

CURRICULUM VITAE

DR. MOHD SUFRI BIN MASTULI

Senior Lecturer

School of Chemistry and Environment
Faculty of Applied Sciences
Universiti Teknologi MARA
40450 Shah Alam
Selangor, Malaysia



Research Fellow

Centre for Functional Materials & Nanotechnology
Institute of Science
Universiti Teknologi MARA
40450 Shah Alam
Selangor, Malaysia

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Scopus Author ID: 55443271000
Researcher ID: U-9972-2019
ORCID: 0000-0002-0409-8987
Google Scholar: Mohd Sufri Mastuli

PROFESSIONAL QUALIFICATIONS

2013 – 2016



Doctor of Philosophy (Catalysis)

Department of Chemistry
Faculty of Science
Universiti Putra Malaysia
Serdang, Selangor, Malaysia

Thesis Title: Catalytic Gasification of Oil Palm Frond Biomass in Supercritical Water for Hydrogen Production using Supported and Doped Magnesium Oxide Catalysts

Main Supervisor: Prof. Dr. Taufiq-Yap Yun Hin,

Co-Supervisor: Prof. Dr. Zulkarnain Zakaria, Dr. Mohd Izham Saiman, Prof. Dr. Norlida Kamarulzaman

2008



Master of Science in Chemistry (By Coursework)

Graduated with Distinction (83.75%)
School of Chemistry and Molecular Bioscience
Faculty of Science, Medicine and Health
University of Wollongong
New South Wales, Australia

Thesis Title: Synthesis and Characterisation of Metal Cage Complexes of the Me₅tricosane Ligands

Main Supervisor: Prof. Dr. Stephen Frederick Ralph



2004 – 2007

Bachelor of Science (Hons.) Applied Chemistry

CGPA: 3.69/4.00 (Vice Chancellor's Award, Five Times Dean's List Award)
Faculty of Applied Sciences
Universiti Teknologi MARA
Shah Alam, Selangor, Malaysia

Thesis Title: Assessment of Cyanide in the *Hevea Brasiliensis* Seed Kernel

Main Supervisor: Prof. Dr. Siti Noorbaiyah Abdul Malek



2002 – 2004

Diploma in Science

CGPA: 3.51/4.00 (Four Times Dean's List Award)
Faculty of Applied Sciences
Universiti Teknologi MARA
Shah Alam, Selangor, Malaysia



2001

Sijil Pelajaran Malaysia (SPM)

1A1, 2A2, 2B3, 1B4, 1C5, 1C6, 1D7, 1E8
Sekolah Menengah Kebangsaan Pengiran Omar
Sipitang, Sabah, Malaysia



1999

Penilaian Menengah Rendah (PMR)

3A, 3B, 2C
Sekolah Menengah Kebangsaan Pengiran Omar
Sipitang, Sabah, Malaysia



1996

Ujian Penilaian Sekolar Rendah (UPSR)

1A, 2B, 1C
Sekolah Rendah Kebangsaan Melalia
Sipitang, Sabah, Malaysia

PROFESSIONAL MEMBERSHIPS

2009 - 2019	Associate Member Centre for Nanomaterials Research Institute of Science Universiti Teknologi MARA
2013 - Present	Member (M/3570/6462/13) Malaysian Institute of Chemistry
2016 - Present	Member Biomass Division, The Japan Institute of Energy
2020 - Present	Research Fellow Centre for Functional Materials and Nanotechnology Institute of Science Universiti Teknologi MARA

2021 - Present **Member (A672)**
Persatuan Sains Analisis Malaysia (ANALIS)

2022 - Present **Affiliate Member (719300)**
Royal Society of Chemistry

EDITORIAL MEMBERSHIPS

03 Sep 2021 - Present **Editorial Board Members (Chemistry)**
SET Publisher
Science Education & Technology
38 Washington Ct.
Brampton ON,
L6Y0Y2
Canada

01 Jul 2021 – 31 Jul 2023 **National Editor**
Science Letters
Universiti Teknologi MARA
40450 Shah Alam
Selangor, Malaysia

AWARDS, FELLOWSHIP & SCHOLARSHIP

2002 - 2004 Dean's List Award for Diploma (4 times)
2005 Sabah State Government Scholarship
2005 - 2007 Dean's List Award for Bachelor (5 times)
2007 UiTM Vice-Chancellor's Award for Bachelor
2008 UiTM Young Lecturer Scheme Scholarship for Master
2012 Anugerah Perkhidmatan Cemerlang UiTM (tunai RM1000 & sijil)
2013 Hadiah Skim Latihan Akademik Bumiputera (SLAB) for PhD

2013 Bronze Award in Invention, Innovation & Design Competition (IID
Johor 2013), Universiti Teknologi MARA, Co-Researcher (Structural
and Textural Characteristics of Alumina Nanoparticles Prepared
using Biopolymer as Template) (certificate)

2013 Gold Award in Invention, Innovation & Design Exposition 2013 (iidex
2013), Universiti Teknologi MARA, Co-Researcher (Morphological
and Structural Studies of TiO₂ Nanostructure) (certificate)

2013 Gold Award in Invention, Innovation & Design Exposition 2013 (iidex
2013), Universiti Teknologi MARA, Co-Researcher
(Commercialization of ZnO Nanorods and Cu and Mn Doped ZnO
Nanostructures) (certificate)

2013 Silver Award in Invention, Innovation & Design Exposition 2013 (iidex
2013), Universiti Teknologi MARA, Co-Researcher (Cr and Ni Doped
Al₂O₃ Micron and Nano Powders for Semiconductor Applications)
(certificate)

2014 Bronze Award in Invention, Innovation & Design Exposition 2014
(iidex 2014), Universiti Teknologi MARA, Principal Researcher

- (Stable MgO Nanoparticles for Catalytic and Pharmaceutical Applications) (certificate)
- 2014 Gold Award in Invention, Innovation & Design Exposition 2016 (iidex 2016), Universiti Teknologi MARA, Co-Researcher (Band Gap Tuning of $Al_{(2-x)}M_xO_3$ By Various Dopants) (certificate)
- 2016 Promoted to Senior Lecturer (DM52) at Faculty of Applied Sciences, UiTM Shah Alam
- 2016 Gold Award in Invention, Innovation & Design Exposition 2016 (iidex 2016), Universiti Teknologi MARA, Co-Researcher (Band Gap Tuning of $Al_{(2-x)}M_xO_3$ By Various Dopants) (certificate)
- 2016 Gold Award in Invention, Innovation & Design Exposition 2016 (iidex 2016), Universiti Teknologi MARA, Co-Researcher (MgO Thin Films for Metal Oxide Semiconductor Application) (certificate)
- 2017 Gold Award in Invention, Innovation & Design Exposition 2017 (iidex 2017), Universiti Teknologi MARA, Co-Researcher (A New Polycyclic Carbon Based Solid Acid Catalyst for Biodiesel Production from PFAD via Supercritical Technique) (certificate)
- 2017 Bronze Award in Invention, Innovation & Design Exposition 2017 (iidex 2017), Universiti Teknologi MARA, Principal Researcher (Palm Waste-to-Hydrogen as Renewable Energy for Fuel Cell Car) (certificate)
- 2018 Silver Award in Invention, Innovation & Design Exposition 2018 (iidex 2018), Universiti Teknologi MARA, Co-Researcher (Low-Cost Biochar Catalyst for Biodiesel Production from Waste Oils) (certificate)
- 2019 Gold Award in Research Poster Competition, at UiTM Research Fiesta (URF 2019), Co-Researcher (Different Synthesis Methods of Sulfated SnO_2 Catalysts for Biodiesel Production) (certificate)
- 2019 Silver Award in National e-Content Development Competition (e-CONDeV 2019), Universiti Teknologi MARA, Co-Researcher (MMOC entitle Introduction to Physical Chemistry) (certificate)
- 2020 Anugerah Staf Cemerlang, Fakulti Sains Gunaan, Universiti Teknologi MARA (sijil & plak)
- 2021 Juara Keseluruhan, Anugerah Kualiti Naib Canselor 2021, Universiti Teknolgi MARA (**Penulis**) (sijil)
- 2021 Juara (Fakulti), Anugerah Kualiti Naib Canselor 2021, Universiti Teknolgi MARA (**Penulis**) (sijil)
- 2021 Pemenang Bidang Tumpuan (Pengurusan & Pembangunan Staf), Anugerah Kualiti Naib Canselor 2021, Universiti Teknolgi MARA (**Penulis**) (sijil)
- 2021 Gold Award in Invention, Innovation & Design Exposition 2021 (iidex 2021), Universiti Teknologi MARA, Co-Researcher (Innovative Pulsed Laser Deposition of Novel Hf-Doped Al_2O_3 High-K Gate Dielectric Thin Films using Pre-Synthesized Target Material for Next Generation MOS Application) (certificate)

2021 Silver Award in Invention, Innovation & Design Exposition 2021 (iidx 2021), Universiti Teknologi MARA, Principal Researcher (Highly Active of Doped MgO catalysts in Supercritical Water Gasification for Renewable Hydrogen Production) (certificate)

WORKING EXPERIENCES

19 Jan 2009 – 23 Aug 2016 **Lecturer (DM45)**
Faculty of Applied Sciences
Universiti Teknologi MARA

24 Aug 2016 – Present **Senior Lecturer (DM53)**
Faculty of Applied Sciences
Universiti Teknologi MARA

LEADERSHIP EXPERIENCES

08 & 09 Dis 2010 **Ketua AJK Teknikal & Tugas-Tugas Khas**
Kursus Pengenalan untuk Pensyarah Baru FSG
Bengkel Penulisan Jurnal Berimpak Tinggi
Fakulti Sains Gunaan
Universiti Teknologi MARA

14 – 14 Dec 2010 **Leader (Technical Committee)**
Workshop on Macromolecules I
Faculty of Applied Sciences
Universiti Teknologi MARA

13 Feb 2011 **Fasilitator**
Modul 7 (Kenegaraan)
Peringkat Ijazah Sarjana Muda
Fakulti Sains Gunaan
Universiti Teknologi MARA

11 – 14 Okt 2011 **Koordinator Penasihat Pameran**
Karnival Sains & Teknologi (CARSTECH 2011)
Fakulti Sains Gunaan
Universiti Teknologi MARA

15 Okt 2011 **Fasilitator**
Modul 7 (Kenegaraan)
Peringkat Ijazah Sarjana Muda
Fakulti Sains Gunaan
Universiti Teknologi MARA

16 Okt 2011 **Fasilitator**
Modul 1 (Pembangunan Diri)
Peringkat Ijazah Sarjana Muda
Fakulti Sains Gunaan
Universiti Teknologi MARA

20 Nov 2011 **Fasilitator**

	<p>Program Finishing School Fakulti Sains Gunaan Universiti Teknologi MARA</p>
27 Nov 2011	<p>Fasilitator Modul 8 (Finishing School) Fakulti Perladangan & Agroteknologi Universiti Teknologi MARA</p>
13 – 15 Dec 2011	<p>Leader (Technical Committee) Workshop on Macromolecules II Faculty of Applied Sciences Universiti Teknologi MARA</p>
29 Nov 2010 – 01 Dis 2010	<p>Ketua Logistik International Conference on the Advancement of Materials and Nanotechnology II (ICAMN II – 2010) Prince Hotel & Residence Kuala Lumpur</p>
08 Apr 2012	<p>Fasilitator Modul 7 (Kenegaraan) Peringkat Ijazah Sarjana Muda Fakulti Sains Gunaan Universiti Teknologi MARA</p>
15 Apr 2012	<p>Fasilitator Program Finishing School Fakulti Sains Gunaan Universiti Teknologi MARA</p>
14 Sep 2012	<p>Pengarah Program Majlis SuaRaya UiTM 2012</p>
01 Feb 2013 – 31 Jan 2015	<p>Pengerusi Jawatankuasa Pembangunan Pelajar Fakulti Sains Gunaan Universiti Teknologi MARA</p>
01 Feb 2013 – 31 Jan 2015	<p>Pengerusi Jawatankuasa Penyelarasan Peperiksaan Akhir Fakulti Sains Gunaan Universiti Teknologi MARA</p>
01 Feb 2013 – Dis 2013	<p>Penasihat Persatuan Ijazah Sarjana Muda Sains (Kep) Kimia (CFC) Fakulti Sains Gunaan Universiti Teknologi MARA</p>
4 – 6 Mac 2013	<p>Ketua JK Sekretariat International Conference on Natural Products 2013 (ICNP 2013) Shah Alam Convention Centre (SACC) Selangor, Malaysia</p>
24 Nov 2013	<p>Fasilitator</p>

	<p>Modul 4 (Penguahan Jati Diri) Peringkat Ijazah Sarjana Muda Fakulti Sains Gunaan Universiti Teknologi MARA</p>
06 Mei 2018	<p>Fasilitator Program Jalinan Kimia Sekolah Seri Puteri Cyberjaya</p>
01 Dis 2017 – 30 Nov 2019	<p>Koordinator Hal Ehwal Pelajar (HEP), Kemahiran Insaniah (KI) & Kenegaraan Fakulti Sains Gunaan Universiti Teknologi MARA</p>
01 Sep 2018	<p>Reseource Person (RP) CHM477: Introductory Inorganic Chemistry Pusat Pengajian Kimia & Persekitaran Fakulti Sains Gunaan Universiti Teknologi MARA</p>
01 Mac 2019	<p>Reseource Person (RP) CHM475: Inorganic Chemistry Pusat Pengajian Kimia & Persekitaran Fakulti Sains Gunaan Universiti Teknologi MARA</p>
01 Feb 2019 – 31 Jan 2021	<p>Penyelidik Bersekutu Centre for Nanomaterials Research Institute of Science Universiti Teknologi MARA</p>
03 – 20 Apr 2019	<p>Sekretarial Fakulti Sempena WIRASA 2019 Universiti Teknologi MARA</p>
23 Nov 2019	<p>Fasilitator Modul Pembangunan Kerjaya Peringkat Ijazah Sarjana Muda Fakulti Sains Gunaan Universiti Teknologi MARA</p>
01 Dis 2019 – 30 Nov 2021	<p>Koordinator Hal Ehwal Pelajar (HEP), Kemahiran Insaniah (KI) & Kenegaraan Fakulti Sains Gunaan Universiti Teknologi MARA</p>
21 Apr 2021	<p>Fasilitator Modul Pembangunan Kerjaya Peringkat Ijazah Sarjana Muda Fakulti Sains Gunaan Universiti Teknologi MARA</p>
01 Jun 2020 – 31 Dis 2021	<p>Pengurus Projek</p>

- Perancangan Strategik (FSG2025)
Fakulti Sains Gunaan
Universiti Teknologi MARA
- 01 Mac 2020 – 28 Feb 2022 **Pihak Berkuasa Tatatertib**
Fakulti Sains Gunaan
Universiti Teknologi MARA
- 1 Feb 202 – 30 Jan 2024 **Penyelidik Tetap**
Centre for Nanomaterials Research
Institute of Science
Universiti Teknologi MARA
- 01 Jan – 31 Dis 2021 **Pengurus Projek**
Perancangan Strategik
Fakulti Sains Gunaan
Universiti Teknologi MARA
- 01 Okt 2021 – 30 Sep 2023 **Resource Person (RP)**
CHM475/CHM477: Inorganic Chemistry / Introductory
Inorganic Chemistry
Pusat Pengajian Kimia & Persekitaran
Fakulti Sains Gunaan
Universiti Teknologi MARA
- 25 – 26 Okt 2021 **Fasilitator**
Seminar Rangkaian Makmal Nanoteknologi Kebangsaan
2021 (RMNK 2021)
Institut Sains
Universiti Teknologi MARA
- Semester Mac – Aug 2022 **Penasihat Akademik (PA)**
Program AS222 / AS229 / AS239 / AS245 / AS253
Pusat Pengajian Kimia & Persekitaran
Fakulti Sains Gunaan
Universiti Teknologi MARA
- 23 Feb 2022 – 22 Feb 2027 **Felo Penyelidik**
Institute of Science
Universiti Teknologi MARA
- 01 Apr – 31 Dis 2022 **Fasilitator**
Kumpulan Inovatif & Kreatif (KIK) Tahun 2022
Faculty of Applied Sciences
Universiti Teknologi MARA
- 01 Mac 2022 – 28 Feb 2024 **Koordinator**
Projek Penyelidikan Tahun Akhir (FSG671)
Sarjana Muda Sains (Kepujian) Kimia Dengan Pengurusan
(AS222)
Fakulti Sains Gunaan
Universiti Teknologi MARA

RESEARCH INTERESTS

- Nanomaterials
- Metal oxides
- Catalysis
- Nanocatalysis
- Biofuel
- Renewable energy
- Environmental remediation

RESEARCH COLLABORATIONS

Department of Chemical Sciences, Faculty of Science and Technology, Universiti Kebangsaan Malaysia, 43600, UKM Bangi, Selangor, Malaysia

Catalysis Science and Technology Research Centre, Faculty of Science, Universiti Putra Malaysia, 43400 UPM Serdang, Selangor, Malaysia

Department of Basic Science and Engineering, Faculty of Agriculture, Science and Technology, Universiti Putra Malaysia, 97008, Bintulu, Sarawak, Malaysia

Faculty of Science and Natural Resources, Universiti Malaysia Sabah, 88400 Kota Kinabalu, Sabah, Malaysia

HiCoE, Biomass Processing Cluster, Centre for Biofuel and Biochemical Research, Institute of Sustainable Building, Universiti Teknologi PETRONAS, 32610 Seri Iskandar, Perak, Malaysia

Nanoscience and Nanotechnology Research Group (NanoRG) and Department of Biotechnology Engineering, Kulliyah of Engineering, International Islamic University Malaysia, 50728 Kuala Lumpur, Malaysia

Department of Mechanical Science and Engineering, Hiroshima University, 1-4-1 Kagamiyama, Higashi-Hiroshima 739-8527, Japan

Center of Excellence for Green Energy and Environmental Nanomaterials (CE@GrEEN), Nguyen Tat Thanh University, 300A Nguyen Tat Thanh, District 4, Ho Chi Minh City 755414, Vietnam

School of Chemistry and Molecular Bioscience, University of Wollongong, Northfields Avenue, Wollongong 2522, Australia

Institute of Materials Engineering, Australian Nuclear Science and Technology Organisation, Locked Bag 2001, Kirrawee DC, NSW 2232, Australia

Department of Chemistry, Tufts University, Medford, Massachusetts 02155, United States

Center of Excellence in Nanotechnology and Chemical Engineering Department, King Fahd University of Petroleum and Minerals, Dhahran 31261, Saudi Arabia

Department of Mechanical and Biosystem Engineering, Faculty of Agricultural Engineering and Technology, IPB University (Bogor Agricultural University), IPB Darmaga Campus, PO BOX 220, Bogor, West Java 16680, Indonesia

Department of Chemical and Biomolecular Engineering, National University of Singapore, Singapore, 119260, Singapore

RESEARCH GRANTS

1. *Synthesis of magnesium oxide nanopowder using sol-gel method.* **Dana Kecemerlangan UiTM, RM10 000**, 15/06/2009 – 15/06/2010.

Project Leader

Mohd Sufri bin Mastuli, Che Norlida binti Kamarulzaman, Karimah binti Kassim

2. *Structural parameters and atomic positions of nanostructured and substituted Al₂O₃,* **Fundamental Research Grant Scheme (FRGS)**, Ministry of Higher Education of Malaysia, **RM50 000**, 01/11/2009 – 30/04/2011.

Project Member

Che Norlida binti Kamarulzaman, Ri Hanum binti Yahaya Subban, **Mohd Sufri bin Mastuli**

3. *Conductivity studies of novel acyclic Schiff bases and their metal complexes,* **Fundamental Research Grant Scheme (FRGS)**, Ministry of Higher Education of Malaysia, **RM51 200**, 01/03/2010 – 29/02/2012.

Project Member

Karimah binti Kassim, **Mohd Sufri bin Mastuli**, Rosdiyana binti Hasham@Hisam

4. *Preparation of curved structure of MgO via sol-gel method assisted cetyltrimethylammonium bromide: Thermal, phase and morphological studies,* **Fundamental Research Grant Scheme (FRGS)**, Ministry of Higher Education of Malaysia, **RM54 500**, 27/12/2010 – 26/12/2012.

Project Leader

Mohd Sufri bin Mastuli, Karimah binti Kassim

5. *SnO₂ nanoparticles: Synthesis and characterisation,* **UiTM Vice-Chancellor Special Project, RM22 000**, 01/05/2011 – 31/05/2012.

Project Member

Che Norlida binti Kamarulzaman, **Mohd Sufri bin Mastuli**, Annie Maria binti Mahat

6. *Synthesis of ordered nanoparticles mesoporous alumina network assisted by biopolymer.* **Fundamental Research Grant Scheme (FRGS)**, Ministry of Higher Education of Malaysia, **RM65 000**, 01/07/2011 – 31/12/2013.

Project Member

Mohd Azizi bin Nawawi, Nurul Auni binti Zainal Abidin, Nurul Huda binti Abdul Halim, **Mohd Sufri bin Mastuli**

7. *A novel adsorbent of nanostructured MgO for heavy metals removal from textile wastewater.* **Organisation of the Prohibition of Chemical Weapons (OPCW)**, Netherland, **€25 000 (RM122 488)**, 01/11/2011 – 30/11/2014.

Project Leader

Mohd Sufri bin Mastuli, Che Norlida binti Kamarulzaman

8. *Removal of heavy metals from wastewater using MgO nanopowders.* **UiTM Vice-Chancellor Special Project, RM10 000**, 01/01/2012 – 31/07/2013.

Project Leader

Mohd Sufri bin Mastuli

9. *Synthesis, characterisation and conductivity studies of Schiff base ligands derived from isation and their metal complexes.* RIF UiTM, **RM32 000**, 01/12/2012 – 30/11/2014.

Project Member

Karimah binti Kassim, **Mohd Sufri bin Mastuli**, Adibatul Husna binti Fadzil

10. *Catalytic properties of CaO nanocatalysts in supercritical water gasification (SCWG) of oil palm empty fruit bunches (OPEFB).* **Fundamental Research Grant Scheme (FRGS)**, Ministry of Higher Education of Malaysia, **RM69 000**, 01/04/2013 – 31/03/2015.

Project Leader

Mohd Sufri bin Mastuli, Karimah binti Kassim, Taufiq Yap Yun Hin, Mohd Azizi bin Nawawi

11. *Charge-discharge properties $\text{LiCo}_{0.3}\text{Ni}_{(0.7-x)}\text{Ti}_x\text{O}_2$ cathode materials and their chemical configuration.* **Fundamental Research Grant Scheme (FRGS)**, Ministry of Higher Education of Malaysia, **RM100 912**, 15/08/2017 – 14/11/2020.

Project Member

Muhd Firdaus bin Kasim, Che Norlida binti Kamarulzaman, **Mohd Sufri bin Mastuli**, Kelimah Anak Elong, Nor Fadilah binti Chayed

12. *Synthesis, characterisation and band gaps of ZnO and $\text{Zn}_{1-x}\text{Mn}_x\text{O}$ nanomaterials.* **LESTARI UiTM**, **RM20 000**, 01/07/2017 – 30/06/2019.

Project Member

Muhd Firdaus bin Kasim, Che Norlida binti Kamarulzaman, **Mohd Sufri bin Mastuli**, Nor Fadilah binti Chayed, Kelimah Anak Elong

13. *Preparation of biochar solid acid catalyst for low-cost biodiesel production from palm fatty acid distillate.* **LESTARI UiTM**, **RM20 000**, 01/07/2017 – 30/12/2019.

Project Member

Mohd Lokman bin Ibrahim, **Mohd Sufri bin Mastuli**, Muhd Firdaus bin Kasim, Nur Hikamah binti Seth

14. *Synthesis and characterisation of MgO and $\text{Mg}_{1-x}\text{Cu}_x\text{O}$ nanomaterials and their band gap energies.* **LESTARI UiTM**, **RM20 000**, 01/10/2017 – 30/09/2019.

Project Member

Nor Fadilah binti Chayed, Che Norlida binti Kamarulzaman, Muhd Firdaus bin Kasim, Kelimah Anak Elong, **Mohd Sufri bin Mastuli**

15. *Synthesis of metal-doped biomass derived heterogenous solid acid catalysts for biodiesel production from waste oils.* **BESTARI UiTM**, **RM25 000**, 01/01/2018 – 01/07/2020.

Project Member

Mohd Lokman bin Ibrahim, Sabiha Hanim binti Saleh, **Mohd Sufri bin Mastuli**, Noraini binti Hamzah

16. *Highly active SnO₂ nanoparticles as superacid catalysts in esterification of low-cost palm fatty acid distillate (PFAD) feedstock into biodiesel. Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education of Malaysia, RM91 700, 01/01/2019 – 31/12/2021.*

Project Leader

Mohd Sufri bin Mastuli, Taufiq Yap Yun Hin, Muhd Firdaus bin Kasim, Mohd Lokman bin Ibrahim

17. *Development of effective NiO-TMO (TMO = Ag, Fe, La, Cd, Mn, Mo) supported on activated carbon for pyrolytic deoxygenation of triglycerides into renewable biofuel. Fundamental Research Grant Scheme-Malaysia's Research Star Award (FRGS-MRSA), Ministry of Higher Education of Malaysia, RM174 200, 01/12/2019 – 31/08/2022.*

Project Member

Taufiq Yap Yun Hin, **Mohd Sufri bin Mastuli**, Salmiaton binti Ali, Mohd Izham Saiman

18. *Growth mechanism study uncovering structure-function relationships in metal (Au, Ag, Pt) nanoparticles integrated on metal-oxide materials. LESTARI UiTM, RM30 000, 01/07/2019 – 01/07/2021.*

Project Member

Nur Aimi binti Jani, Annie Maria binti Mahat, **Mohd Sufri bin Mastuli**

19. *Penggalakan penggunaan teknologi hijau: daripada tenaga matahari kepada tenaga elektrik. Kerajaan Negeri Selangor, RM10 000, 05/07/2019 – 14/05/2020.*

Project Member

Tan Winie, Rozana binti Mohd Dahan, Ismaniza binti Ismail, Mohd Muzamir bin Mahat, Hedzlin binti Zainuddin, Sabiha Hanim binti Saleh, Farah Liyana binti Muhammad Khir, **Mohd Sufri bin Mastuli**, Annie Maria binti Mahat, Fadiatul Hasinah binti Muhammad

20. *Transesterification of palm olein oil to fatty acid methyl ester using CaO-sugar cane bagasse ash as heterogeneous basic catalyst. Fundamental Research Grant Scheme-Research Acculturation of Early Career Researchers (FRGS-RACER), Ministry of Higher Education of Malaysia, RM51 200, 01/09/2019 – 31/05/2022.*

Project Member

Mohd Lokman bin Ibrahim, Raja Razuan bin Raja Deris, Taufiq Yap Yun Hin, **Mohd Sufri bin Mastuli**, Juan bin Matmin

21. *Investigating the immobilization of silver nanoparticle (AgNP) catalyst on activated carbon (AC) derived from durian's skin. Fundamental Research Grant Scheme-Research Acculturation of Early Career Researchers (FRGS-RACER), Ministry of Higher Education of Malaysia, RM40 000, 01/09/2019 – 31/05/2022.*

Project Member

Ricca binti Rahman Nasaruddin, Sarina binti Sulaiman, Dzun Noraini Jima, Nor Farah Huda binti Abd Halim, **Mohd Sufri bin Mastuli**

22. *Mechanistic insight on interaction between conducting polymer and functionalized 3D hierarchical ordered porous kapok-derived C-doped graphitic carbon nitride for solar fuel generation. Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education of Malaysia, RM156 200, 01/11/2020 – 31/10/2023.*

Project Member

Mohamad Azuwa bin Mohamed, Siti Fairus binti Mohd Yusoff, Mohammad bin Kassim, Lorna Jeffery Minggu, **Mohd Sufri bin Mastuli**

23. *Comparative study on different oxidizing agents of self-propagating combustion (SPC) synthesized $Al_{2-x}Hf_xO_3$ Materials. Geran Peruntukan Khas (GPK UiTM), RM 20 000, 21/12/2020 – 20/12/2022.*

Project Member

Annie Maria binti Mahat, **Mohd Sufri bin Mastuli**, Nur Aimi binti Jani, Zurina binti Osman

24. *Mesoporous silica nanoparticles extracted from oil palm fronds for the development of magnetic solid phase extraction method for efficient separation of organochlorine pesticides in water samples. Organisation of the Prohibition of Chemical Weapons (OPCW), Netherland, RM51 846, 04/06/2021 – 03/06/2023.*

Project Member

Wan Nazihah binti Wan Ibrahim, Nursyamsyila binti Mat Hadzir, **Mohd Sufri bin Mastuli**, Nor Suhaila binti Mohamad Hanapi, Nurhusna binti Zainal Abidin

25. *Catalytic deoxygenation-cracking of tung oil over tungsten-cobalt supported silica-alumina catalyst for production of bio-jet fuel. Dana Universiti Penyelidikan, Universiti Kebangsaan Malaysia, RM50 000, 01/08/2020 – 31/07/2022.*

Project Member

Nurul Asikin binti Mijan, Darfizzi bin Derawi, Rusli bin Daik, Taufiq Yap Yun-Hin, **Mohd Sufri bin Mastuli**

26. *Polymer Phase-Inversion Mediated Porous C-Doped Graphitic Carbon Nitride-Based Heterojunction Photoelectrode for Photoelectrocatalytic Hydrogen Production. Geran Universiti Penyelidikan (GUP), Universiti Kebangsaan Malaysia, RM70 000, 01/09/2021 – 31/08/2023.*

Project Member

Mohamad Azuwa bin Mohamed, Azizan Ahmad, Mohammad bin Kassim, Muhammad Rahimi Yusop, **Mohd Sufri bin Mastuli**

JOURNAL PUBLICATIONS

1. *Synthesis of Alumina Nanoparticles Using Agarose as Template*
Mohd Azizi Nawawi, **Mohd Sufri Mastuli**, Nurul Huda Abdul Halim, Nurul Auni Zainal Abidin

International Journal of Engineering and Innovative Technology 3 (2013) 337-340
2. *Effects of lithium dopant on size and morphology of magnesium oxide nanopowders*
Mohd Sufri Mastuli, Siti Nur Hazlinda Hasbu, Noraziahwati Ibrahim, Mohd Azizi Nawawi

The Malaysian Journal of Analytical Sciences 18 (2014) 15-20
3. *Synthesis, characterisation and corrosion inhibition studies of o,m,p-decanoyl thiourea derivatives on mild steel in 0.1 M H₂SO₄ solutions*
Noor Khadijah Mustafa Kamal, Adibatul Husna Fadzil, Karimah Kassim, Shadatul Hanom Rashid, **Mohd Sufri Mastuli**

The Malaysian Journal of Analytical Sciences 18 (2014) 21-27
4. *Growth mechanisms of MgO nanocrystals via a sol-gel synthesis using different complexing agents*
Mohd Sufri Mastuli, Norlida Kamarulzaman, Mohd Azizi Nawawi, Annie Maria Mahat, Roshidah Rusdi, Norashikin Kamarudin

Nanoscale research letters 9 (2014) 134
5. *Screening of modified CaO-based catalysts with a series of dopants for the supercritical water gasification of empty palm fruit bunches to produce hydrogen*
Sivasangar, S. **Mastuli, M. S.** Islam, A. Taufiq-Yap, Y. H.

RSC Advances 5 (2015) 36798-36808
6. *Synthesis of structured carbon nanorods for efficient hydrogen storage*
G Abdulkreem-Alsultan, Aminul Islam, Jidon Janaun, **MS Mastuli**, Y-H Taufiq-Yap

Materials Letters 179 (2016) 57-60
7. *Catalytic gasification of oil palm frond biomass in supercritical water using MgO supported Ni, Cu and Zn oxides as catalysts for hydrogen production*
MS Mastuli, N Kamarulzaman, MF Kasim, S Sivasangar, MI Saiman, YH Taufiq-Yap

International Journal of Hydrogen Energy 42 (2017) 11215-11228
8. *Optimisation study of SiO₂-Al₂O₃ supported bifunctional acid–base NiO-CaO for renewable fuel production using response surface methodology*
N Asikin-Mijan, HV Lee, YH Taufiq-Yap, G Abdulkrem-Alsultan, **MS Mastuli**, Hwai Chyuan Ong

Energy Conversion and Management 141 (2017) 325-338
9. *Carbonisation of corn (Zea mays) cob agricultural residue by one-step activation with sulfuric acid for methylene blue adsorption*

Ali H Jawad, Shaymaa Adil Mohammed, **Mohd Sufri Mastuli**, Mohd Fauzi Abdullah

Desalination and Water Treatment 118 (2018) 342-351

10. *Pomegranate peels collected from fresh juice shop as a renewable precursor for high surface area activated carbon with potential application for methylene blue adsorption*

Ali H Jawad, Muna Hasoon Saudi, **Mohd Sufri Mastuli**, Mohammed Ajah Aouda, Khairul Adzfa Radzun

Desalination and Water Treatment 124 (2018) 287-296

11. *Adsorption behavior of methylene blue on acid-treated rubber (Hevea brasiliensis) leaf*

Ali H Jawad, Shaimaa Hassan Mallah, **Mohd Sufri Mastuli**

Desalination and Water Treatment 124 (2018) 297-307

12. *Biochar from orange (citrus sinensis) peels by acid activation for methylene blue adsorption*

ALI Jawad, Dhafir TA Al-Heetim, **Mohd Sufri Mastuli**

Iranian Journal of Chemistry and Chemical Engineering 38 (2019) 91-105

13. *Designing visible-light-driven photocatalyst of Ag_3PO_4/CeO_2 for enhanced photocatalytic activity under low light irradiation*

ON Syazwani, Zul Adlan Mohd Hir, Hayati Mukhair, **Mohd Sufri Mastuli**, Abdul Halim Abdullah

Journal of Materials Science: Materials in Electronics 30 (2019) 415-423

14. *Esterification of palm fatty acid distillate (PFAD) to biodiesel using Bi-functional catalyst synthesised from waste angel wing shell (Cyrtopleura costata)*

Osman Nur Syazwani, Umer Rashid, **Mohd Sufri Mastuli**, Yun Hin Taufiq-Yap

Renewable Energy 131 (2019) 187-196

15. *Comparative study between supported and doped MgO catalysts in supercritical water gasification for hydrogen production*

Mohd Sufri Mastuli, Norlida Kamarulzaman, Muhd Firdaus Kasim, Zulkarnain Zainal, Yukihiko Matsumura, Yun Hin Taufiq-Yap

International Journal of Hydrogen Energy 44 (2019) 3690-3701

16. *Bio-inspired hierarchical hetero-architectures of in-situ C-doped g-C₃N₄ grafted on C, N co-doped ZnO micro-flowers with booming solar photocatalytic activity*

Mohamad Azuwa Mohamed, MFM Zain, Lorna Jeffery Minggu, Mohammad B Kassim, Juhana Jaafar, Nor Aishah Saidina Amin, **Mohd Sufri Mastuli**, Hao Wu, Roong Jien Wong, Yun Hau Ng

Journal of Industrial and Engineering Chemistry 77 (2019) 393-407

17. *Catalytic supercritical water gasification of oil palm frond biomass using nanosized MgO doped Zn catalysts*

Mohd Sufri Mastuli, Norlida Kamarulzaman, Muhd Firdaus Kasim, Annie Maria Mahat, Yukihiko Matsumura, Yun Hin Taufiq-Yap

The Journal of Supercritical Fluids 154 (2019) 104610

18. *Green Flexible Polyurethane Foam as a Potent Support for Fe-Si Adsorbent*
Afiqah Ahmad, Siti Nurul Ain Md Jamil, Thomas Shean Yaw Choong, Abdul Halim Abdullah, **Mohd Sufri Mastuli**, Nurhanisah Othman, NurNazurah Jiman

Polymers 11 (2019) 2011

19. *Acid-fuctionalized biomass material for methylene blue dye removal: a comprehensive adsorption and mechanism study*
Ali H Jawad, Ahmed Saud Abdulhameed, **Mohd Sufri Mastuli**

Journal of Taibah University for Science 14 (2020) 305-313

20. *Comparative study on photocatalytic activity of transition metals (Ag and Ni)-doped ZnO nanomaterials synthesised via sol-gel method*
AK Azfar, MF Kasim, IM Lokman, HA Rafea, **MS Mastuli**

Royal Society Open Science 7 (2020) 191590

21. *Mesoporous Crosslinked Chitosan-Activated Charcoal Composite for the Removal of Thionine Cationic Dye: Comprehensive Adsorption and Mechanism Study*
Ali H Jawad, Ahmed Saud Abdulhameed, **Mohd Sufri Mastuli**

Journal of Polymers and the Environment 28 (2020) 1095–1105

22. *Free-H₂ deoxygenation of Jatropha curcas oil into cleaner diesel-grade biofuel over coconut residue-derived activated carbon catalyst*
N Asikin-Mijan, JM Ooi, G AbdulKareem-Alsultan, HV Lee, **MS Mastuli**, Nasar Mansir, Fahad A Alharthi, Abdulaziz Ali Alghamdi, YH Taufiq-Yap

Journal of Cleaner Production 249 (2020) 1193812

23. *Hematite microcube decorated TiO₂ nanorods as heterojunction photocatalyst with in-situ carbon doping derived from polysaccharides bio-templates hydrothermal carbonisation*

Mohamad Azuwa Mohamed, Nurashina Abdul Rahman, MFM Zain, Lorna Jeffery Minggu, Mohammad B Kassim, Juhana Jaafar, Shuaiba Samad, **Mohd Sufri Mastuli**, Roong Jien Wong

Journal of Alloys and Compounds 820 (2020) 1531432

24. *Mechanism of the formation of novel Al_{2-x}Hf_xO₃ materials via a combustion synthesis method*

Annie Maria Mahat, Norlida Kamarulzaman, **Mohd Sufri Mastuli**, Nurhanna Badar, Nur Aimi Jani, Muhammad Firdaus Omar

Results in Materials 6 (2020) 100075

25. *SiO₂-Rich Sugar Cane Bagasse Ash Catalyst for Transesterification of Palm Oil*

Aunie Afifah Abdul Mutalib, Mohd Lokman Ibrahim, Juan Matmin, Muhd Firdaus Kassim, **Mohd Sufri Mastuli**, Yun Hin Taufiq-Yap, Norshahidatul Akmar Mohd Shohaimi, Aminul Islam, Yie Hua Tan, Noor Haida Mohd Kaus

BioEnergy Research (2020)
<https://doi.org/10.1007/s12155-020-10119-6>

26. *Biosorption of methylene blue dye by rice (Oryza sativa L.) straw: Adsorption and mechanism study*
Ali H. Jawad, Nurul Nadiah Mohd Firdaus Huma, Ahlam M Farhan, **Mohd Sufri Mastuli**

Desalination and Water Treatment 190 (2020) 322-330

27. *Physicochemical modification of chitosan with fly ash and tripolyphosphate for removal of reactive red 120 dye: Statistical optimisation and mechanism study*
Ibrahim Awad Mohammed, Ali H Jawad, Ahmed Saud Abdulhameed, **Mohd Sufri Mastuli**

International Journal of Biological Macromolecules 161 (2020) 503-513

28. *Production of renewable diesel from Jatropha curcas oil via pyrolytic-deoxygenation over various multi-wall carbon nanotube-based catalysts*
N. Asikin-Mijan, N.A. Rosman, G. AbdulKareem-Alsultan, **M.S. Mastuli**, H.V. Lee, N. Nabihah-Fauzi, I.M. Lokman, Fahad A. Alharthi, Abdulaziz Ali Alghamdi, Amjad Abdullah Aisyahi, Y.H. Taufiq-Yap

Process Safety and Environmental Protection 142 (2020) 336-349

29. *Sulfonated SnO₂ nanocatalysts via a self-propagating combustion method for esterification of palm fatty acid distillate*
N. Nabihah-Fauzi, N. Asikin-Mijan, Mohd Lokman Ibrahim, Hasdiyana Hashim, Suzana Yusup, Y. H. Taufiq-Yap, **Mohd Sufri Mastuli**

RSC Advances 10 (2020) 29187 – 29201

30. *Structural and catalytic studies of Mg_{1-x}Ni_xO nanomaterials for gasification of biomass in supercritical water for H₂-rich syngas production*
Mohd Sufri Mastuli, Muhd Firdaus Kasim, Annie Maria Mahat, N. Asikin-Mijan, S. Sivasangar, Yun Hin Taufiq-Yap

International Journal of Hydrogen Energy 45, 58 (2020) 33218 – 33234

31. *Photocatalysis for organic wastewater treatment: From the basis to current challenges for society*
Salma Izati Sinar Mashuri, Mohd Lokman Ibrahim, Muhd Firdaus Kasim, **Mohd Sufri Mastuli**, Umer Rashid, Abdul Halim Abdullah, Aminul Islam, Nurul Asikin Mijan, Yie Hua Tan, Nasar Mansir, Noor Haida Mohd Kaus, Taufiq-Yap Yun Hin

Catalysts 10, 1260 (2020) 1 – 29

32. *Progress on modified calcium oxide derived waste-shell catalysts for biodiesel production*

Hui Khim Ooi, Xin Ning Koh, Hwai Chyuan Ong, Hwei Voon Lee, **Mohd Sufri Mastuli**, Yun Hin Taufiq-Yap, Fahad A. Alharthi, Abdulaziz Ali Alghamdi and Nurul Asikin Mijan

Catalysts 11, 194 (2021) 1 – 26

33. *A promoter effect on hydrodeoxygenation reactions of oleic acid by zeolite beta catalysts*

I Nur Azreena, HLN Lau, N Asikin-Mijan, MA Hassan, Saiman Mohd Izham, E Kennedy, M Stockenhuber, **MS Mastuli**, Fahad A Alharthi, Abdulaziz Ali Alghamdi, YH Taufiq-Yap

Journal of Analytical and Applied Pyrolysis 155 (2021) 105044

34. *Facile synthesis of nanosized La/ZrO₂ catalysts for ketonization of free fatty acid and biomass feedstocks*

Sabrina Zaidi, N Asikin-Mijan, AS Hussain, **Mohd Sufri Mastuli**, Fahad A Alharthi, Abdulaziz Ali Alghamdi, YH Taufiq-Yap

Journal of the Taiwan Institute of Chemical Engineers 121 (2021) 217 – 228

35. *Novel Al_{1.997}Hf_{0.003}O₃ High-k gate dielectric thin films grown by pulsed laser deposition using pre-synthesized target material*

Annie Maria Mahat, **Mohd Sufri Mastuli**, Nurhanna Badar, Norlida Kamarulzaman

Journal of Materials Science: Materials in Electronics 32, 8 (2021) 10927 - 10942

36. *Catalytic esterification of palm fatty acid distillate into biodiesel over sulfonated iron oxide catalyst*

Michelle Matius, **Mohd Sufri Mastuli**

Journal of the Japan Institute of Energy 100, 12 (2021) 301 – 306

37. *Green synthesis of silver nanoparticles using coffee extract for catalysis*

L. Alafandia, R.R. Nasaruddina, A.H.A. Aziza, N.S. Englimana, **M.S. Mastuli**

Malaysian NANO - An International Journal 1, 2 (2021) 13 – 25

38. *Multivariable optimization with desirability function for carbon porosity and methylene blue adsorption by watermelon rind activated carbon prepared by microwave assisted H₃PO₄*

Ali H Jawad, Uttam Kumar Sahu, **Mohd Sufri Mastuli**, Zeid A ALOthman, Lee D Wilson

Biomass Conversion and Biorefinery (2022) 1 – 15

39. *Box-behnken design for optimizing synthesis and adsorption conditions of covalently crosslinked chitosan/coal fly ash composite for reactive red 120 dye removal*

Ibrahim Awad Mohammed, Nurul Najwa Abd Malek, Ali H Jawad, **Mohd Sufri Mastuli**, Zeid A ALOthman

Journal of Polymers and the Environment (2022) 1 – 16

40. *Chemoselective decarboxylation of ceiba oil to diesel-range alkanes over a red mud based catalyst under H₂-free conditions*

Nur Athirah Adzahar, N Asikin-Mijan, Mohd Izham Saiman, G Abdulkareem Alsultan, **MS Mastuli**, Mohd Razali Shamsuddin, YH Taufiq-Yap

RSC Advances 12, 26 (2022) 16903-16917

PROCEEDING PUBLICATIONS

1. *Conductivities of titanium dioxide obtained via the sol-gel method*
Annie Maria Mahat, Kelimah Elong, Nor Diyana Abdul Aziz, **Mohd Sufri Mastuli**, Norlida Kamarulzaman

Advanced Materials Research 545 (2012) 143-147
2. *Sol-gel synthesis of highly stable nano sized MgO from magnesium oxalate dihydrate*
Mohd Sufri Mastuli, Rusdi Roshidah, Annie Maria Mahat, Norazira Saat, Norlida Kamarulzaman

Advanced Materials Research 545 (2012) 137-142
3. *Effects of cationic surfactant in sol-gel synthesis of nano sized magnesium oxide*
Mohd Sufri Mastuli, Noor Sabrina Ansari, Mohd Azizi Nawawi, Annie Maria Mahat

APCBEE Procedia 3 (2012) 93-98
4. *MgO nanostructured materials obtained via the solid-state reaction method*
NOR FADILAH Chayed, NORLIDA Kamarulzaman, NURHANNA Badar, Rusdi Roshidah, NORASHIKIN Kamarudin, **MOHD SUFRI Mastuli**

Advanced Materials Research 895 (2014) 347-350
5. *Influence of annealing temperature on the phase transformation of Al₂O₃*
Annie Maria Mahat, **Mohd Sufri Mastuli**, Norlida Kamarulzaman

AIP Conference Proceedings 1711 (2016) 050001
6. *Ni, Zn and Fe hydrotalcite-like catalysts for catalytic biomass compound into green biofuel*
Shajaratun Nur Zdainal Abidin, Hwei Voon Lee, Nurul Asikin-Mijan, Joon Ching Juan, Noorsaadah Abd Rahman, **Mohd Sufri Mastuli**, Yun Hin Taufiq-Yap, Pei San Kong

Pure and Applied Chemistry 92 (4) (2020) 587-600
7. *Electrochemical Performance of Mn and Fe Substitution in LiCo_{0.9}X_{0.1}O₂ Cathode Materials*
Mohd Abdillih, Nor Syamilah Syamimi, Norlida Kamarulzaman, Kelimah Elong, Nurhanna Badar, **Mohd Sufri Mastuli**

Solid State Phenomena 301 (2020) 195-201
8. *Effect on Electrochemical Performance of Cr and Ni Substitution in LiCoO₂ Cathode Materials*

Nor Syamilah Syamimi Mohd Abdillih, Norlida Kamarulzaman, Kelimah Elong, **Mohd Sufri Mastuli**

Solid State Phenomena 307 (2020) 113 – 118

9. *The Effect of Calcination Time on Crystallite Size of $\text{LiMn}_{1.8}\text{Ni}_{0.2}\text{O}_4$ Cathode Materials*
Michelle Matus, Norlida Kamarulzaman, **Mohd Sufri Mastuli**, Nor Syamilah Syamimi Mohd Abdillih, Kelimah Elong

Solid State Phenomena 307 (2020) 136-140

10. *Photocatalytic activity of transition metals (Mn, Fe, Ag and Ni doped ZnO) nanomaterials synthesized via sol-gel method: Active sites over band gap*
AKA Darman, ML Ibrahim, HA Rafea, **MS Mastuli**, MF Kasim

IOP Conference Series: Materials Science and Engineering 839 (2020) 012006

11. *Effect of Stabilizers in the Synthesis of Silver Nanoparticles and Methylene Blue Oxidation*
Dzilal Amir, Ricca Rahman Nasaruddin, Nurul Sakinah Engliman, Sarina Sulaiman, **Mohd Sufri Mastuli**

IOP Conference Series: Materials Science and Engineering 1192, 1 (2021) 012031

BOOK CHAPTERS

1. *Vegetable-oil based feedstocks for biofuel production: Physicochemical properties and chemical compositions*
N Asikin-Mijan, Darfizzi Derawi, Nadia Salih, Jumat Salimon, G Abdulkareem Alsultan, **MS Mastuli**, Megan XY Ravindran

Innovations in Thermochemical Technologies for Biofuel Processing (2022) 197 – 219, Elsevier

POSTGRADUATES SUPERVISION (PhD)

1. Mohammed Ibrahim Awad Mohammed (AS950 – 2019841708)
2019 – Present (**On-going**)
Co-SV (Joint Supervision: Assoc. Prof. Dr. Ali H. Jawad (UiTM))

Project Title: *Synthesis of crosslinked chitosan derivatives/fly ash composite for removal of reactive red 120 (RR120) dye from aqueous environment*

2. Nor Fadilah binti Chayed (AS950 - 2019364953)
2019 – Present (**On-going**)
Co-SV (Joint Supervision: Dr. Mohd Lokman bin Ibrahim (UiTM))

Project Title: *Photocatalytic evaluation of $g\text{-C}_3\text{N}_4/\text{ZnO}$ nanostructured for dye degradation*

3. Nurul Atikah binti Nordin (P109641)
2021 – Present (**On-going**)

Co-SV (Joint Supervision: Dr. Mohamad Azuwa bin Mohamed (UKM))

Project Title: TBC

POSTGRADUATES SUPERVISION (MSc)

1. Nor Fadhilah binti Chayed (AS780 – 2010890654)
2010 – 2014 (**Completed**)
Co-SV (Joint Supervision: Prof. Dr. Norlida Kamarulzaman (UiTM))

Project Title: *Synthesis and characterisation of MgO nanostructures by different synthesis methods*
2. Muhamad Faridz bin Osman (AS780 – 2010155901)
2010 – 2017 (**Completed**)
Co-SV (Joint Supervision: Assoc. Prof. Dr. Karimah Kassim (UiTM))

Project Title: *Synthesis, characterisation and conductivity studies of conjugated cyclic Schiff Base compounds*
3. Mohamad Shukri bin Kamarudin (EC704 – 2016481354)
2016 – 2018 (**Completed**)
Co-SV (Joint Supervision: Dr. Jurina Jaafar (UiTM))

Project Title: *Biodiesel production in the presence of sulphated tin oxide nanocatalyst via esterification of palm fatty acid distillate (PFAD)*
4. Nor Syamilah Syamimi binti Mohd Abdiillih (AS756 - 2016781359)
2016 – 2020 (**Completed**)
Main SV

Project Title: *Electrochemical performance of layered $\text{LiCo}_{0.9}\text{X}_{0.1}\text{O}_2$ ($\text{X} = \text{Cr}, \text{Mn}, \text{Fe}, \text{Ni}$) cathode materials for lithium-ion batteries*
5. Michelle Matius (AS756 – 2016147007)
2016 – 2020 (**Completed**)
Main SV

Project Title: *Optimisation study of sulfated Fe_2O_3 catalysts for biodiesel production from palm fatty acid distillate (PFAD) using response surface methodology*
6. Nur Nabihah binti Mohammad Fauzi (AS757 – 2019126481)
2019 – 2020 (**Completed**)
Main SV

Project Title: *Biodiesel production via esterification of palm fatty acid distillate over superactive $\text{SO}_4^{2-}/\text{SnO}_2$ catalysts prepared by various synthesis methods*
7. Aunie Afifah binti Abdul Mutalib (AS756 – 2018832462)
2018 – 2021 (**Completed**)
Co-SV (Joint Supervision: Dr. Mohd Lokman bin Ibrahim (UiTM))

Project Title: *Sugarcane bagasse ash supported CaO as the heterogeneous base catalyst for biodiesel production*

8. Nur Irdina Syahirah binti Abdul Ghani (AS756 - 2020249296)
2020 – Present (**On-going**)
Main SV

Project Title: *Catalytic deoxygenation of sludge palm oil into green fuels using Ni-Co/g-C₃N₄ catalysts*
9. Muhammad Irfan bin Amiruddin (AS757 - 2020945223)
2020 – Present (**On-going**)
Co-SV (Joint Supervision: Dr. Mohd Lokman bin Ibrahim (UiTM))

Project Title: *Free fatty acid reduction of waste cooking oil using ZnO nanoparticles driven by ultraviolet (UV) irradiation*
10. Wan Nor Amira Shafiqah binti Wan Mahmood (P109936)
2020 – Present (**Completed**)
Co-SV (Joint Supervision: Dr. Nurul Asikin binti Mijan (UKM))

Project Title: *Transition metal oxides based heterogeneous catalysts for production of high quality biofuel*
11. Nur Athirah binti Adzahar (GS58806)
2021 – Present (**On-going**)
Co-SV (Joint Supervision: Dr. Mohd Izham bin Saiman (UPM))

Project Title: **TBC**
12. Meagen Xin Yi A/P Ravindran (P110328)
2021 – Present (**On-going**)
Co-SV (Joint Supervision: Dr. Nurul Asikin binti Mijan (UKM))

Project Title: **TBC**
13. Nornastasha Azida binti Anuar (P110038)
2021 – Present (**On-going**)
Co-SV (Joint Supervision: Dr. Mohamad Azuwa bin Mohamed (UKM))

Project Title: **TBC**
14. Dzilal binti Amir (G2013826)
2021 – Present (**On-going**)
Co-SV (Joint Supervision: Dr. Ricca Rahman Nasaruddin (UIAM))

Project Title: *Immobilization of silver nanocatalysts on activated carbon from durian skin for dyes removal in wastewater*
15. Azreen Asyikin binti Mhd Kamal (AS756 - 2022137095)
2022 – Present (**On-going**)
Co-SV (Joint Supervision: Dr. Wan Nazihah binti Wan Ibrahim (UiTM))

Project Title: *Developing a new and simple natural deep eutectic solvent based microelectrodriven membrane extraction procedure for HPLC determination and pre-concentration of anabolic steroid drugs from biologic samples*

UNDERGRADUATES SUPERVISION

1. Noor Farahin binti Bain (AS202 – 2007280106)
Mac 2010 – Feb 2011 (**Completed**)
Main SV

Project Title: *Phase and morphological studies of magnesium oxide compounds*
2. Siti Nur Hazlinda binti Hasbu (AS225 – 2008277834)
Mac 2010 – Feb 2011 (**Completed**)
Main SV

Project Title: *Synthesis and characterization of lithium-substituted of magnesium oxide*
3. Ummi Shafikah binti Ahmad Basa (AS225 – 2008277882)
Mac 2010 – Feb 2011 (**Completed**)
Main SV

Project Title: *Thermal and phase studies of magnesium oxide synthesized by using two types of gelating agents*
4. Siti Hanis Liyana binti Omar (AS225 – 2008277852)
Mac 2010 – Feb 2011 (**Completed**)
Main SV

Project Title: *Synthesis and characterization of transition metal-substituted magnesium oxide compounds*
5. Norazira binti Saat (AS202 – 2008288018)
Sep 2010 – Aug 2011 (**Completed**)
Main SV

Project Title: *Effects of annealing treatments onto thermal, phase and morphological of MgO nanopowders*
6. Noraziahwati binti Ibrahim (AS202 – 2008424716)
Sep 2010 – Aug 2011 (**Completed**)
Main SV

Project Title: *Synthesis and characterization of MgO nanopowders by sol-gel method incorporated reflux approach*
7. Sarah binti Sungib (AS225 – 2007139771)
Sep 2010 – Aug 2011 (**Completed**)
Main SV

Project Title: *Synthesis and characterization of MgO nanopowders by varying the concentration of oxalic acid and annealing temperatures*
8. Noor Sabrina binti Ansari (AS202 – 2009603348)
Mac 2012 – Feb 2013 (**Completed**)
Main SV

Project Title: *Sol-gel synthesis of magnesium oxide nanopowders assisted by cationic surfactant*

9. Mohd Ridwan bin Abdul Rahmah (AS225 – 2009259764)
Mac 2012 – Feb 2013 (**Completed**)
Main SV

Project Title: *Decolorizing POME by magnesium oxide nanopowders*

10. Emyrul Iezwan bin Abd Hamid (AS202 – 2009617558)
Mac 2012 – Feb 2013 (**Completed**)
Main SV

Project Title: *Removal of cadmium ions from aqueous solution using commercial and synthesized magnesium oxide powders*

11. Rana binti Malik (AS225 – 2010212276)
Sep 2012 – Aug 2013 (**Completed**)
Main SV

Project Title: *Effects of calcination temperatures onto properties of magnesium oxide nanopowders*

12. Nurul Aimi binti Mohammad Kamil (AS225 – 2010650582)
Sep 2012 – Aug 2013 (**Completed**)
Main SV

Project Title: *Synthesis and characterization of magnesium oxide nanopowders*

13. Nor Haslinda binti Mazzalan (AS225 – 2011643026)
Sep 2012 – Aug 2013 (**Completed**)
Main SV

Project Title: *Effects of CTAB on sol-gel synthesis of magnesium oxide nanoparticles*

14. Balqis Umaira binti Mohamed Faudzi (AS253 – 2015832504)
Feb 2017 – Jan 2018 (**Completed**)
Main SV

Project Title: *Production of biodiesel from non-edible Ceiba Pentandra oil using sulphated calcium oxide nanocatalysts*

15. Norsyafiqah binti Azhar (AS253 – 2015249346)
Feb 2017 – Jan 2018 (**Completed**)
Main SV

Project Title: *Sulfated tin oxide nanocatalysts for esterification of palm fatty acid distilled for biodiesel production*

16. Nasrul Azriq bin Abdul Hamid (AS253 – 2017341489)
Sep 2018 – Dec 2019 (**Completed**)
Main SV

Project Title: *Synthesis of zinc oxide nanoparticles using different types of combustion agent via solution combustion method*

17. Shaza binti Ahmad Nazuki (AS245 – 2016675128)
Mar 2018 – Jul 2019 (**Completed**)
Main SV

Project Title: *Esterification of palm fatty acid distillate (PFAD) using sulfated tin oxide catalysts prepared via different synthesis methods for biodiesel production*

18. Erica Syril (AS253 – 2017442618)
Mar 2018 – Jul 2019 (**Completed**)
Main SV

Project Title: *Efficient biodiesel production through esterification of palm fatty acid distillate using sulfated iron oxide catalysts*

19. Nur Nabihah binti Mohammad Fauzi (AS245 – 2016631284)
Mar 2018 – Jul 2019 (**Completed**)
Main SV

Project Title: *Biodiesel production via esterification of palm fatty acid distillate over superacid SO_4^{2-}/SnO_2 catalyst*

20. Nurul Fazeera binti Shahrman Teruna (AS202 – 2017411854)
Sep 2019 – Jul 2020 (**Completed**)
Main SV

Project Title: *Combustion synthesis of sulfated CaO nanocatalysts for transesterification of non-edible Ceiba Petandra oil*

21. Nur Irdina Syahirah binti Abdul Ghani (AS202 – 2017411818)
Sep 2019 – Jul 2020 (**Completed**)
Main SV

Project Title: *Various synthesis method of sulfonated SnO_2 catalysts for esterification of PFAD feedstock into biodiesel*

22. Nursyaliza binti Elias (AS253 – 2017411818)
Feb 2020 – Jan 2021 (**Completed**)
Main SV

Project Title: *Review on catalytic deoxygenation of various feedstocks and technologies for green fuel production*

23. Intan Nur Ikhma Hidayah Binti Mohammad (AS245 – 2018248864)
Oct 2020 – Aug 2021 (**Completed**)
Main SV

Project Title: *Review on catalytic deoxygenation for green fuels production*

24. Mohamad Norsyahmi Bin Mohd Azmi (AS253 – 2018264508)
Oct 2020 – Aug 2021 (**Completed**)
Main SV

Project Title: *Review on catalytic deoxygenation using nickel-based catalysts*

25. Muhammad Firdaus Bin Abdul Rafi (AS245 – 2018262984)
Feb 2021 – Feb 2022 (**Completed**)

Main SV

Project Title: *Catalytic deoxygenation of oleic acid into renewable diesel using various graphitic carbon nitride-based catalysts*

26. Nur Syammimie Binti Mohd Salihim (AS253 – 2020793685)
Oct 2021 – Aug 2022 (**On-going**)

Main SV

Project Title: *In-situ synthesis of Ni supported Al₂O₃ catalysts via self-propagating combustion method for deoxygenation to produce renewable diesel*

27. Eve Nur Jannatul Husna Binti Mohd Razuwi (AS253 – 2020980819)
Oct 2021 – Aug 2022 (**On-going**)

Main SV

Project Title: *Catalytic deoxygenation of palm kernel oil into bio-jet fuel using Ni-Co supported spent coffee bean residue*

28. Mira Afiqah Binti Rhyme (AS245 – 2019252812)
Oct 2021 – Aug 2022 (**On-going**)

Main SV

Project Title: *Synthesis and characterisation of Ni doped CuO catalysts for deoxygenation to produce renewable diesel*

29. Nur Ain Shuhada binti Rosli (AS222 – 2019252854)
Mac 2022 – Feb 2023 (**On-going**)

Main SV

Project Title: *Synthesis and characterisation of Ni doped ceria nanocatalysts for deoxygenation of waste cooking oil into renewable hydrocarbon-like fuels*

30. Hani Nadhirah binti Hasri (AS222 – 2019268718)
Mac 2022 – Feb 2023 (**On-going**)

Main SV

Project Title: *Synthesis and characterisation of Ni/g-C₃N₄ catalysts for deoxygenation of palm kernel oil into renewable hydrocarbon-like fuels*

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