

KAMARUZZAMAN BIN YUNUS



- KULLIYAH OF SCIENCE
- IIUM Kuantan Campus
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المؤهل العلمي

- Ph.D in Marine Geochemistry
- Master of Science in Oceanography (Chemical)
- Bachelor of Science in Science (Fishery)
- Diploma in Agriculture

مسؤوليات التدريس

ENVIRONMENTAL SCIENCE	2014/2015
ENVIRONMENTAL TOXICOLOGY	2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
ENVIRONMENTAL TOXICOLOGY/POLLUTION	2007/2008 2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015
INSTRUMENTATION IN BIOTECHNOLOGY RESEARCH	2007/2008
MARINE POLLUTION	2007/2008 2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2020/2021

المشاريع البحثية

In Progress

2020 - Present	The Effectiveness of EM Mudball in Remediating Balok River
2020 - Present	Health Related Programs
2019 - Present	Estimating population parameters of depleting <i>Nemipterus furcosus</i> stock using modelling tools to develop management guidelines for their sustainable production in the Peninsular Malaysia
2019 - Present	Responses of chemical weathering towards estuarine system: A climate change effect
2019 - Present	Prototype for Smart Green Composting Machine (SMART COMP)

2019 - Present	Analysis of Blackwater Treatment of the Green Toilet System in Auto-City, Penang
2016 - Present	Conservation of Malaysian horseshoe crabs-A step for sustainable fishery practice
2016 - Present	Species Inventory and Genetic Diversity of Fishes in Kuantan River Basin
2016 - Present	Spatial Variation Pattern and Behavior of Rare Earth Elements along East Coast Peninsular Malaysia Environment, Using Rocky Shore Bivalve and Sediment as Indicator
2016 - Present	??Glucosidase Inhibitor and Aroma from the Flesh of Salak (Salacca zalacca) Fruit, their Metabolic Demarcation and Antidiabetic Potential
2016 - Present	Accumulation of rare earth elements (REEs) in Pistia stratiotes (water lettuce) and Oreochromis niloticus (tilapia) in REEs industrial wastewater system.
2016 - Present	Species Diversity and Seasonal Distribution of Fishes and Water Quality in Tropical River, Pahang, Malaysia
2015 - Present	Captive Breeding and Induced Fertilization of Malaysian Horseshoe crab (Tachypleus gigas) for Sea Ranching and Future Artificial Sanctuary
2015 - Present	Bacterial-Assisted Composting (BAC) of Food Waste
2015 - Present	Historical Changes of Radioactive and Heavy Elements in Kuantan Port, Pahang
2015 - Present	Influence of Carbon Dioxide at Supercritical Phase Separating the Omega 3 Fish Oil from Sardine Wastes following Shariah Compliant
2014 - Present	Development of In-Vitro Oxidative Potential Assessment Model for Indoor and Outdoor Airborne Particulate Matter (PM) within an Industrial Area
2013 - Present	Study on the Production and Characterization of Fish Collagen Nanoparticles (NPs) from Local Sources and Their Incorporation in Food System
2004 - Present	Functional Food and Nutraceuticals Research Unit (FFNRU)
Unknown - Present	INVENTORY ON THE SPECIES COMPOSITION AND EXISTING METAL CONCENTRATION IN KUANTAN RIVER
Unknown - Present	INVENTORY ON THE SPECIES COMPOSITION AND EXISTING METAL CONCENTRATION IN KUANTAN RIVER
Completed	
2016 - 2018	??Glucosidase Inhibitor and Aroma from the Flesh of Salak (Salacca zalacca) Fruit, their Metabolic Demarcation and Antidiabetic Potential
2016 - 2017	Conservation of Malaysian horseshoe crabs-A step for sustainable fishery practice
2016 - 2018	??Glucosidase Inhibitor and Aroma from the Flesh of Salak (Salacca zalacca) Fruit, their Metabolic Demarcation and Antidiabetic Potential

- 2016 - 2017** Enhancement of Pond Bottom Soil with Bottom Life forms to Minimise Effect of Climate Change on Marine Aquaculture Farm
- 2016 - 2018** Species Inventory and Genetic Diversity of Fishes in Kuantan River Basin
- 2016 - 2018** Species Diversity and Seasonal Distribution of Fishes and Water Quality in Tropical River, Pahang, Malaysia
- 2016 - -1** Accumulation of rare earth elements (REEs) in *Pistia stratiotes* (water lettuce) and *Oreochromis niloticus* (tilapia) in REEs industrial wastewater system.
- 2016 - 2019** Accumulation of rare earth elements (REEs) in *Pistia stratiotes* (water lettuce) and *Oreochromis niloticus* (tilapia) in REEs industrial wastewater system.
- 2016 - 2018** ??Glucosidase Inhibitor and Aroma from the Flesh of Salak (*Salacca zalacca*) Fruit, their Metabolic Demarcation and Antidiabetic Potential
- 2015 - 2018** Feeding Mechanism in Adult Tropical Horseshoe Crab
- 2015 - 2016** Impacts Assessment of Flood on Nutrients, Micro-communities and Fish Growth in the Kuantan River for a Proper Management
- 2015 - 2018** Captive Breeding and Induced Fertilization of Malaysian Horseshoe crab (*Tachypleus gigas*) for Sea Ranching and Future Artificial Sanctuary
- 2015 - 2016** The Effect of Monsoon on Fish Larval (Ichthyoplankton Stages) Assemblage Changes in Kuantan River
- 2015 - 2017** Bacterial-Assisted Composting (BAC) of Food Waste
- 2015 - 2017** Influence of Carbon Dioxide at Supercritical Phase Separating the Omega 3 Fish Oil from Sardine Wastes following Shariah Compliant
- 2015 - 2019** Isolation Of ?-Glucosidase Inhibitor and aroma from the Flesh of Salak (*Salacca zalacca*) Fruit and Their Metabolic Profiling on GC/MS.
- 2015 - 2020** Historical Changes of Radioactive and Heavy Elements in Kuantan Port, Pahang
- 2014 - -1** Pear-review of Research
- 2014 - 2018** Indoor Air Quality in Urban Child Care Institution (Nurseries & Kindergarten): The Characterization of Particulate Matter (PM) and Its Relation to Airborne Enteric Microorganisms
- 2014 - 2018** Development of In-Vitro Oxidative Potential Assessment Model for Indoor and Outdoor Airborne Particulate Matter (PM) within an Industrial Area
- 2013 - 2017** Enhanced-Microbial Bioremediation of PCBs and Dioxins in Landfill Leachate Using *Burkholderia xenovorans* LB400 With Altered-sigma-54 Regulatory System
- 2013 - 2016** Study on the Contamination of Najs Mutawassitah in Fish and Water of Kuantan River
- 2013 - 2015** Studies of Rare Earth Elements (REEs) and Heavy Metals in Sediment and Benthic Organisms along Kuantan River, Pahang

- 2012 - 2016** Modelling of longitudinal changes in bacterial community structure towards physico chemical and environmental factors along the Pahang river
- 2012 - 2014** Study on Spatio-temporal Variation of Scleractinian Coral Recruitment Towards Sustainable Coral Reef Conservation in Pulau Tioman and Balok, Pahang
- 2012 - 2016** Jackfruit (*Artocarpus Heterophyllus*)Leaf Powder as Potential Bioadsorbent for Wastewater Treatment
- 2012 - 2015** Study on Microencapsulation and Delivery of Fucoxanthin Derived from Malaysian Brown Seaweeds for Human Lung Cancer Treatment
- 2011 - 2014** Rare earth elements (REEs) and trace metals studies in rocky shore organisms, related to those in sediment along Peninsular Malaysia coastal waters
- 2011 - 2012** Diversity and Distribution of Plankton Communities in Kuantan, Pahang
- 2011 - 2012** Heavy Metals on Marine Fishes and Sediment environment of Coastal Water Pahang and Gulf of Oman
- 2010 - 2013** Chemoenzymatic Conversion of w-fatty acids extracted from Malaysian Giant Snakehead and catfish
- 2010 - 2012** DNA Barcoding Of Horse Shoe Crab, *Carcinoscopius Rotundicauda* And *Tachypleus Gigas* From Coastal Water Malaysia
- 2010 - 2012** Determination of Toxic Elements in the Kuantan River Water, Pahang
- 2009 - 2010** Bioaccumulation of heavy metal in Mangrove Crabs and Mollusks of Penor and Kuantan river, Pahang
- 2009 - 2011** Site Selection of Nesting Ground and Ecophysiology of Horseshoe Crab *Carcinoscopius rotundicauda* and *Tachypleus gigas* from Pahang Coast
- 2008 - 2009** The Diversity and Distribution of Fishes in Pahang Estuary
- 2008 - 2011** Distribution of Heavy Metals and Their Pollution Effects on Fishes, Green Mussels and Sediments of Coastal Water Pahang, Langkawi Malaysia and Gulf of Oman
- 2008 - 2010** ?-fatty Acid Profiles of Mudskippers from Malaysian Mangrove and Intertidal Zones
- 2007 - 2010** Assessment of Heavy Metals concentration in Marine Commercial fishes of Pahang Estuary
- 2007 - 2010** Sediment Accretion and Sediment Characteristics of Pahang Estuarine Mangrove
- 2007 - 2010** Study on Microbial Ecology of the Coastal Water Langkawi
- 2007 - 2010** Geochemical and Sedimentological Characteristics Studies of Pahang Estuary, Malaysia
- 2006 - 2012** Studies on Mangrove in Pulau Toba, Langkawi
- Unknown - 2019** INVENTORY ON THE SPECIES COMPOSITION AND EXISTING METAL CONCENTRATION IN KUANTAN RIVER

Article

- 2020 [Environmental forensic study: tracing of pollution sources using environmetric technique in Balok and Tunggak Rivers near Gebeng industrial area, Kuantan, Pahang, Malaysia.](#) Desalination and Water Treatment , 191 pp.118-125
- 2020 [A review on the accumulation of heavy metals in coastal sediment of Peninsular Malaysia.](#) Ecofeminism and Climate Change
- 2020 [Quality air monitoring equipment: the review of air quality monitoring equipment.](#) International Journal of Advanced Science and Technology , 29 (9s) pp.1826-1835
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- 2020 [Acute-lethal toxicity test on juvenile Oreochromis niloticus exposed to Piper betle extract under static exposure.](#) Ecofeminism and Climate Change pp.1-9
- 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 [Assessment of trace metals using chemometric analysis in Kuantan River, East Coast Malaysia.](#) Journal Clean WAS (JCleanWAS) , 3 (2) pp.1-4
- 2019 [Biological activities and extraction technologies of Pheonix dactylifera: a review..](#) The Natural Products Journal , 9 (1) pp.3-13
- 2019 [Spermiogram of wild and captive Malaysian horseshoe crab \(Tachypleus gigas\) from Pantai Balok, Kuantan, Pahang, Malaysia =Spermiogram belangkas liar dan kurungan Malaysia \(Tachypleus gigas\) dari Pantai Balok, Kuantan, Pahang, Malaysia\).](#) Sains Malaysiana , 48 (2) pp.325-328
- 2019 [Building a case for the conservation of Malaysian horseshoe crabs.](#) Fishmail , 27 ((May -December)) pp.15-18
- 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 [Acute-lethal toxicity \(LC50\) effect of terminalia catappa linn. Leaves extract on oreochromis niloticus \(Red nile tilapia\) juveniles under static toxicity exposure.](#) Oriental Journal of Chemistry , 35 (1) pp.270-274
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- 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 [Marine water quality index trend from eight-year study of Klang Estuary.](#) Bioscience Research , 16 (S1) pp.59-68
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- 2018** [An overview of radioisotopes study in water pollution.](#) International Journal of Engineering & Technology , 7 (2.29) pp.882-886
- 2018** [Ethical issues on using invertebrates in environmental and biomedical practices – a case study on living fossil horseshoe crab.](#) International Medical Journal Malaysia , 17 (Special Issue 2) pp.281-285
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- 2018** [Determination of selected heavy metals in airborne particles in industrial area: A baseline study.](#) Malaysian Journal of Fundamental and Applied Sciences , 14 (2 (April-June)) pp.251-256
- 2018** [Fish scales as a bioindicator of potential marine pollutants and carcinogens in Asian sea bass and red tilapia within the coastal waters of Pahang, Malaysia.](#) Journal of Coastal Research , Special Issue 82 Fall pp.120-125
- 2018** [Seasonal influences on the levels of particulate matter, Cd, Cr and Pb in Kuantan River, Pahang.](#) Oriental Journal of Chemistry , 34 (2) pp.813-819
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- 2018** [An overview of radioisotope study in water pollution.](#) International Journal of Engineering & Technology , 7 (2.29) pp.882-886
- 2018** [Assessing indoor air quality using chemometric models.](#) Polish Journal of Environmental Studies , 27 (6) pp.2443-2450
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- 2017** [Spatial and temporal variation on distributions of dissolved and particulate arsenic and mercury in Sungai Kuantan, Pahang = Perbezaan temporal dan reruang bagi taburan logam arsenik dan merkuri terlarut dan berpartikel di Sungai Kuantan, Pahang.](#) Sains Malaysiana , 46 (3) pp.393-396
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- 2016** [Biosorption of Pb and Cu from aqueous solution using banana peel powder.](#) Desalination and Water Treatment , 57 (1) pp.303-314
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- 2015** [Bioactive compounds and advanced processing technology: Phaleria macrocarpa \(sheff.\) Boerl, a review.](#) Journal of Chemical Technology and Biotechnology , 90 (6) pp.981-991
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- 2015** [Geographical Information System \(GIS\) for relationship between dengue disease and climatic factors at Cheras, Malaysia = Perhubungan Antara Kes Denggi dan Faktor Iklim Menggunakan Sistem Maklumat Geografi di Cheras, Malaysia .](#) Malaysian Journal of Analytical Sciences (MJAS) , 19 (6) pp.1318-1326
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- 2015** [Bioactive compounds and advanced processing technology: Phaleria macrocarpa \(sheff.\) Boerl, a review.](#) Journal of Chemical Technology and Biotechnology pp.981-991
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