

MOHD ARMI BIN ABU SAMAH



- KULLIYAH OF SCIENCE
- IIUM Kuantan Campus
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ACADEMIC QUALIFICATION

- Environmental System and Process
- Master of Science (Environmental System and Process)
- Bachelor of Science (Environmental)

TEACHING RESPONSIBILITIES

ENTREPRENEUR 1	2018/2019 2019/2020
ENTREPRENEUR 2	2019/2020
ENVIRONMENTAL LAWS AND POLICIES	2015/2016 2016/2017
HEALTH RISK ASSESSMENT	2018/2019
INDUSTRIAL HYGIENE	2017/2018 2018/2019 2019/2020 2020/2021
INDUSTRIAL TOXICOLOGY	2017/2018
NATURAL RESOURCE MANAGEMENT IN BIOTECHNOLOGY	2016/2017
OCCUPATIONAL SAFETY	2017/2018 2018/2019 2019/2020
OCCUPATIONAL, SAFETY AND HEALTH LEGISLATION AND MANAGEMENT	2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
OCEAN LAW AND POLICY	2015/2016
PROJECT SEMINAR	2019/2020
WASTE MANAGEMENT	2017/2018 2018/2019 2019/2020
WASTE MANAGEMENT AND USAGE	2015/2016 2016/2017

RESEARCH PROJECTS

In Progress

2019 - Present

Analysis of Blackwater Treatment of the Green Toilet System in Auto-City, Penang

- 2019 - Present** Prototype for Smart Green Composting Machine (SMART COMP)
- 2018 - Present** Pembentukan Dua Pelan Pengurusan (a) Pulau Babi Besar dan (b) Gugusan Kepulauan Lima dan Mertang, Johor
- 2018 - Present** Environmental Quality Report (EQR)
- 2018 - Present** DETERMINATION OF C:N RATIO ON IIUM FOOD WASTE FERTILIZER AND COMPARISON OF IT EFFECTS WITH SYNTHETIC FERTILIZER ON GROWTH PERFORMANCE OF WATER SPINACH (ipomoea aquatic)
- 2018 - Present** Preparation, characterization and physicochemical properties of graphene quantum dots - cellulose nanocrystals composites
- 2018 - Present** Food Waste Compost Analysis
- 2016 - Present** An Assessment of Ambient Airborne Particulate Matter(PM) Emissions At Construction Site In Selangor and its application to AERMOD model
- 2016 - Present** Bacteria Identification From Food Waste Composting
- 2016 - Present** Conservation of Malaysian horseshoe crabs-A step for sustainable fishery practice
- 2016 - Present** Accumulation of rare earth elements (REEs) in Pistia stratiotes (water lettuce) and Oreochromis niloticus (tilapia) in REEs industrial wastewater system.
- 2015 - Present** Bacterial-Assisted Composting (BAC) of Food Waste
- 2015 - Present** Feeding Mechanism in Adult Tropical Horseshoe Crab

Completed

- 2018 - -1** Food Waste Compost Analysis
- 2018 - -1** Environmental Quality Report (EQR)
- 2016 - -1** Accumulation of rare earth elements (REEs) in Pistia stratiotes (water lettuce) and Oreochromis niloticus (tilapia) in REEs industrial wastewater system.
- 2016 - 2018** Bacteria Identification From Food Waste Composting
- 2016 - 2019** An Assessment of Ambient Airborne Particulate Matter(PM) Emissions At Construction Site In Selangor and its application to AERMOD model
- 2016 - 2017** Enhancement of Pond Bottom Soil with Bottom Life forms to Minimise Effect of Climate Change on Marine Aquaculture Farm
- 2016 - 2017** Conservation of Malaysian horseshoe crabs-A step for sustainable fishery practice
- 2016 - 2019** Accumulation of rare earth elements (REEs) in Pistia stratiotes (water lettuce) and Oreochromis niloticus (tilapia) in REEs industrial wastewater system.

- 2015 - 2016** Enhancing Mass Production of Marine Copepods as Live Feed Supply for the Marine Aquaculture in Malaysia
- 2015 - 2017** Bacterial-Assisted Composting (BAC) of Food Waste
- 2015 - 2018** Feeding Mechanism in Adult Tropical Horseshoe Crab

PUBLICATIONS

Article

- 2020** [Determination of heavy metals concentration in food waste compost on root uptake of capsicum annuum L.](#) International Journal of Advanced Science and Technology , 29 (9s) pp.1612-1627
- 2020** [Quality air monitoring equipment: the review of air quality monitoring equipment.](#) International Journal of Advanced Science and Technology , 29 (9s) pp.1826-1835
- 2019** [Municipal solid waste management : towards the realization of sustainable management in the context of Sri Lanka's Kandy municipal council.](#) International Journal of Recent Technology and Engineering , 8 (1C2) pp.266-269
- 2019** [Development of OSH Risk Assessment in IIUM Orthopaedics Research Laboratory According to ISO/IEC 17025:2017 Accreditation..](#) International Journal of Recent Technology and Engineering (IJRTE) , 8 (1C2) pp.260-265
- 2019** [Food waste composting: natural fermentation method.](#) International Journal of Recent Technology and Engineering (IJRTE) , 8 (1C2) pp.250-254
- 2019** [Assessment of hydrological inspection using development low-cost boat application in University Sultan Zainal Abidin \(UniSza\) Lake, Terengganu, Malaysia.](#) International Journal of Recent Technology and Engineering (IJRTE) , 8 (2S3) pp.205-212
- 2019** [A review of challenges facing clinical water management in the Malaysian context.](#) International Journal of Recent Technology and Engineering , 8 (1C2) pp.308-313
- 2019** [Study of relationship between water quality parameters, selective heavy metals and radioactive elements content in rivers at Gebeng, Kuantan, Pahang, Malaysia.](#) Asian Journal of Chemistry , 31 (2) pp.433-437
- 2019** [Evaluation of green solution potentials of unripe banana \(musa\) sapientum\) peel biomass.](#) Acta Scientifica Malaysia (ASM) , 3 (1) pp.9-16
- 2019** [Evaluation of green solution potentials of unripe banana \(musasapientum\) peel biomass.](#) Acta Scientifica Malaysia (ASM) , 3 (1) pp.9-16
- 2019** [Heritage reclamation: focusing on Negeri Sembilan's Minangkabau cultural landscape.](#) International Journal of Recent Technology and Engineering (IJRTE) , 8 (1C2) pp.381-386
- 2019** [Community perception and participation of urban farming activities.](#) International Journal of Recent Technology and Engineering (IJRTE) , 8 (1C2) pp.341-345

- 2019** [Particulate matter \(PM 2.5\) at construction site: a review.](#) International Journal of Recent Technology and Engineering (IJRTE) , 8 (1C2) pp.255-259
- 2019** [Adsorption study on the removal of copper ions from aqueous solution using sodium hydroxide-modified Carica papaya peels.](#) Malaysian Journal of Analytical Sciences , 23 (6) pp.926-937
- 2019** [Extraction and characterization of microfibrillated and nanofibrillated cellulose from office paper waste = Pengekstrakan dan pencirian mikro fibril dan nanofibril selulosa daripada sisa kertas pejabat.](#) Malaysian Journal of Analytical Sciences , 23 (5) pp.901-913
- 2019** [Preparation and characterization of Poly \(lactic acid\) \(PLA\)/Polyamide 6 \(PA6\)/ Graphene Nanoplatelet \(GNP\) blends bio-based nanocomposites.](#) Materials Research Express , 6 (5) pp.1-8
- 2019** [A research on concentration and distribution of airborne particulate matter in Kuantan city.](#) International Journal of Recent Technology and Engineering , 8 (2S3) pp.288-292
- 2019** [Composition and generation of Municipal Solid Waste \(MSW\) in Malaysia: Balakong City case study.](#) Herald NAMSCA , 2019 (1) pp.152-158
- 2019** [Impact of Malaysia major flood to river geomorphology changes and total suspended solid using GIS technique.](#) Desalination and Water Treatment , 149 pp.242-257
- 2019** [Development of OSH risk assessment in IIUM orthopaedics research laboratory according to ISO/IEC 17025:2017 accreditation.](#) International Journal of Recent Technology and Engineering (IJRTE) , 8 (1C2) pp.260-265
- 2018** [An overview of radioisotopes study in water pollution.](#) International Journal of Engineering & Technology , 7 (2.29) pp.882-886
- 2018** [An overview of radioisotope study in water pollution.](#) International Journal of Engineering & Technology , 7 (2.29) pp.882-886
- 2018** [CHNS analysis towards food waste in composting.](#) Journal Clean WAS , 2 (1) pp.6-10
- 2018** [Environmental management on natural river based on water quality deterioration in Terengganu River Basin, Terengganu, Malaysia.](#) International Journal of Engineering & Technology , 7 (4.34) pp.132-136
- 2018** [Mobile apps application to improve safety and health knowledge, attitude and practice among university students..](#) Malaysian Journal of Medicine and Health Sciences , 14 (SP1) pp.47-55
- 2018** [The discovery of physical properties of food waste in composting process..](#) International Journal of Engineering & Technology , 7 (2.29) pp.460-468
- 2018** [Mobile apps application to improve safety and health knowledge, attitude and practice among university students.](#) Malaysian Journal of Medicine and Health Sciences , 14 pp.47-55
- 2017** [Study on accumulation of Fe, Pb, Zn, Ni and Cd in Nerita lineata and Thais bitubercularis from Tanjung Harapan and Teluk Kemang, Malaysia.](#) Journal CleanWAS , 1 (1) pp.6-16

- 2017** [Landslide susceptibility mapping: effect of spatial resolution towards the prediction of landslide prone area in a tropical catchment..](#) Chiang Mai Journal of Science , 44 (2) pp.494-507
- 2017** [Heavy metals content and health risk assessment of the processed tobacco from Malaysian cigarettes.](#) Indian Journal of Environmental Protection , 37 (9) pp.742-753
- 2017** [Environmetric study on air quality pattern for assessment in northern region of Peninsular Malaysia.](#) Journal of Environmental Science and Technology , 10 (4) pp.186-196
- 2016** [Local community acceptance of the rare earth industry: the case of the Lynas Advanced Materials Plant \(LAMP\) in Malaysia.](#) Environment, Development and Sustainability , 18 (3) pp.739-762
- 2016** [Halal compliance decisions by food suppliers based on analytic hierarchy process.](#) Advanced Science Letters , 22 (12) pp.4509-4513
- 2016** [An overview on rare earth management in Malaysia.](#) Journal of Malaysian Critical Metals , 1 pp.24-29
- 2016** [An assessment of surface water quality and heavy metals involving the rare earth elements in Sungai Tunggak and Sungai Balok, Gebeng, Kuantan, Pahang.](#) Journal of Malaysian Critical Metals , 1 pp.11-23
- 2016** [Improving composting process by controlling aeration time.](#) International Journal of Applied Chemistry , 12 (1) pp.130-135
- 2016** [An assessment of surface water quality and heavy metals involving the radioactive elements in Sungai Tunggak and Sungai Balok, Gebeng, Kuantan, Pahang: comparison between year 2014 and 2015.](#) International Journal of Applied Chemistry , 12 (1) pp.146-151
- 2015** [Public response to the rare earth industries in Malaysia.](#) Procedia Environmental Sciences , 30 pp.62-67
- 2015** [Lynas Advance Material Plant \(LAMP\) Project: Examining factors influencing risk acceptance by the host community.](#) Procedia Environmental Sciences , 30 pp.21-26
- 2015** [Determination and comparison of solutions importance and approaches contribute to waste minimization among manufacturing firms in Shah Alam, Malaysia.](#) Iranica Journal of Energy and Environment , 6 (3) pp.232-242
- 2015** [Assessing the effectiveness of waste minimization methods in solid waste reduction at the source by manufacturing firms in Malaysia .](#) Polish Journal Environmental Studies , 24 (5) pp.2063-2071
- 2015** [Soil contamination from non-sanitary waste landfill in Langat Water Catchment Area, Malaysia.](#) Journal of Scientific Research & Reports , 7 (6) pp.480-493
- 2012** [An overview of the air pollution trend in Klang Valley, Malaysia.](#) Open Environmental Sciences , 2012 (6) pp.13-19
- 2012** [A case study on public participation for the conservation of a tropical of a tropical urban river..](#) Polish Journal of Environmental Studies , 21 (4) pp.821-829

- 2012 [Assessment of municipal solid waste composition in Malaysia: management, practice, and challenges..](#) Polish Journal of Environmental Studies , 21 (3) pp.539-547
- 2011 [Spatial water quality assessment of Langat River Basin \(Malaysia\) using environmetric techniques.](#) Environmental Monitoring and Assessment , 173 (1-4) pp.625-641
- 2010 [The development of an expert system for decision making in forest resources management..](#) Environment Asia. 3 (SPECIAL ISSUE) , 3 pp.98-102
- 2008 [TSA: an expert system for solid waste transfer station..](#) Journal of Sustainable Development. , 1 (3)

Conference or Workshop Item

- 2019 [Managing by zoning in the marine park islands in Mersing, Johor.](#) In: **Seminar Taman Laut Dan Pengurusan Sumber 4.0 Tahun 2019**
- 2019 [Salasa adulis as a novel dual-functional food additive for antimicrobial and antioxidant properties: experimental and theoretical approach.](#) In: **The 32nd Symposium of Malaysia Analytical Sciences : Simposium Kilmia Analisis Malaysia (SKAM 32)**
- 2018 [Determination of two different aeration time on food waste composting.](#) In: **Second International Conference on the Future of ASEAN (ICoFA) 2017**
- 2016 [Study on solid waste generation and composition at balakong city, selangor.](#) In: **IDR Annual Research Seminar**
- 2016 [Risk & prevention: building characteristics and occupancy implications on Indoor Air Quality \(IAQ\) in selected day care nursery and primary school in Pahang.](#) In: **Seminar Penyelidikan Tahunan IDR Ketiga 2016 Dan Pangkor Dialogue Expos Tahun 2016**
- 2016 [Study on design in an appropriate system to enhance composting process methods.](#) In: **International Conference on Environment and Occupational Health 2016**
- 2015 [Smart system for real rime optimization of solid waste management in Malaysia .](#) In: **2015 International Conference of Clean Water, Air & Soil**
- 2015 [Study on physical properties of Acacia mangium and Acacia auriculiformis of plantation growth and natural regeneration .](#) In: **2015 International Conference of Clean Water, Air & Soil**
- 2015 [An overview on rare earth management in Malaysia.](#) In: **Conference on Malaysia Rare Earth Technology: From R&D to Production (COMRET 2015)**
- 2015 [An assessment of surface water quality and heavy metals involving the rare earth elements in Sungai Tunggak and Sungai Balok, Gebeng, Kuantan, Pahang.](#) In: **Conference on Malaysia's Rare Earth: From R&D to Production 2015**

Book

Book Section

- 2015 [Masyarakat dan alam sekitar.](#) In: **Meneroka Interaksi Dinamik dalam Kesihatan Persekitaran Himpunan Siri Kajian di Malaysia** Fakulti Perubatan dan Sains Kesihatan, UPM . ISBN 978-983-2408-29-1 , pp.8-13