiti Malaysia Pahang Title: Synergistic catalysis of bi-metals in the reforming of biomass-derived hydrocarbons: A Review 7 Award: FTKKP Achievement Award 2019 Title: Kategori RAC (Penerbitan Terbanyak) 8 Award: FTKKP Achievement Award 2019 Title: Kategori RAC (Penerbitan Terbanyak) 9 Title: Kategori RAC (Penerbitan Terbanyak) Title: The Evolution of Mineral Processing in Extraction of Rare Earth Elements using Liquid-Liquid Extraction: A Review 10 Award: Cendekia Bitara Award (Journal Publication Category), Malam Cendekia Bitara 2013, Universiti Malaysia Pahang Title: Extraction of Rare Earth Element using Synergist Extractant Immobilized Resin (SEIR) Title: Categori RAcademic (Research Product Category), Malam Cendekia Bitara 2013, Universiti Malaysia Pahang Title: Extraction of Rare Earth Element using Synergist Extractant Immobilized Resin (SEIR) Title: Kategori RAcademic Memoral 2018 Title: Kategori RAcademic Khidmat Masyarakat/Komuniti/ Sukan (Q-Gen) 13 Award: FKKSA Achievement Award 2018 Title: Kategori RACademic Khidmat Masyarakat/Komuniti/ Sukan (Q-Gen) 14 Award: FKKSA Achievement Award 2018 Title: Kategori RACI Geran Kebangsean (FRGS) 15 Award: FKKSA Achievement Award 2018 Title: Kategori RACI Geran Rebangsean (FRGS) 16 Award: FKKSA Achievement Award 2018 Title: Kategori RACI Penerbitan Journal 17 Title: Kategori RACI Penerbitan Journal 18 Award: FKKSA Achievement Award 2018 Title: Kategori RACI Penerbitan Journal 19 Award: FKKSA Achievement Award 2018 Title: Kategori RACI Penerbitan Journal 10 Award: FKKSA Achievement Award 2018 Title: Kategori RACI Penerbitan Buku dan Modul Award: Creckia Bitara Award (Journal Publication Category), Malam Cendekia Bitara 2018, Universiti Malaysia Pahang Title: Categori RACI Penerbitan Journal 10 Title: Kategori RACI Penerbitan Journal 11 Award: Kerik Award (Journal Publication Category), Malam Cendekia Bitara 2017, Universiti Malaysia Pahang Title: Categori Raci Marka Mar			
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Award: Merit Award (Research Product Category), Malam Cendekia Bitara 2017, Universiti Malaysia Pahang Title: Sulphonated Hypercrosslinked Exchange Resin (SHER) as Catalyst in Reaction Process. Award: Cendekia Bitara Award (Journal Publication Category), Malam Cendekia Bitara 2014, Universiti Malaysia Pahang Title: Comparison of Novozyme 435 and Purolite D5081 as Heterogeneous Catalysts for the Pretreatment of Used Cooking Oil for Biodiesel Production. Award: Merit Award (Journal Publication Category), Malam Cendekia Bitara 2014, Universiti Malaysia Pahang Title: Quantitative Analysis of Fatty Acids Composition in the Used Cooking Oil (UCO) by Gas Chromatography Mass Spectrometry (GC-MS). Award: Anugerah Pengajaran Cemerlang 2013 WMP Award: Merit Award (Journal Publication Category), Malam Cendekia Bitara 2013, Universiti Malaysia Pahang Title: Effect of Temperature and Solvent Concentration on the Solvent Crystallization of Palm-Based Dihydroxystearic Acid with Isopropyl Alcohol. Award: Merit Award (Kategori Penerbitan Journal), Malam Cendekia Bitara 2013, Universiti Malaysia Pahang Title: Esterification of Free Fatty Acids in Used Cooking Oil using Ion Exchange Resin as Catalysts: An Efficient Pre-Treatment Method for Biodiesel Feedstock. Award: Pemenang Pertama Title: Anugerah Pengajaran Cemerlang 2007 Award: Pingat Emas	20		UMP
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Resin as Catalysts: An Efficient Pre-Treatment Method for Biodiesel Feedstock. Award: Pemenang Pertama Title: Anugerah Pengajaran Cemerlang 2007 Award: Pingat Emas	26	Universiti Malaysia Pahang	UMP
Award: Pemenang Pertama Title: Anugerah Pengajaran Cemerlang 2007 Award: Pingat Emas UMP	20		Sivii
Title: Anugerah Pengajaran Cemerlang 2007 Award: Pingat Emas	-		
Award: Pingat Emas	27		UMP
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No.	Research/Academic Exhibitions	Level	Date/Year	Awards		
Intern	national Exhibition					
1	Event: British Invention Show (BIS) 2018, UK Title: A Technology for Efficient Extraction of Rare Earth Metals Using Synergised Extractant Immobilized Resin (SEIR) List of Inventors: Sumaiya Zainal Abidin, Nur Nadiatul Hidayah Shaikh Rohmat	International	24/10/18 – 27/10/18	Obelisk Award (The World Invention Award)		
2	Event: British Invention Show (BIS) 2018, UK Title: A Technology for Efficient Extraction of Rare Earth Metals Using Synergised Extractant Immobilized Resin (SEIR) List of Inventors: Sumaiya Zainal Abidin, Nur Nadiatul Hidayah Shaikh Rohmat	International	24/10/18 – 27/10/18	Diamond Award - International Invention of the Year (Industrial Category)		
3	Event: British Invention Show (BIS) 2018, UK Title: A Technology for Efficient Extraction of Rare Earth Metals Using Synergised Extractant Immobilized Resin (SEIR) List of Inventors: Sumaiya Zainal Abidin, Nur Nadiatul Hidayah Shaikh Rohmat	International	24/10/18 – 27/10/18	Gold Medal (Industrial Category)		
4	Event: 29 th International Invention, Innovation & Technology Exhibition 2018 (ITEX 2018), Malaysia Title: Extraction of Rare Earth Element Using Synergist Extractant Immobilized Resin (SEIR) List of Inventors: Sumaiya Zainal Abidin, Nur Nadiatul Hidayah Shaikh Rohmat	International	10/05/18 – 13/05/18	Gold Medal		
5	Event: Seoul International Invention Fair (SIIF 2016), South Korea Title: Sulphonated Hypercrosslinked Exchange Resin (SHER) as Catalyst. List of Inventors: Nurul Asmawati Roslan, Norhayati Abdullah, Sumaiya Zainal Abidin	International	1/12/16 – 4/12/16	Silver Medal		
6	Event: 27 th International Invention, Innovation & Technology Exhibition 2016 (ITEX 2016), Malaysia Title: Sulphonated Hypercrosslinked Exchange Resin (SHER) as Catalyst in Reaction Processes. List of Inventors: Nurul Asmawati Roslan, Norhayati Abdullah, Sumaiya Zainal Abidin	International	12/05/16 – 14/05/16	Gold Medal		
7	Event: Seoul International Invention Fair (SIIF 2008), South Korea Title: Acousto Cyclo Reactor Scheme (ACORIS) for Biodiesel Production from Waste Cooking Oil. List of Inventors: Rosli Mohd Yunus, Zulkifly Jemaat, Ruzinah Isha, Sumaiya Zainal Abidin Ruwaida Abdul Rasid	International	11/12/08 – 15/12/08	Gold Medal		
National Exhibition						
1	Event: Persidangan dan Ekspo Ciptaan Institusi Pengajian Tinggi Antarabangsa (PECIPTA 22) Title: Intensified Aluminum Dross Recycling System for Alumina Production List of Inventors: Sumaiya Zainal Abidin, Nurul Asmawati Roslan, Noor Intan Shafinas Muhammad, Rosli Mohd Yunus	National	01/11/22 – 03/11/22	Gold Medal		
2	Event: Kimia Invensi dan Inovasi Malaysia (Kl ₂ M 2022) Title: Deciphering the Imperative Role of Ruthenium in Enhancing the Performance of Ni/Nd ₂ O ₃ .Gd ₂ O ₃ in Glycerol Dry Reforming List of Inventors: Sumaiya Zainal Abidin, William Mah Wey Lian	National	25/05/22	Silver Medal		
3	Event: Kimia Invensi dan Inovasi Malaysia (KI ₂ M 2022)	National	25/05/22	Silver Medal		
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No.	Research/Academic Exhibitions	Level	Date/Year	Awards
	Title: Bioengineered Zinc Oxide Nanoparticle (ZONOMAT) using Pineapple Waste Extract as Antibacterial Material List of Inventors: Jun Haslinda Shariffuddin, Sumaiya Zainal Abidin, Nur Aqilah Mohd Razali			
4	Event: Malaysian Technology Exposition (MTE 2007) Title: Acousto Cyclo Reactor Scheme (Acoris) for Biodiesel Production from Waste Cooking Oil List of Inventors: Rosli Mohd Yunus, Ruzinah Isha, Sumaiya Zainal Abidin, Ruwaida Abdul Rasid, Hairul Hisham Ismail, Mohd Hafiz Abd Latif	National	29/03/07 – 31/03/07	Silver Medal
Interi	nal Exhibition			
1	Event: Creation, Innovation, Technology & Research Exposition 2023 (CITREX 2023), UMP Title: Innovative Technology For Sustainable Production Of Alumina From Aluminium Dross: An Optimization Study List of Inventors: Mohamad Jamil Arif Bin Mansor, Assoc. Prof. Ts. Dr. Sumaiya Binti Zainal Abidin, Dr. Noor Intan Shafinas Binti Muhammad, Dr. Shanmuga Suntharam	Internal (UMP)	13/03/23- 14/03/23	Gold
	Title: Optimization of Syngas via Methane Bi- Reforming Using Promoted Cu/MnO2 Catalyst. List of Inventors: Irna Haslina Ibrahim, Sumaiya Zainal Abidin, Nuremirah Syafiqah Suhaimi, Nor Shafiqah Mohd Nasir, Siti Nor Amira Rosli	Internal (UMP)	13/03/23- 14/03/23	Silver
1	Event: Creation, Innovation, Technology & Research Exposition 2021 (CITREX 2021), UMP Title: Recovery of Alumina from Hazardous Aluminum Dross using AD-TRAC System List of Inventors: Sumaiya Zainal Abidin,Herma Dina Setiabudi, Nurul Asmawati Roslan	Internal (UMP)	07/04/2021	Silver Medal
2	Event: Creation, Innovation, Technology & Research Exposition 2020 (CITREX 2020), UMP Title: Integrated Technological Solution for Aluminum Dross Valorisation & Recycling: A Zero Waste Concept List of Inventors: Sumaiya Zainal Abidin, Herma Dina Setiabudi, Nurul Asmawati Roslan	Internal (UMP)	12/02/20 – 13/02/20	Silver Medal
3	Event: Creation, Innovation, Technology & Research Exposition 2020 (CITREX 2020), UMP Title: EFW: Utilization of Fish Waste Produce Biodiesel List of Inventors: Muhammad Iqmal Muhammad, Sharifah Amanda Syed Othman, Nur Mar Atull Afifah Amzah, Sumaiya Zainal Abidin, Ruwaida Abdul Rasid, Aainaa Izyan Nafsun	Internal (UMP)	02/02/20 – 03/02/20	Silver Medal
4	Event: Creation, Innovation, Technology & Research Exposition 2018 (CITREX 2018), UMP Title: Extraction of Rare Earth Element Using Synergist Extractant Immobilized Resin (SEIR) List of Inventors: Sumaiya Zainal Abidin, Nur Nadiatul Hidayah Shaikh Rohmat	Internal (UMP)	07/02/18 – 08/02/18	Special Award (Green Technology Award)
5	Event: Creation, Innovation, Technology & Research Exposition 2018 (CITREX 2018), UMP Title: Extraction of Rare Earth Element using Synergist Extractant Immobilized Resin (SEIR) List of Inventors: Sumaiya Zainal Abidin, Nur Nadiatul Hidayah Shaikh Rohmat	Internal (UMP)	07/02/18 – 08/02/18	Gold Medal
6	Event: Creation, Innovation, Technology & Research Exposition 2018 (CITREX 2018), UMP Title: Development of Thermal Energy Storage Material using PCM Derived from Waste Materials List of Inventors: Mohamad Asyren Mat Riffin, Mazaleeia Azman, Siti Amirah Abdul Ghani, Saidatul Shima Jamari, Sumaiya Zainal Abidin	Internal (UMP)	07/02/18 – 08/02/18	Silver Medal
7	Event: Creation, Innovation, Technology & Research Exposition 2017 (CITREX 2017), UMP	Internal (UMP)	15/03/17 – 16/03/17	Silver Medal

No.	Research/Academic Exhibitions	Level	Date/Year	Awards
	Title: Adsorption of Dysprosium (Dy) using Extractant Immobilized Resin List of Inventors: Tang Siew Kee, Sumaiya Zainal Abidin, Nur Nadiatul Hidayah Shaikh Rohmat			
8	Event: Creation, Innovation, Technology & Research Exposition 2017 (CITREX 2017), UMP Title: Studies on the Adsorption Behaviour of Dysprosium using Silica Supported Ionic Liquid List of Inventors: Muhammad Syiham b. Ab. Malek, Sumaiya Zainal Abidin, Nur Nadiatul Hidayah Shaikh Rohmat	Internal (UMP)	15/03/17 – 16/03/17	Silver Medal
9	Event: Creation, Innovation, Technology & Research Exposition 2016 (CITREX 2016), UMP Title: Sulphonated Hypercrosslinked Exchange Resin (SHER) as Catalyst in Reaction Processes List of Inventors: Nurul Asmawati Roslan, Norhayati Abdullah, Sumaiya Zainal Abidin	Internal (UMP)	07/03/16 – 08/03/16	Gold medal
10	Event: Creation, Innovation, Technology & Research Exposition 2016 (CITREX 2016), UMP Title: Esterification of Free Fatty Acids (FFA) in Highly Acidified Oil using Ion Exchange Resin as Catalysts List of Inventors: Siti Amirah Abdul Ghani, Sumaiya Zainal Abidin, Nursofia Mohd Yunus, Nurul Asmawati Roslan	Internal (UMP)	07/03/16 – 08/03/16	Gold Medal
11	Event: Innovation, Technology & Research Exposition 2016 (CITREX 2016), UMP Title: Halal V-Capsule List of Inventors: Fatmawati Adam, Mohd Noor b. Nawi, Nur Syuhada' Asmar, Joharizal Johari, Ruwaida Abdul Rasid, Sumaiya Zainal Abidin, Farhan Mohd Said, Shabirah Ezan	Internal (UMP)	07/03/16 – 08/03/16	Bronze Medal
12	Event: International Festival Innovation on Green Technology (i-FINOG 2016) Title: Esterification of Free Fatty Acids (FFA) in Highly Acidified Oil using Ion Exchange Resin as Catalysts List of Inventors: Siti Amirah Abdul Ghani, Sumaiya Zainal Abidin	Internal (UMP)	15/04/16 – 17/04/16	Silver Medal
13	Event: Creation, Innovation, Technology & Research Exposition 2015 (CITREX 2015), UMP Title: Novel Vegetarian Drug Deliver Carrier List of Inventors: Fatmawati Adam, Mohd Noor b. Nawi, Nur Syuhada' Asmar, Joharizal Johari, Ruwaida Abdul Rasid, Sumaiya Zainal Abidin, Farhan Mohd Said, Siti Hana Abu Bakar	Internal (UMP)	09/03/15 – 10/03/15	Gold Medal
14	Event: Creation, Innovation, Technology & Research Exposition 2015 (CITREX 2015), UMP Title: Syngas Production from Carbon Dioxide (CO ₂) Dry Reforming of Glycerol using Nickel Based Catalyst Supported on Oxide List of Inventors: Sumaiya Zainal Abidin, Jolius Gimbun, Cheng Chin Kui, Nursofia Mohd Yunus, Norazimah Harun, Nur Nabillah Mohd Arif	Internal (UMP)	09/03/15 – 10/03/15	Silver Medal
15	Event: Creation, Innovation, Technology & Research Exposition 2015 (CITREX 2015), UMP Title: Carbon Dioxide (CO ₂) Dry Reforming of Glycerol for Hydrogen Production using Ni/La ₂ O ₃ And CO/La ₂ O ₃ List of Inventors: Nursofia Mohd Yunus, Sumaiya Zainal Abidin, Norazimah Harun, Nur Nabillah Mohd Arif	Internal (UMP)	09/03/15 – 10/03/15	Silver Medal

No.	Committee Member	Level	Date/Year	Post / Appointment
1	Chartered Engineer (Reg. No: 660283) Institution of Chemical Engineers (IChemE), UK	International	2019- current	Chartered Engineer
2	Associate Member (Reg. No: 100151587) Institution of Chemical Engineers (IChemE). UK	International	2018 - current	Member
3	Professional Technologist (Reg. No: PT18070192) Malaysian Board of Technologists (MBOT)	National	2018 - current	Professional Technologist
4	Graduate Technologist (Reg. No: GT18075439) Malaysian Board of Technologists (MBOT)	National	2018 - current	Member
5	Graduate Member (Reg. No. GE44560) Board of Engineer Malaysia	National	2005 - current	Member
6	Affiliate Member (Reg. No. 0064378) Energy Institute (EI), UK	International	2015 - 2018	Member

JOURNAL EDITOR APPOINTMENT

No.	Editorial	Туре	Date/Year
1	Publication: AIP Conference Proceeding (AIPCP) Link: https://doi.org/10.1063/12.0011569	Guest Editor	2021
2	Publication: Chemical Engineering and Technology (Wiley) Link: https://onlinelibrary.wiley.com/toc/15214125/2022/45/8	Guest Editor	2021
3	Publication: Materials Today: Proceeding (Elsevier) Link: https://www.sciencedirect.com/journal/materials-today-proceedings/vol/57/part/P3	Managing Guest Editor	2021
4	Publication: Chemical Engineering Research and Design (Elsevier) Link: https://www.sciencedirect.com/journal/chemical-engineering-research-and-design/special-issue/10GXCFJ1FWX	Managing Guest Editor	2021
5	Publication: International Journal of Hydrogen Energy (Elsevier) Link: https://www.sciencedirect.com/journal/international-journal-of-hydrogen-energy/vol/46/issue/60	Guest Editor	2020
6	Publication: IOP Conference Series: Materials Science and Engineering Link: https://iopscience.iop.org/issue/1757-899X/991/1	Guest Editor	2020
7	Publication: SN Applied Sciences Topical Collection: Current Trends in Chemical Engineering: Food, Water & Energy (Springer) Link: https://www.springer.com/journal/42452/updates/17272660	Guest Editor	2019
8	Publication: Comptes Rendus Chimie (Elsevier) Link: https://www.sciencedirect.com/journal/comptes-rendus-chimie/vol/22/issue/11	Guest Editor	2019

CERTIFIED ASSESSOR

No	Educator Certification	Category
1	Certified MQA Assessor	Technical Professional
2	Certified ETAC Assessor	Technical Professional

ACCREDITATION PANEL APPOINTMENT

Appointment	Appointing Bodies	Date	Role
Appointment as Accreditation Panel for Diploma in Chemical Engineering, UTMSPACE, Kuala Lumpur	Engineering Technology Accreditation Council, Board of Engineers, Malaysia	31 July 2023 - 3 Aug 2023	Panel

MBOT – Penilai Dalaman Sarjana Muda Teknologi Kimpalan dengan Kepujian (BVW) di Fakulti Teknologi Kejuruteraan Mekanikal dan Automotif (FTKMA)	UMP	July 2023	Panel
Appointment as Accreditation Panel for Bachelor of Chemical Engineering Technology (Industrial Biotechnology) with Honours, Universiti Malaysia Perlis (UNIMAP)	Engineering Technology Accreditation Council, Board of Engineers, Malaysia	6-8 April 2021	Panel
Appointment as Internal Auditor for New Program (BEng Tech Mech Rekabentuk dan Analisis) for MBOT Accreditation	UMP	13 Oct 2020	Panel

INTERNATIONAL APPOINTMENT

No.	Descriptions	Level
1	Description: Visiting Professor for Industrial University of Ho Chi Minh City, Viet Nam Date: 2 Jan 2022 – current	International
2	Description: China-ASEAN Scholar Program Date: 30 August 2022	International
3	Description: Virtual Visiting Professor Program - PSU Open Mobility, Prince of Songkla University Date: 4 Nov 2021 & 5 April 2023	International
4	Description: China-ASEAN Scholar Program Date: 26 Oct 2020 – 29 Oct 2020	International

KEYNOTE/INVITED SPEAKERS

No.	Туре	Program	Date/Year
1	Guest Lecturer	Pengajaran Kolaboratif Kod Kursus CHE544 Separation Processes, Pengajian Kejuruteraan Kimia, Kolej Pengajian Kejuruteraan, UiTM Saha Alam	25/01/23
2	Invited Speaker	FCE Seminar – Tips and Tricks for Journal Publications - Part 1: Manuscript Publication, , Industrial University of Ho Chi Minh City, Viet Nam	06/12/22
3	Invited Speaker	FCE Seminar – Tips and Tricks for Journal Publications - Part 1: Manuscript Publication, , Industrial University of Ho Chi Minh City, Viet Nam	06/12/22
4	Invited Speaker	FCE Seminar – Research Collaboration Strategies between IUH, Viet Nam and UMP, Malaysia	28/11/22
5	Invited Speaker	FCE Workshop – Advanced Catalyst and Materials, Industrial University of Ho Chi Minh City, Viet Nam	24/11/22
6	Invited Speaker	International Symposium of Science and Techology (UMP – HITS)	28/07/22
7	Invited Speaker	Penceramah Workshop "How to Turn Your FYP Project into Journal Manuscript	23/06/22
8	Invited Speaker	International Conference on Chemistry and Application, Industrial University of Ho Chi Minh City, Viet Nam	14/07/22 – 15/07/22
9	Invited Speaker	Penceramah "Sharing Session – Managing FRGS Grant"	10 Dec 2021
10	Keynote Speaker	1st International Conference on Pollution Prevention and Clean Technologies (ICPPCT 2021) Taiwan-India Collaboration Program	6/12/21 – 7/12/21
11	Invited Speaker	Penceramah Bengkel "Half Day Technical Workshop on Gas Chromatography" di FTKKP	19/08/21
12	Invited Speaker	BPC-UMP Collaboration – Invitation as Academic Speaker to BASF PETRONAS Chemicals Sdn Bhd	09/07/21
13	Invited Speaker	2 nd Technical Forum – Problem of Environment and How to Utilise the Hazardous Waste, Cenviro Sdn .Bhd.	17/09/19
14	Invited Speaker	2019 International Academic Forum on the High-efficiency Utilization of Coal and Green Chemical Engineering & Conference on Advancements in the Coal Chemical and Energy Materials Industries, NingXia University, China	23/08/19 – 26/08/19

ADMINISTRATION APPOINTMENT

Dean, Faculty of Chemical and Process Engineering Technology (FTKRP) 1/9/23 – 31/8/25 (FTKRP) 1/9/24 – 31/10/24 2/9/24 – 3	No.	Post	Duration			
Feilo Penyelidik Utama (FLUID Centre)	Rota	Rotational Post				
Setua Taskforce Peralatan Makmal Penyelidikan (Pusat Penyelidikan Bendalir dan Proses Tormaju) Appointment as Deputy Dean of Postgraduate and Research, Faculty of Chemical and Natural Resources Engineering in Faculty of Chemical and Process Engineering Technology, UMP Research Fellow - Pusat Penyelidikan Bendalir dan Proses Termaju (FLUIC Centre) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Destroaduate Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Postgraduate Research Fellow - Centre of Postgraduate Research (NCON-PEG 2022), Institute of Postgraduate Studies 11/10/22 Research (NCON-PEG 2022), Institute of Postgraduate Studies 11/10/22 Publication Committee, 6º International Conference of Chemical Engineering & Industrial Biotechnology (ICCEIB 2022), Faculty of Chemical Engineering & Industrial Biotechnology (ICCEIB 2022), Faculty of Chemical Engineering & Industrial Research Fellow (CARIFF) Research (NCON-PEG 2022), Institute of Postgraduate Research (NCON-PEG 2022), Postuly of Chemical Engineering and Biotechnology (2020 (ICCEIB 2020)), Faculty of Chemical and Natural Resources (Excellence for Advanced Research in Flu	1		1/9/23 – 31/8/25			
Bendalir dan Proses Termaju) Appointment as Deputy Dean of Postgraduate and Research, Faculty of Chemical and Natural Resources Engineering / Faculty of Chemical and Process Engineering / Faculty of Chemical Engineering Congress (ESChE 2023) / Faculty of Chemical Engineer	2	Felo Penyelidik Utama (FLUID Centre)	1/12/22 – 30/11/24			
Appointment as Deputy Dean of Postgraduate and Research, Faculty of Chemical and Natural Resources Engineering / Faculty of Chemical and Postago (PLDID Centre) Research Fellow - Postago Person (PLDID Centre) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (Excellence for Advanced Flowers (ESC)) Research Fellow - Centre of Excellence for Research in Fluid Flow (ESC) Research Flower - Centre of Excellence for Advanced Provesses (FLUID), UMP Co-chairman, International Conference on Modern Transport and Frontier Materials (TFM 2022), College of Engineering, UMP Head of Logistic and Event Management, Energy Sustainability & Chemical Engineering Technology, UMP Co-chairman, International Conference on Chemical Engineering and Biotechnology 2020 (ICC	3		1/11/22 – 31/10/24			
Research Fellow - Pusat Penyelidikan Bendalir dan Proses Termaju (FLIDI Centre) 1/1/2021 - 31/12/2022	4	Appointment as Deputy Dean of Postgraduate and Research, Faculty of Chemical and Natural Resources Engineering / Faculty of Chemical and	12/01/19 – 10/02/20			
6 Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) 1/1/2019 - 31/12/2020 7 Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) 21/12/16 - 31/12/18 8 Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) 21/12/14 - 20/12/16 9 Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) 20/12/12 - 20/12/14 4 Chairman, 2 nd International Symposium of Reaction Engineering. Catalysis & Sustainable Energy (RECaSE 2023) 10/10/23 2 Head of Publication Committee, 6 nd Fenrey Sustainability & Chemical Engineering Congress (ESChE 2023) 28/08/23 - 30/08/23 3 Head of Publication Committee, 6 nd Fairnay Sustainability & Chemical Engineering Congress (ESChE 2023) 11/10/22 4 Publication Committee, 6 nd National Conference of Chemical Engineering & Industrial Biotechnology (ICCEIB 2022), Faculty of Chemical Engineering & Industrial Biotechnology (ICCEIB 2022), Faculty of Engineering Engineering Engineering Lipida (Incelled Engineering Engineering Lipida (Incelled Engineering Engineering Engineering Lipida (Incelled Engineering Engineeri	5	Research Fellow -Pusat Penyelidikan Bendalir dan Proses Termaju	1/1/2021 - 31/12/2022			
Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Flow (CARIFF) Flow (CARIFF) Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research (Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research (Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research (Fellow - Centre of Excellence for Advance Research (Fellow - Centre of Excellence for Advanced Processes (Fellow (CARIFF) (Fellow - Center of Excellence for Advanced Research in Fluid Flow (CARIFF) Resources Engineering Technology, UMP Read of Logistic and Event Management, Energy Sustainabilty & Chemical Engineering and Biotechnology 2020 (ICCEIB 2020), Faculty of Chemical Engineering and Biotechnology 2020 (ICCEIB 2020), Faculty of Chemical Engineering and Biotechnology 2020 (ICCEIB 2020), Faculty of Chemical Engineering Advanced Research in Fluid Flow (CARIFF) Read of Logistic and Event Management, International Conference of Fluids and Chemical Engineering Engineering Explosion (Cariffer) Publicity and Protococy, International Conference of Fluids and Chemical Engineering Fluids Che 2017), Centre of Ex	6	Research Fellow - Centre of Excellence for Advance Research in Fluid	1/1/2019 - 31/12/2020			
Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Research Fellow - Centre of Excellence for Advance Research in Fluid Flow (CARIFF) Academic Conference 1 Chairman, 2 nd International Symposium of Reaction Engineering, Catalysis & Sustainable Energy (RECaSE 2023) 2 Head of Publication Committee, 6 nd National Conference for Postgraduate Engineering Congress (ESChE 2023) 3 Head of Technical Committee, 6 nd National Conference for Postgraduate Research (NCON-PGR 2022), Institute of Posgraduate Studies Publication Committee, 6 nd National Conference of Chemical Engineering & Industrial Biotechnology (ICCEIB 2022), Faculty of Chemical and Process Engineering Technology, UMP Tressurer, International Conference on Modern Transport and Frontier Materials (TFM 2022), College of Engineering, UMP Head of Logistic and Event Management, 2 nd Energy Sustainability & Chemical Engineering Congress (ESChE 2021), Faculty of Chemical and Advanced Provesses (FLUID), UMP Co-chairman, International Symposium of Reaction Engineering and Biotechnology 2020 (ICCEIB 2020), Faculty of Chemical and Natural Resources Engineering Technology, UMP Head of Logistic and Event Management, Energy Sustainability & Chemical Engineering Congress (ESChE 2019), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Head of Logistic and Event Management, International Universities Conferenceon Engineering & Technology (MUCET 2019) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2017), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2015), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Publicity and Protocol, International Conference	7	Research Fellow - Centre of Excellence for Advance Research in Fluid	21/12/16 - 31/12/18			
Research Fellow - Centre of Excellence for Advance Research in Fluid 20/12/12 – 20/12/14 Academic Conference 1 Chairman, 2 nd International Symposium of Reaction Engineering, Catalysis & Sustainable Energy (RECaSE 2023) 28/08/23 – 30/08/23 Head of Publication Committee, 9 th International Conference for Postgraduate Research (NCON-PGR 2022), Institute of Postgraduate Studies 11/10/22 Publication Committee, 10 International Conference of Chemical Engineering & Industrial Biotechnology (ICCEIB 2022), Faculty of Chemical and Process Engineering Technology, UMP 15/08/22 – 16/08/22 – 1	8	Research Fellow - Centre of Excellence for Advance Research in Fluid	21/12/14 - 20/12/16			
Academic Conference Chairman, 2nd International Symposium of Reaction Engineering, Catalysis & Sustainable Energy (RECaSE 2023)	9	Research Fellow - Centre of Excellence for Advance Research in Fluid	20/12/12 – 20/12/14			
Latalysis & Sustainable Energy (RECaSE 2023) Head of Publication Committee, 3rd Energy Sustainabilty & Chemical Engineering Congress (ESChE 2023) Head of Technical Committee, 6th National Conference for Postgraduate Research (NCON-PGR 2022), Institute of Postgraduate Studies Publication Committee, 6th International Conference of Chemical Engineering & Industrial Biotechnology (ICCEIB 2022), Faculty of Chemical and Process Engineering Technology, UMP Treasurer, International Conference on Modern Transport and Frontier Materials (TFM 2022), College of Engineering, UMP Head of Logistic and Event Management, 2th Energy Sustainabilty & Chemical Engineering Congress (ESChE 2021), Centre of Fluid Flow and Advanced Processes (ESChE 2021), Centre of Fluid Flow and Advanced Processes (ESChE 2021), Ecutive of Co-chairman, International Symposium of Reaction Engineering, Catalysis & Sustainable Energy (RECaSE 2021), Faculty of Chemical and Process Engineering Technology, UMP Co-chairman, International Conference on Chemical Engineering and Biotechnology 2020 (ICCEIB 2020), Faculty of Chemical and Natural Resources Engineering Congress (ESChE 2019), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Journal & Proceeding Publication, Malaysian Technical Universities Conferenceon Engineering & Technology (MUCET 2019) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2017), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2015), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Publicity and Protocol, International Conference on Chemical Engineering, and Biotechnology 2013 (ICCEIB 2013), Faculty of Chemical and Natural Resources Engineering, UMP Other responsibilities Committee, Occupational Health, Safety and Environment Committee FTKKP Coordinator, Undergraduate Research Project, Faculty of Chemica	Acad					
2 Head of Publication Committee, 3rd Energy Sustainabilty & Chemical Engineering Congress (ESChE 2023) 3 Head of Technical Committee, 6rd National Conference for Postgraduate Research (NCON-PGR 2022), Institute of Postgraduate Studies Publication Committee, 6rd National Conference of Chemical Engineering & Industrial Biotechnology (ICCEIB 2022), Faculty of Chemical and Process Engineering Technology, UMP 5 Treasurer, International Conference on Modern Transport and Frontier Materials (TFM 2022), College of Engineering, UMP 6 Head of Logistic and Event Management, 2rd Energy Sustainabilty & 3/11/21 – 5/11/21 and Advanced Provcesses (FLUID), UMP 7 Co-chairman, International Symposium of Reaction Engineering, Chairman, International Symposium of Reaction Engineering and Biotechnology 2020 (ICCEIB 2020), Faculty of Chemical and Process Engineering, UMP 8 Co-chairman, International Conference on Chemical Engineering and Biotechnology 2020 (ICCEIB 2020), Faculty of Chemical and Natural Resources Engineering, UMP 9 Chemical Engineering Congress (ESChE 2019), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) 10 Journal & Proceeding Publication, Malaysian Technical Universities Conferenceon Engineering & Technology (MUCET 2019) 11 Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2017), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) 11 Head of Logistic and Event Management, International Conference of Excellence for Advanced Research in Fluid Flow (CARIFF) 12 Publicity and Protocol, International Conference on Chemical Engineering, UMP 13 Publicity and Protocol, International Conference on Chemical Engineering, UMP 14 Coordinator, Research and Postgraduate Studies Committee, College of Engineering, UMP 15 Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP 16 Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP 16 Coordinator	1		10/10/23			
Head of Technical Committee, 6th National Conference for Postgraduate Research (NCON-PGR 2022), Institute of Postgraduate Studies Publication Committee, 6th International Conference of Chemical Engineering & Industrial Biotechnology (ICCEIB 2022), Faculty of Chemical and Process Engineering Technology, UMP 15/08/22 – 16/08/22 15/08/22 – 16/	2	Head of Publication Committee, 3rd Energy Sustainabilty & Chemical	28/08/23 - 30/08/23			
4 Engineering & Industrial Biotechnology (ICCEIB 2022), Faculty of Chemical and Process Engineering Technology, UMP 5 Treasurer, International Conference on Modern Transport and Frontier Materials (TFM 2022), College of Engineering, UMP 6 Chemical Engineering Congress (ESChE 2021), Centre of Fluid Flow and Advanced Processes (ELUID), UMP Co-chairman, International Symposium of Reaction Engineering, Catalysis & Sustainable Energy (RECaSE 2021), Faculty of Chemical and Process Engineering Technology, UMP Co-chairman, International Symposium of Reaction Engineering, Catalysis & Sustainable Energy (RECaSE 2021), Faculty of Chemical and Process Engineering Technology, UMP Co-chairman, International Conference on Chemical Engineering and Biotechnology 2020 (ICCEIB 2020), Faculty of Chemical and Natural Resources Engineering UMP Head of Logistic and Event Management, Energy Sustainabilty & Chemical Engineering Congress (ESChE 2019), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Journal & Proceeding Publication, Malaysian Technical Universities Conferenceon Engineering (FluidsChE 2017), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2017), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Publicity and Protocol, International Conference on Chemical Engineering and Biotechnology 2013 (ICCEIB 2013), Faculty of 28/08/13 − 29/08/13 Chemical and Natural Resources Engineering, UMP Other responsibilities 1 Coordinator, Research and Postgraduate Studies Committee, College of Engineering, UMP Other responsibilities 2 Committee, Posgraduate Studies Committee KKEJ 01/01/12 − 01/10/22	3	Head of Technical Committee, 6 th National Conference for Postgraduate	11/10/22			
Treasurer, International Conference on Modern Transport and Frontier Materials (TFM 2022), College of Engineering, UMP Head of Logistic and Event Management, 2nd Energy Sustainabilty & Chemical Engineering Congress (ESChE 2021), Centre of Fluid Flow and Advanced Provcesses (FLUID), UMP Co-chairman, International Symposium of Reaction Engineering, Catalysis & Sustainable Energy (RECaSE 2021), Faculty of Chemical and Process Engineering Technology, UMP Co-chairman, International Conference on Chemical Engineering and Biotechnology 2020 (ICCEIB 2020), Faculty of Chemical and Natural Resources Engineering, UMP Head of Logistic and Event Management, Energy Sustainabilty & Chemical Engineering Congress (ESChE 2019), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Journal & Proceeding Publication, Malaysian Technical Universities Conferenceon Engineering & Technology (MUCET 2019) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2017), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2017), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2015), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Publicity and Protocol, International Conference on Chemical Sengineering and Biotechnology 2013 (ICCEIB 2013), Faculty of 28/08/13 – 29/08/13 Coordinator, Research and Postgraduate Studies Committee, College 01/10/21 – 01/10/22 Committee, Posgraduate Studies Committee, College 01/10/22 – 01/10/22 Committee, Occupational Health, Safety and Environment Committee FTKKP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP	4	Publication Committee, 6 th International Conference of Chemical Engineering & Industrial Biotechnology (ICCEIB 2022), Faculty of	15/08/22 – 16/08/22			
Head of Logistic and Event Management, 2nd Energy Sustainabilty & Chemical Engineering Congress (ESChE 2021), Centre of Fluid Flow and Advanced Provcesses (FLUID), UMP Co-chairman, International Symposium of Reaction Engineering, Catalysis & Sustainable Energy (RECaSE 2021), Faculty of Chemical and Process Engineering Technology, UMP Co-chairman, International Conference on Chemical Engineering and Biotechnology 2020 (ICCEIB 2020), Faculty of Chemical and Natural Resources Engineering, UMP Head of Logistic and Event Management, Energy Sustainabilty & Chemical Engineering, UMP Head of Logistic and Event Management, Energy Sustainabilty & Ti/07/19 – 20/07/19 for Advanced Research in Fluid Flow (CARIFF) Journal & Proceeding Publication, Malaysian Technical Universities Conference on Engineering & Technology (MUCET 2019) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2017), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2015), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Publicity and Protocol, International Conference on Chemical Engineering and Biotechnology 2013 (ICCEIB 2013), Faculty of 28/08/13 – 29/08/13 Chemical and Natural Resources Engineering, UMP Other responsibilities Coordinator, Research and Postgraduate Studies Committee, College of Engineering, UMP Committee, Occupational Health, Safety and Environment Committee FTKKP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP	5	Treasurer, International Conference on Modern Transport and Frontier	26/07/22 – 27/07/22			
Co-chairman, International Symposium of Reaction Engineering, Catalysis & Sustainable Energy (RECaSE 2021), Faculty of Chemical and Process Engineering Technology, UMP Co-chairman, International Conference on Chemical Engineering and Biotechnology 2020 (ICCEIB 2020), Faculty of Chemical and Natural Resources Engineering, UMP Head of Logistic and Event Management, Energy Sustainability & Chemical Engineering Congress (ESChE 2019), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Journal & Proceeding Publication, Malaysian Technical Universities Conferenceon Engineering & Technology (MUCET 2019) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2017), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2015), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Publicity and Protocol, International Conference on Chemical Engineering and Biotechnology 2013 (ICCEIB 2013), Faculty of Chemical and Natural Resources Engineering, UMP Other responsibilities 1 Coordinator, Research and Postgraduate Studies Committee, College of Engineering, UMP Other responsibilities 1 Committee, Posgraduate Studies Committee KKEJ 1 Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP 5 Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP	6	Head of Logistic and Event Management, 2 nd Energy Sustainabilty & Chemical Engineering Congress (ESChE 2021), Centre of Fluid Flow	3/11/21 – 5/11/21			
Co-chairman, International Conference on Chemical Engineering and Biotechnology 2020 (ICCEIB 2020), Faculty of Chemical and Natural Resources Engineering, UMP Head of Logistic and Event Management, Energy Sustainabilty & Chemical Engineering Congress (ESChE 2019), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Journal & Proceeding Publication, Malaysian Technical Universities Conferenceon Engineering & Technology (MUCET 2019) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2017), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Head of Logistic and Event Management, International Conference of Excellence for Advanced Research in Fluid Flow (CARIFF) Head of Logistic and Event Management, International Conference of Excellence for Advanced Research in Fluid Flow (CARIFF) Publicity and Chemical Engineering (FluidsChE 2015), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Publicity and Protocol, International Conference on Chemical Engineering and Biotechnology 2013 (ICCEIB 2013), Faculty of Chemical and Natural Resources Engineering, UMP Other responsibilities Coordinator, Research and Postgraduate Studies Committee, College of Engineering, UMP Committee, Posgraduate Studies Committee KKEJ Committee, Occupational Health, Safety and Environment Committee FTKKP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP	7	Co-chairman, International Symposium of Reaction Engineering, Catalysis & Sustainable Energy (RECaSE 2021), Faculty of Chemical	06/04/21			
Head of Logistic and Event Management, Energy Sustainabilty & Chemical Engineering Congress (ESChE 2019), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) 10 Journal & Proceeding Publication, Malaysian Technical Universities Conferenceon Engineering & Technology (MUCET 2019) 11 Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2017), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) 11 Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2015), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) 12 Publicity and Protocol, International Conference on Chemical Engineering and Biotechnology 2013 (ICCEIB 2013), Faculty of Excellence for Advanced Research in Fluid Flow (CARIFF) 13 Engineering and Biotechnology 2013 (ICCEIB 2013), Faculty of Chemical and Natural Resources Engineering, UMP 14 Coordinator, Research and Postgraduate Studies Committee, College of Engineering, UMP 15 Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP 16 Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP 17/07/19 – 20/07/19 17/07/19 – 20/07/19 18/10/11 – 20/07/19 18/10/11 – 20/07/19 18/10/11 – 20/07/19 18/10/11 – 20/07/19 18/10/12 – 20/03/19	8	Co-chairman, International Conference on Chemical Engineering and Biotechnology 2020 (ICCEIB 2020), Faculty of Chemical and Natural	9/08/20 – 11/08/20			
Journal & Proceeding Publication, Malaysian Technical Universities Conferenceon Engineering & Technology (MUCET 2019) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2017), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2015), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Publicity and Protocol, International Conference on Chemical Engineering and Biotechnology 2013 (ICCEIB 2013), Faculty of Chemical and Natural Resources Engineering, UMP Other responsibilities Coordinator, Research and Postgraduate Studies Committee, College of Engineering, UMP Committee, Posgraduate Studies Committee KKEJ Committee, Occupational Health, Safety and Environment Committee FTKKP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP	9	Head of Logistic and Event Management, Energy Sustainabilty & Chemical Engineering Congress (ESChE 2019), Centre of Excellence	17/07/19 – 20/07/19			
Fluids and Chemical Engineering (FluidsChE 2017), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Head of Logistic and Event Management, International Conference of Fluids and Chemical Engineering (FluidsChE 2015), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Publicity and Protocol, International Conference on Chemical Engineering and Biotechnology 2013 (ICCEIB 2013), Faculty of Chemical and Natural Resources Engineering, UMP Other responsibilities Coordinator, Research and Postgraduate Studies Committee, College of Engineering, UMP Committee, Posgraduate Studies Committee KKEJ Committee, Occupational Health, Safety and Environment Committee FTKKP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP	10	Journal & Proceeding Publication, Malaysian Technical Universities	20/03/19			
Fluids and Chemical Engineering (FluidsChE 2015), Centre of Excellence for Advanced Research in Fluid Flow (CARIFF) Publicity and Protocol, International Conference on Chemical Engineering and Biotechnology 2013 (ICCEIB 2013), Faculty of Chemical and Natural Resources Engineering, UMP Other responsibilities Coordinator, Research and Postgraduate Studies Committee, College of Engineering, UMP Committee, Posgraduate Studies Committee KKEJ Committee, Posgraduate Studies Committee KKEJ Committee, Occupational Health, Safety and Environment Committee FTKKP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP	11	Fluids and Chemical Engineering (FluidsChE 2017), Centre of	4/04/17 -6/04/17			
Engineering and Biotechnology 2013 (ICCEIB 2013), Faculty of Chemical and Natural Resources Engineering, UMP Other responsibilities Coordinator, Research and Postgraduate Studies Committee, College of Engineering, UMP Committee, Posgraduate Studies Committee KKEJ Committee, Posgraduate Studies Committee KKEJ Committee, Occupational Health, Safety and Environment Committee FTKKP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP	12	Fluids and Chemical Engineering (FluidsChE 2015), Centre of	25/11/15 – 27/11/15			
Other responsibilities 1	13	Engineering and Biotechnology 2013 (ICCEIB 2013), Faculty of	28/08/13 – 29/08/13			
of Engineering, UMP Committee, Posgraduate Studies Committee KKEJ Committee, Occupational Health, Safety and Environment Committee FTKKP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Coordinator, Undergraduate Research Project, Faculty of Chemical and COORDINATION COORDINATION CONTROL CONTR						
Committee, Posgraduate Studies Committee KKEJ Committee, Occupational Health, Safety and Environment Committee FTKKP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and Coordinator, Undergraduate Research Project, Faculty of Chemical and COORDINATION COORDINATION CONTROL	1		01/10/21 - 01/10/22			
FTKKP Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and 01/09/15 – 31/08/17 Coordinator, Undergraduate Research Project, Faculty of Chemical and 01/04/16 31/02/18	2		01/01/22 - 01/10/22			
4 Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP Coordinator, Undergraduate Research Project, Faculty of Chemical and 01/09/15 – 31/08/17	3		18/10/19 — 17/10/21			
Coordinator, Undergraduate Research Project, Faculty of Chemical and	4	Coordinator, Undergraduate Research Project, Faculty of Chemical and	01/09/15 - 31/08/17			
	5		01/04/16 — 31/03/18			

No.	Post	Duration
6	Head of Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP	27/09/14 – 26/09/16
7	Head of Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP	27/09/12-26/09/14
8	Committee, Pemurnian Panduan Projek Sarjana Muda,UMP	01/02/07
9	Coordinator, Undergraduate Research Project, Faculty of Chemical and Natural Resources Engineering, UMP	01/06/07 – 31/-5/08
10	Committee, Dokumentasi ISO/IEC 17025 FKKSA	01/02/07
11	Kajian Strategik, Institut Tamadun dan Kajian Strategik (ITKAS), UMP	22/08/22
12	Task force Peperiksaan Khas Asas Kejuruteraan (PAKej) KKEJ	08/03/21
13	Task Force Rucric i-Bakat (Geran Penyelidikan)	25/05/21