

Curriculum Vitae



Dr. Mohd Lokman Ibrahim

Senior Lecturer

School of Chemistry & Environment,
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CURICULUM VITAE
DR. MOHD LOKMAN IBRAHIM

1. PERSONAL

Date/Place of Birth : 25th of June 1986 / Machang, Kelantan, Malaysia

Citizenship : Malaysian

Marital Status : Married with two childrens

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Current Position : Senior Lecturer, UiTM Foundation Centre

Field of Expertise : Catalysis, Renewable Energy and Analytical Chemistry.

Google Scholar :
<https://scholar.google.com.my/citations?t=123&user=LvZCMysAAAAJ&hl=en>

Scopus : <https://www.scopus.com/authid/detail.uri?authorId=56109432600>

Research Gate : https://www.researchgate.net/profile/Mohd_Lokman_Ibrahim

PRISMA : <http://prisma.uitm.edu.my/prisma/?doi=DirectoryStafByIdDetail&staffid=Vmtab2QxUnRValpXVkJaT11YcFdSbFpzYUhaTIZUbFNVRIF3UFE9PQ>

Academic Qualifications:

Institution	Degree	Year
Department of Chemistry, Faculty of Science, Universiti Putra Malaysia (UPM)	Ph.D. (Catalysis)	2016
Department Chemistry, Faculty of Science, Universiti Teknologi Malaysia (UTM)	Master of Science (Analytical Chemistry)	2011
Department Chemistry, Faculty of Science, Universiti Teknologi Malaysia (UTM)	Bachelor of Science (Chemistry)	2008

Pre-University Qualifications:

Institution	Qualification	Year
Sekolah Menengah Kebangsaan Seri Intan, Machang, Kelantan, Malaysia	a) Penilaian Menengah Rendah (PMR)	2001
	b) Sijil Pelajaran Malaysia (SPM)	2003
College MARA Kulim, Kedah, Malaysia	a) Matriculation	2005

Career History

Senior Lecturer, UiTM Shah Alam (Since 16th Jan 2017)

Senior Lecturer, UiTM Foundation Centre (27th June 2016 – 15th January 2017).

Research Officer Institute Pharmaceutical & Nutraceutical Malaysia, Ministry of Science, Technology and Innovation (1st February 2010 – 31th August 2012).

Awards, Medals and Fellowships

1. Gold Medal Award: Innovation, Invention & Design Exposition, 2017
2. Silver Medal Award: Innovation, Invention & Design Exposition, 2017
3. Bronze Medal Award: Innovation, Invention & Design Exposition, 2017
4. Postgraduate Chemistry Medal Award – Anugerah Tan Sri Ong Kee Hui. Given by Institut Kimia Malaysia, Malam Kimia, Eastin Hotel, Petaling Jaya, 2 December 2016.
5. Best Poster Award – International Conference on the Advancement of Materials and Nanotechnology (ICAMN IV), Research Title: A New Polycyclic Carbon-Based Solid Acid Catalyst from Palm Empty Fruit Bunch for Esterification of High FFA Waste Oil in Supercritical Methanol. Organized by Centre for Nanomaterials Research Institute of Science, Bayview Hotel, Langkawi, Malaysia. 9th-11th November 2016.
6. Anugerah Pingat Emas Doktor Falsafah. (*UPM's Ph.D Gold Medal Award*) 40th UPM's Convocation, 2016, Universiti Putra Malaysia.
7. Anugerah Graduan Cemerlang (*Excellent Graduate Award*), Fakulti Sains, Universiti Putra Malaysia, 2016.
8. Silver Medal Award. - PRPI 14, Pameran Rekacipta, Penyelidikan dan Inovasi 2014. (Ibrahim M. Lokman, Umer Rashid, Taufiq-Yap, Y.H.) Research entitled: Solvothermal Technology for Biodiesel Production.
9. Young Lecturer's Scheme, Universiti Teknologi MARA, Malaysia. 2012 – 2016.
10. Skim Latihan Akademik IPTA (SLAI), Ministry of Higher Education, Malaysia. 2012-2016.
11. Scholarship for undergraduate student, Department of Public Service Malaysia, JPA. 2005-2008.

2. RESEARCH GRANTS

No.	Period	Files	Research Grants	Title	Role	Status
1	July 2017- june 2019	600-irmi/myra 5/3/lestari (054/2017)	Lestari (RM20,000.00)	Preparation of biochar solid acid catalyst for low-cost biodiesel production from palm fatty acid distillate	Project leader	On going
2	Jan 2018- december 2019	600- irmi/perdana 5/3 bestari (088/2018)	Bestari perdana (RM25,000.00)	Synthesis of metal -doped biomass derived heterogeneous solid acid catalysts for biodiesel production from waste oils	Project leader	On going
3	October 2017- september 2019	600-irmi/dana 5/3/bestari (050/2017)	Bestari (RM50,000.00)	Hydrothermal reconstructed solid based mgal layered double hydroxide for biodiesel application from jatropha/ palm oil	Project member	On going
4	July 2017- june 2019	600-irmi/dana kcm 5/3/lestari (118/2017)	Lestari (RM20,000.00)	One-pot surfactant-free synthesis of non-agglomerated and thermally stable titanium	Project member	On going

				silicate by molecular entrapments of starches		
5	October 2017- september 2019	<u>600-irmi/dana kcm 5/3/lestari (220/2017)</u>	Lestari (rm20,000.00)	The effect of oxygen/nitrogen functionalities on the capacitive behavior of carbon-based nanocomposite	Project member	On going
6	July 2017- june 2019	<u>600-irmi/myra 5/3/lestari (078/2017)</u>	Lestari (RM20,000.00)	The study of structural and electrical properties of methyl cellulose-based alkaline polymer electrolyte.	Project member	On going
7	July 2017- june 2019	<u>600-IRMI/myra 5/3/LESTARI (075/2017)</u>	Lestari (RM20,000.00)	Fabrication of bimetallic-chitosan composite electrodes and its application in the electrochemical oxidation of synthetic dyes	Project member	On going

3. SUPERVISIONS

3.1 Doctor of Philosophy

As Main Supervisor

N/A

As Co-Supervisor

No.	Name	Title	Year
1	Rose Fadzilah Abdullah	Synthesis of biomass based basic catalyst for biodiesel production from waste cooking oil	2018 - Current

3.2 Master of Sciences

As Main Supervisor

No.	Name	Title	Year
1.	Izzaidah Bt Riman	Catalytic Desulfurization Technique of Tire Oil	Mac 2018 - Current
2.	Salma Izati Bt Sinar Mahsuri	Synthesis, Characterization and Catalytic evaluation of ZnO/Al ₂ O ₃ as photocatalyst in degradation of methylene	Mac 2018 - Current
3.	Aunie Afifah Bt Abdul Mutalib	Preparation of heterogeneous metal-doped catalyst for biodiesel production from waste oils.	Sept 2018 - Current

As Co-Supervisor

No.	Name	Title	Year
1.	Balkis Bt Hazmi Main SV: Dr Umer Rashid, UPM	Magnetic base catalyst from rice husk for synthesis of biodiesel	2018 - current
2.	Nor Aishah Ab Malek Main SV: Dr Yong, UiTM	The optimization of pyrolysis of composite of palm kernel shell and blood cockle shell to synthesis biochar for immobilisation of Pb in shooting range soil	2018- current

3.3 Undergraduate Research Project

No.	Name	Title	Year
1	Alena Binti Azmi	Synthesis Of Efb-Derived Solid Acid Catalyst For Biodiesel Production From Palm Fatty Acid Distillate	2017
2	Ammar Bin Khairuddin	Potassium Hydroxide Supported On Empty Fruit Bunch-Derived Catalyst For Transesterification Of Used Frying Oil	2017
3	Durratun Nasuha Mohamad	Preparation And Characterization Of Heterogenous Oil Palm Frond Derived Base Catalyst For Biodiesel Production From Waste Cooking Oil	2017
4	Mohd Amirul Yunos		2017
5	Syafiqah Iylia Binti Japar	Preparation & Characterization Of Rubber Seed Shell Heterogenous Solid-Acid Catalyst Derived From Palm Fatty Acid Distilate	2017
6	Myzathul Azrin Arbain	Biochar-So ₃ h Solid Acid Catalyst For Esterification Of Palm Fatty Acid Distillate (Pfad)	2018
7	Nurhasliza Binti Abdullah	Photocatalytic Degradation Of Methylene Blue By Immobilized TiO ₂ : Optimization Process	2018
8	Syid Nor Omar Bin Syid Mat	Preparation And Characterization Of Heterogenous Biochar Derived Base Catalyst	2018

9	Nur Syafiqah Bt Che Kamarudin	Biochar Impregnated Cao-Mgo Solid Based Catalyst For Trans-Esterification Of Waste Cooking Oil	2018
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4. PUBLICATIONS

4.1 Papers Published in Refereed Journals

1. Mohammed Abdillaha Ahmad Farida Mohd Ali Hassanab Yun Hin Taufiq-Yap **Mohd Lokman Ibrahim** Muhamad Yusuf Hasanbg Ahmad Amiruddin Mohd Alia Mohd Ridzuan Othmana Yoshihito Shiraif. (2018) Kinetic and thermodynamic of heterogeneously K₃PO₄/AC-catalysed transesterification via pseudo-first order mechanism and Eyring-Polanyi equation. *Fuel*. 232: 653-658 (IF: 4.908, Q1)
2. Nasar Mansir, Siow Hwa Teo, **M. Lokman Ibrahim**, Taufiq-Yap Yun Hin. (2017). Synthesis and application of waste egg shell derived CaO supported W-Mo mixed oxide catalysts for FAME production from waste cooking oil: Effect of stoichiometry. *Energy Conversion and Management*. 151: 216-226. (IF: 5.589, Q1)
3. Mohammed Abdillaha Ahmad Farid, Mohd Ali Hassan, Yun Hin Taufiq-Yap, **Mohd Lokman Ibrahim**, Mohd Ridzuan Othman, Ahmad Amiruddin Mohd Ali, Yoshihito Shirai. (2017). Production of methyl esters from waste cooking oil using a heterogeneous biomass-based catalyst. *Renewable Energy*. 114: 638-643 (IF: 4.357, Q1)
4. O. Nur Syazwani, **M. Lokman Ibrahim**, Wahyudiono, Hideki Kanda, Motonobu Goto, Y.H. Taufiq-Yap. (2017). Esterification of high free fatty acids in supercritical methanol using sulfated angel wing shells as catalyst. *J. of Supercritical Fluids*. 124:1-9. (IF: 2.579, Q1)
5. Nasar Mansir, Yun Hin Taufiq-Yap, Umer Rashid, **Ibrahim M. Lokman**. (2017). Investigation of heterogeneous solid acid catalyst performance on low grade feedstocks for biodiesel production: A review. *Energy Conversion and Management*. 141:171-182. (IF: 5.589, Q1)
6. Ezzahh-Mahmudah, S., **Ibrahim M. Lokman**, Mohd Izham Saiman, Yun Hin Taufiq-Yap (2016). Synthesis and characterization of Fe₂O₃/CaO derived from Anadora Granosa for methyl ester production. *Energy Conversion and Management*. 126: 124-131. (IF: 4.801, Q1)
7. **Ibrahim M. Lokman**, Umer Rashid, Robiah Yunus, and Yun Hin Taufiq-Yap. (2014). Carbohydrate-derived Solid Acid Catalysts for Biodiesel Production from Low-Cost Feedstocks: A Review. *Catalysis Reviews: Science and Engineering*, **56**: 187-219. (IF: 7.526, Q1)
8. **Ibrahim M. Lokman**, Umer Rashid, Yun Hin Taufiq-Yap. (2015). Meso- and macroporous sulfonated starch solid acid catalyst for esterification of palm fatty acid distillate. *Arabian Journal of Chemistry*. **9**:179-189. (IF:3.613, Q1)
9. **Ibrahim M. Lokman**, Umer rashid, Yun Hin Taufiq-Yap. (2015). Production of Biodiesel from Palm Fatty Acid Distillate using Sulphonated-Glucose Solid Acid Catalyst: Characterization and Optimization. *Chinese Journal of Chemical Engineering*. **22**: 1857-1864. (IF: 1.207, Q3)

10. **Ibrahim M. Lokman**, Umer Rashid, Yun Hin Taufiq-Yap, Robiah Yunus. (2015). Methyl ester production from palm fatty acid distillate using sulfonated-glucose derived solid acid catalyst. *Renewable Energy*. **81**: 347-354. (IF: 4.357, Q1)
11. **Ibrahim M. Lokman**, Umer Rashid, Zulkarnain Zainal, Yun Hin Taufiq-Yap. (2014). Microwave-assisted biodiesel production by esterification of palm fatty acid distillate. *Journal of Oleo Science*. **63**(9): 849-855. (IF:1.108, Q3)
12. **Ibrahim M. Lokman**, Umer Rashid, Yun Hin Taufiq-Yap. (2015). Microwave-assisted Methyl Ester Production from Palm Fatty Acid Distillate over Heterogeneous Carbon-based Solid Acid Catalyst. *Chemical Engineering Technology*. 38: 1837-1844. (IF: 2.385, Q2)
13. **Ibrahim M. Lokman**, Motonobu Goto, Umer Rashid, Yun Hin Taufiq-Yap. (2016). Sub- and supercritical esterification of palm fatty acid distillate with carbohydrate-derived solid acid catalyst. *Chemical Engineering Journal*. 284: 872-878. (IF: 5.310, Q1)
14. **Ibrahim M. Lokman**, Mohd. Yusof, Alias and Buang, Nor Aziah and Yean, Lee Sze and (2009). The use of multi-walled carbon nanotubes as possible carrier in drug delivery system for aspirin. In: AIP Conference Proceedings. *American Institute of Physics, USA*, 390 -394. ISBN 978-073540673-5.
15. Siti Hajar Alias, Nor Aziah Buang, Alias Mohd Yusof and **Mohd Lokman Ibrahim**. (2014). Aspirin adsorption on multi-walled carbon nanotubes and its release characteristics in simulated body fluid. *Int. J. Nanoelectronics and Materials*. **7**: 35-43.
16. Fatah H. Alhassan, Umer Rashid, Robiah Yunus, Kamaliah Sirat, **Ibrahim M. Lokman** & Yun Hin Taufiq-Yap. (2015). Synthesis of Ferric–Manganese Doped Tungstated Zirconia Nanoparticles as Heterogeneous Solid Superacid Catalyst for Biodiesel Production From Waste Cooking Oil. *International Journal of Green Energy*. 12: 987–994. (IF:1.06, Q3)

4.2 Papers Published In Proceeding of Conferences, Seminar and Workshops

1. **M. Lokman Ibrahim**, Motonobu Goto, Umer Rashid, Ahmad Farabi Mohd Saman, Yun Hin Taufiq-Yap. A New Polycyclic Carbon-Based Solid Acid Catalyst from Palm Empty Fruit Bunch for Esterification of High FFA Waste Oil in Supercritical Methanol. Organized by Centre for Nanomaterials Research Institute of Science, The 4th International Conference on the Advancement of Materials and Nanotechnology (ICAMN IV). Bayview Hotel, Langkawi, Malaysia. 9th-11th November 2016
2. **Ibrahim M. Lokman**, Saman A.F., Umer Rashid, Taufiq-Yap, Y.H. Quality evaluation of methyl ester derived from palm fatty acid distillate. The 6th Basic Science International Conference. Malang, Indonesia. 2-3 March 2016.
3. **Ibrahim M. Lokman**, Umer Rashid, Taufiq-Yap, Y.H. Synthesis of Glucose-Derived Solid Acid Catalyst for Production of Biodiesel from Palm Fatty Acid Distillate. The Seventh Jordan International Chemical Engineering (JICHe 07) Conference. 4th to 6th November 2014. Amman, Jordan.
4. **Ibrahim M. Lokman**, Umer Rashid, Taufiq-Yap, Y.H. Methanolysis of palm fatty acid distillate (PFAD) using starch-derived solid acid catalyst: Optimization process of reaction parameters. Malaysia International Conference on Oils and Fats 2014. Hotel Bangi-Putrajaya. August 20-21, 2014.
5. **Ibrahim M. Lokman**, Umer Rashid, Taufiq-Yap, Y.H. Low-cost biodiesel production from palm fatty acid distillate (PFAD) using glucose-derived solid acid catalyst: Optimization process of reaction parameters. International Symposium on EcoTopia Science. Nagoya Universiti, Nagoya, Japan. December 13-15, 2013.

6. **Ibrahim M. Lokman**, Alias Mohd Yusof and Nor Aziah Buang. Optimization of Acid Ratios for Liquid Phase Oxidation of Multi-walled Carbon Nanotubes. 4th International Conference on Recent Advances in Materials, Minerals, and Environment and 2nd Symposium on Materials and Processing, Batu Ferringhi, Penang, 1-3 June 2009.
7. **Ibrahim M. Lokman**, Alias Mohd Yusof, and Nor Aziah Buang. Application of Multi-walled Carbon Nanotubes as Aspirin Delivery System. The Seventeenth Annual International Conference on Composite / Nanoengineering, Hawaii, USA, 26th July – 1st August 2009.
8. **Ibrahim M. Lokman**, Alias Mohd Yusof, and Nor Aziah Buang. Effect of Reflux and Sonication Methods on the Adsorption of Aspirin onto *f*-MWCNTs as Drug Carrier System. Second International Conference and Workshops on Basic and Applied Sciences and Regional Annual Fundamental Science Seminar 2009, Johor.

4.3 Books/Chapter in Book

1. Ibrahim M. Lokman, Mohd. Yusof, Alias and Buang, Nor Aziah and Yean, Lee Sze and (2009). The use of multi-walled carbon nanotubes as possible carrier in drug delivery system for aspirin. In: AIP Conference Proceedings. American Institute of Physics, USA, 390 -394. ISBN 978-073540673-5.

4.4 Thesis

1. Synthesis and Characterization of Alkyl Alcohol. Final Year Project Report, Universiti Teknologi Malaysia, 2008.
2. Functionalized multi-walled carbon nanotubes for salicylic acid and pseudoephedrine drug carrier system, M. Sc. thesis, Universiti Teknologi Malaysia, 2011.
3. Synthesis and Characterization of Carbohydrate-derived Solid Acid Catalyst for Biodiesel Production from Palm Fatty Acid Distillate, Ph.D. Thesis, Universiti Putra Malaysia, 2016.

5. TEACHING AND EDUCATION

- CMT674;** (January 2017- current) Catalysts and Reactor Application (3 credits hours) – School of Chemistry and Environment, Faculty of Applied Science, UiTM Shah Alam, Selangor, Malaysia.
- CHM431;** (September 2017 – Current) Physical Chemistry I (Laboratory Experimentation) – Faculty of Applied Science, UiTM Shah Alam, Selangor, Malaysia.
- CMT605;** (Januari – August 2017) Colloid (Laboratory Experimentation) – School of Chemistry and Environment, Faculty of Applied Science, UiTM Shah Alam, Selangor, Malaysia.
- CHM092;** (2016) Fundamental in Chemistry (Part 1) – UiTM Foundation Centre, Dengkil, Selangor, Malaysia
- CHM096;** (2016) Fundamental in Chemistry (Part 2) – UiTM Foundation Centre, Dengkil, Selangor, Malaysia

7. REFEREES

Professor Dr. Taufiq Yap Yun Hin

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Selangor, Malaysia.

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