

FAIZUAN BIN ABDULLAH (Ts. ChM. Dr.)**Senior Lecturer**

Department of Chemistry,
 Faculty of Science, Universiti Teknologi Malaysia
 81310 UTM Johor Bahru, Johor, Malaysia.
 Contact: +60139197757
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- Head of Environmental Chemistry Research Group (EnviChemi)
- Deputy Technical Manager of Pusat Perkhidmatan Analisis (PPA)
 Faculty of Science UTM

**PROFESSIONAL QUALIFICATIONS**

2011 – 2016



Doctor of Philosophy (Chemistry) (CGPA: 4.00/4.00; With **Certificate of Excellence Award**)

Department of Chemistry, Faculty of Science, Universiti Teknologi Malaysia, Johor, Malaysia.
Project: Removal of Selected Heavy Metals from Living Green Mussel Via Catalytic Demetallisation Technique

2007 – 2010



Bachelor of Science (Industrial Chemistry) (CGPA: 3.46/4.00)

Department of Chemistry, Faculty of Science, Universiti Teknologi Malaysia, Johor, Malaysia.
Project: Correlation Study Between Selected Water Quality Parameters and Landuse at Johor Straits Using Geographical Information System (GIS)

2007



MARA-UTM Express Program (Foundation Program) Faculty of Science, Universiti Teknologi Malaysia, Johor, Malaysia.

Science: Physic & Chemistry

2005 – 2006



Sijil Pelajaran Malaysia (SPM 2006) (10A)

Mara Junior Science College Pengkalan Chepa, Kota Bharu, Kelantan Malaysia.

CURRICULUM VITAE

AWARDS AND SCHOLARSHIP

2020	Silver Award at Industrial Art & Technology Exhibition (INATEX 2020) for NemaMed™ Anthelmintic Cream (Team Leader)
2020	Silver Award at New Academia Learning Innovation (NALI 2020) for Different Thinking Hat Jigsaw Group Technique for Sampling and Sample Preparation Teaching and Learning (Team Leader)
2017	Runner-Up Winner of Anugerah Harta Intelek Negara (National Intellectual Property Award) (Category of Patent)
2017	Best Project Award Johore Institut of Strategic Innovation (IISJ)
2016 - 2017	Commercialization Grant - HIP2 Concept to Commercialization Gap Fund (CCGF)- Platcom Ventures (RM437,500.00)
2016- 2017	Knowledge Transfer Grant - Johore Institut of Strategic Innovation (IISJ) Research Grant
2016	Certificate of Excellence (Grade B1) Achievement in PhD Thesis
2013	Gold Award - Malaysia Technology Expo
2012	Interactive Invention Award - Industrial and Technology Exhibition (INATEX) UTM
2012	Gold Award - Industrial and Technology Exhibition (INATEX) UTM
2012 - 2014	Mybrain Scholarship Award , Kementerian Pengajian Tinggi Malaysia
2011 - 2012	Doctoral Scholarship Zamalah UTM Award
2010	Winner of UTM Debate Competition Piala TNC HEMA 2010 organized by Kelab De Pikir, UTM
2010	Potential Alumni Award During UTM Pre-Graduation Night
2010	Best Presenter Award during Final Year Project Symposium, Faculty of Science UTM
	Dean's List Award for Semester 5 of Bachelor Degree: 3.63
	Dean's List Award for Semester 6 of Bachelor Degree: 3.83
2007 - 2010	Scholarship Award - Express MARA-UTM

RESEARCH INTEREST

- Environmental Chemistry
- Electrochemistry
- Spectroscopy
- Water Quality
- Air Pollution Study
- Sensor Development

PUBLICATIONS HIGHLIGHT

Since January 2012-January 2021; (Source: Google Scholar)

Highest citation of a single paper: **32**, Total citation: **74**, Average citation/published item: **5.69**, *h*-index: **3**

Published item: **12** (Journal Article: **11**; Book Chapter: **1**)

Scopus Author ID: 55053616200

Researcher ID: A-1042-2017

ORCID: 0000-0002-9545-0316

CURRICULUM VITAE

PUBLICATIONS

2020

1. Furmulu, Mubasher; **Abdullah, Faizuan**; Azelee, Ihsan Wan; Ismail, Razali; Omar, Fuaad; Prastyo, Dedy Dwi; Syafiuddin, Achmad, (2020). *Enhancement of mercury removal by utilizing catalytic chelation technique*. Biointerface Research in Applied Chemistry Volume 10, Issue 5, 2020, 6354 – 6364.
2. Wahab, Roswanira Abdul; Elias, Nursyafiqah; **Abdullah, Faizuan**; Ghoshal, Sib Krishna, (2020). *On the taught new tricks of enzymes immobilization: An all-inclusive overview*. Reactive and Functional Polymers. (Volume 152, July 2020, 104613).
3. Aweng Eh Rak; Siti Nor Aini Md Nasir; Maryana Mohammad Nor; Dee Koh Han; Suganthi Appalasamy; Faizuan Abdullah; Rozidaini Mohd. Ghazi (2020) *Proximate analysis and fatty acid of Corbicula fluminea (C. fluminea) tissue in Kelantan, Malaysia*
4. Zamri, Siti Sarah; Mahadi, Mahani; **Abdullah, Faizuan**; Syafiuddin, Achmad; Hadibarata, Tony (2020). *Evaluation of protein content and antioxidant activity of edible bird's nest by various methods*. Biointerface Research in Applied Chemistry. Volume 10, Issue 2, 2020, 5277 - 5283
5. Han, Dee Koh; Appalasamy, Suganthi; Nasir, Siti Nor Aini Md; **Abdullah, Faizuan**; Nor, Maryana Mohamad; Rak, Aweng Eh (2020). *High quality of bacterial dna extraction from Corbicula fluminea (Muller, 1774) tissue in Kelantan*. Malaysian Journal of Fundamental and Applied Sciences. (16 (2), 161-165)

2019

6. Dee, K. H., **Abdullah, F.**, Md Nasir, S. N. A., Appalasamy, S., Mohd Ghazi, R., and Eh Rak, A. (2019). *Health risk assessment of heavy metals from smoked Corbicula fluminea collected on Roadside Vendors at Kelantan, Malaysia*. BioMed research international, 2019.
7. Dee Koh, H., **Abdullah, F.**, Ibrahim, I. A., Rozaki, N. I., Md Nasir, S. N. A., Suganthi, A., et al. (2019). *Heavy metals concentration in "etak" tissue at different processing stages*. Journal of Tropical Resources and Sustainable Sciences, 7(1), 36-39.
8. **Faizuan Abdullah**, Siti Nor Aini Md. Nasir, Dee Koh Han, Suganthi Appalasamy, Maryana Mohamad Nor & Aweng Eh Rak, (2018) *Potential of Leucas zeylanica Extract to Eliminate E. coli and S. aureus in Corbicula fluminea ("Etak") Tissue*. Malaysian Journal of Fundamental and Applied Sciences. (Vol. 15, No. 4 (2019) 597-599).

2018

9. **Faizuan Abdullah**, Abdull Rahim Mohd Yusoff, Wan Azelee Wan Abu Bakar, Razali Ismail, Achmad Syafiuddin, (2018). *Preparation, Characterization, and Lead Removal Appraisal of Zinc Aluminate Prepared from Different Temperature*. Journal of the Chinese Chemical Society. (2018;65:1199–1209).

CURRICULUM VITAE

10. Kogila Vani Annammala, Anand Nainar, Abdul Rahim Mohd Yusoff, Zulkifli Yusop, Kawi Bidin, Rory Peter Dominic Walsh, William H. Blake, **Faizuan Abdullah**, Dhinesh Sugumaran and Khuneswari Gopal Pillay (2018). *Environmental Forensics: A Multi-Catchment Approach to Detect Origin of Sediment Featuring Two Pilot Projects in Malaysia. Improving Flood Management, Prediction and Monitoring: Case Studies in Asia Community, Environment and Disaster Risk Management*, Volume 20, 49-60.

2014

11. **Faizuan Abdullah**, A. R. M. Y., Wan Azelee Wan Abu Bakar, Razali Ismail, Dwi Priya Hadiyanto. (2014). *Removal of Selected Heavy Metals from Green Mussel Via Catalytic Oxidation*. The Malaysian Journal of Analytical Sciences, 18(2), 271 - 283.

2012

12. Hadibarata, T., **Abdullah, F.**, Yusoff, A., Ismail, R., Azman, S. and Adnan, N. (2012). *Correlation Study between Land Use, Water Quality, and Heavy Metals (Cd, Pb, and Zn) Content in Water and Green Lipped Mussels Perna Viridis (Linnaeus.) at the Johor Strait*. Water, Air, & Soil Pollution, 223(6), 3125-3136.

RESEARCH GRANTS

1. Molluscure Seafood Wash (Type: Prototype Development Fund, Role: Project Leader, Amount: RM20,000.00, Status: Active)
2. *Leucas zeylanica* As A Potential Natural Anthelmintic Compounds : Preparation And Characterization (Type: Research University Grant, Role: Project Leader, Amount: RM20,000.00, Status: Completed)
3. Aplikasi Modul Kesedaran Air Bagi Menerapkan Kefahaman Tentang Kepentingan Air Kepada Pelajar Sekolah Menengah (Type: Business Entity Grant, Role: Project Leader, Amount: RM2,999.00, Status: Completed)
4. Optimization of Extraction, Isolation, and Bioactivity of *Ananas comosus* (Type: Research University Grant, Role: Member, Amount: RM20,000.00, Status: Active)
5. Engineering and Microstructural characteristics Of Lateritic Soil Treated with Ordinary Portland Cement Under cyclic Saturated (Wetting) And unsaturated (Drying) Conditions. Type: Fundamental Research Grant Scheme, Role: Member, Amount: RM112,000.00, Status: Active)
6. Application of Stem Activity in Learning the Basic Concept Of Water Treatment For Secondary School Students (Type: Networking Grant, Role: Member, Amount: RM2,000.00, Status: Completed)
7. Student's Attitude, Interest and Motivation towards Chemistry results from Active Learning Activities (Type: Networking Grant, Role: Member, Amount: RM10,000.00, Status: Completed)
8. New Norm of Science Knowledge Transfer Model using Chemfest: Climate Change and Earth Science Module (Type: Networking Grant, Role: Member, Amount: RM3,000.00, Status: Completed).

CURRICULUM VITAE

INTELLECTUAL PROPERTIES

1. **Patent:**
 - I. An Anthelmintic Composition (PI 2019007897)
 - II. A Method and An Apparatus for Removing Heavy Metal from Aquatic Invertebrates via Catalytic Oxidation Technique (PI2015704425).
2. **Copyright**
 - I. Controller Logic For Molluscure® System (IP/CR/2016/1215)
 - II. Modul Aktiviti Water Sense™ (LY2020006187)
3. **Trademark**
 - I. Logo of Molluscure® (2016069515)

PROFESSIONAL BODIES

1. Member of Persatuan Sains Analisis Malaysia, ANALIS. (A574)
2. Affiliate Member of Young Scientist Network - Akademi Sains Malaysia
3. Member of Royal Society of Chemistry (RSC) (680830)
4. Member of International Water Association (IWA) (1616448)
5. Member of American Chemical Society (ACS) (31841438)
6. Member of Institut Kimia Malaysia (IKM) (A3980/6740/14)
7. Member of Malaysian Water Association (MWA) (OM 2313)
8. Member of Malaysian Board of Technology (MBOT) (GT19070393)

SOCIAL INVOLVEMENTS

1. **Secretary of Scientific Committee** for Sungai Kim Kim Pasir Gudang Illegal Waste Dumping Incident appointed by Ministry of Environment, Science and Technology, Energy and Climate Change Malaysia (MESTECC).
2. **President** of Persatuan Saintis Muslim Intelek Malaysia (AIMS Malaysia) (PPM-006-03-01112018)
3. **Secretary** of Kelab Belia Generasi Proaktif Iskandar Puteri (GENPRO-IP).
4. **Member** of Johor Youth Council appointed by Chief Executive Council of Youth, Sports and Entrepreneurial of Johor State
5. **Advisor (Pembimbing)** of Sahabat YADIM appointed by Yayasan Dakwah Islamiah Malaysia (YADIM) 2019
6. **Secretary** of Kelab Usahawan Agro Sains (PPM-006-03-19082018)
7. **Assistant Secretary** of Kelab Cakna Sahabat Kuala Krai (PPM-017-03-03102018)
8. **Innovation Mentor** of Sekolah Kebangsaan Sultan Yahya Petra (1) Kuala Krai, Kelantan.

CURRICULUM VITAE

WORKING EXPERIENTS

January 2019 - Present

Universiti Teknologi Malaysia (Department of Chemistry, Faculty of Science)

Senior Lecturer

- Academic teaching, research and innovation, consultations

August 2018 - December 2018

Future Smart Ventures Sdn. Bhd.

Executive of Technology (Intellectual Properties)

- Managing the intellectual properties filing, Patent Search for Chemistry Based Technology, Consulting on the intellectual properties, Preparing for intellectual properties filing documents.

August 2017 - July 2018

Faculty of Earth Science, Universiti Malaysia Kelantan (UMK)

Post-Doctoral Researcher

- Assisting the research activities, Guiding the students for the lab works, Consulting on the technology, Writing publications, Preparation of intellectual properties filing.

April 2016 - July 2017

Focus Industrial System Sdn. Bhd. (Industrial Partner of CCGF Grant)

Technology Specialist

- Designing and preparing the industrial scale of Molluscure® system, Consulting on the technology, Research, development & commercialization.

September 2010 - January 2011

Centre of Environmental Sustainability and Water Security (IPASA) UTM

Research Assistance (RA)

- Analyzing chemical, physical, and microbiological properties of water samples.

May 2009 - July 2009

Pusat Perkhidmatan Analisis (PPA) Faculty of Science UTM

Trainee

- Sampling and analysis for water quality and heavy metals content, preparations of documents for ISO 17025 accreditation for the laboratory.

CURRICULUM VITAE

REFEREES

- Professor Datuk Ts. Dr. Ahmad Fauzi Ismail
Vice Chancellor
Universiti Teknologi Malaysia (UTM),
81310, Johor Bahru, Johor.
afauzi@utm.my
Tel: +6019 7775545
- Professor Dr. Abdull Rahim Mohd Yusoff
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81310 Johor Bahru, Johor.
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