

ABDULLAH AL-MAMUN



- KULLIYAH OF ENGINEERING
- IIUM Gombak Campus
- Email address: mamun@iium.edu.my

المؤهل العلمي

- Ph.D in Environmental Engineering
- Master in Environmental Engineering
- Bachelor in Civil Engineering

مسؤوليات التدريس

AIR POLLUTION CONTROL TECHNOLOGY	2006/2007 2009/2010 2010/2011
BIOTECH. ENGINEERING LAB III	2007/2008 2008/2009 2009/2010 2010/2011 2011/2012
BIOTECHNOLOGY ENGINEERING LAB IV	2012/2013 2013/2014 2014/2015
CIVIL ENGINEERING LAB III	2017/2018 2018/2019
CIVIL ENGINEERING LAB IV	2017/2018 2018/2019 2019/2020 2020/2021
DRINKING WATER QUALITY & TREATMENT PROCESSES	2010/2011 2014/2015
ENVIRONMENTAL BIOTECHNOLOGY	2005/2006 2006/2007 2007/2008
ENVIRONMENTAL ENGINEERING	2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2017/2018 2018/2019 2019/2020 2020/2021
INTEGRATED DESIGN PROJECT	2013/2014 2014/2015
INTRODUCTION TO ENVIRONMENTAL ENGINEERING	2012/2013 2013/2014 2015/2016
MOLECULAR BIOLOGY & BIOCHEMICAL TECH.	2006/2007 2007/2008
PROJECT I	2011/2012 2012/2013
PROJECT II	2006/2007 2007/2008 2013/2014
SOLID WASTE ENGINEERING	2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017
STATICS	2016/2017
URBAN STORMWATER MANAGEMENT	2018/2019 2020/2021

WASTE MANAGEMENT ENGINEERING	2013/2014 2014/2015
WASTEWATER RECLAMATION AND REUSE	2007/2008 2008/2009 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016
WATER RESOURCES AND HYDROLOGY	2016/2017 2017/2018 2018/2019 2019/2020 2020/2021

المشاريع البحثية

In Progress

2020 - Present	Rekabentuk Terperinci Pembangunan Lembangan Sungai Bersepadu Sg. Semantan Daerah Temerloh Fasa 1, Pahang Darul Makmur
2020 - Present	Penyediaan Pelan Pengurusan Lembangan Sungai Bersepadu (IRBM) Sungai Buloh, WPKL/Selangor D.E.
2020 - Present	Development of a Solid-State Bio-Conversion System for the Bulk Production of Myco-Coagulant (My-Coag) for Water Treatment
2019 - Present	A hybrid system of microbial electrolysis cell and anaerobic digestion for high content of biomethane production
2019 - Present	Sedimentation and Total Maximum Daily Load (TMDL) Analysis of Sungai Pusu, IIUM Gombak Campus
2019 - Present	Development of an improved method for quick estimation of storm runoff peak flow
2018 - Present	Underlying molecular mechanism of acacetin-7-O-glycoside (AG) isolated from Premna serratifolia L. against breast cancer cells
2018 - Present	Underlying molecular mechanism of acacetin-7-O-glycoside (AG) isolated from Premna serratifolia L. against breast cancer cells
2018 - Present	Fundamental Investigation on Non-structural Approach for Sustainable Flood Disaster Management in Malaysia
2018 - Present	Pelan Pengurusan Lembangan Sungai Bersepadu (IRBM) Sungai Merbok, Kedah
2016 - Present	Rekabentuk Terperinci Rancangan Tebatan Bandar Merlimau, Melaka
2015 - Present	Investigation of Indigenous Biofilm Technology for Simultaneous Pretreatment and Enhanced Biogas Production From Palm oil Mill Effluent
2004 - Present	Bio-Environmental Engineering Research Centre (BERC)
Unknown - Present	Underlying molecular mechanism of acacetin-7-O-glycoside (AG) isolated from Premna serratifolia L. against breast cancer cells

Completed

- 2018 - 2019** Pelan Pengurusan Lembangan Sungai Bersepadu (IRBM) Sungai Merbok, Kedah
- 2016 - -1** Storm Drainage Modelling and Design of the Improved System at Bandar Bukit Raja, Kapar, Selangor
- 2015 - 2015** Kajian Hybrid off River Augmantation Storage (HORAS) di Kg. Sg. Darah, Bestari Jaya Sebagai Sumber Air Untuk Tujuan Bekalan Air
- 2015 - -1** Feasibility Study for Proposed Water Treatment Plant in Labohan Dagang, Daerah Kuala Langat ,Selangor Darul Ehsan.
- 2015 - 2015** THE DETAIL DESIGN OF RIVER IMPROVEMENT WORKS AND DETENTION POND FOR THE PROPOSED PROJEK PEMBANGUNAN PUSAT KECEMERLANGAN LEMBAGA GETAH MALAYSIA
- 2014 - 2017** Development of Novel Microbial Technology to Reduce Turbidity of River Water
- 2014 - 2016** Swan Lake, Engineered Wetland and Signature Lake at East Ledang, Mukim Pulai, Johor
- 2014 - 2017** Pilot Study on the River Rehabilitation of Sg. Pusu
- 2012 - 2014** Penyediaan Data-Data Hujan dari Stesen Manual (Daily Data) kepada Hujan dengan Interval Hourly untuk Tujuan Rekabentuk Projek Tebatan Banjir
- 2012 - 2016** Development of National Event Mean Concentration (EMC) of Storm Runoff Quality Database for the Non-Point Source Pollution Control from Highways in Malaysia
- 2012 - 2015** Optimization of Colour Removal from Palm Oil Mill Effluent (POME) by Nanomaterials
- 2012 - 2016** Consultancy Services for the Updating/Preparation of the Storm Water Drainage Master Plan for Dhaka City, Dhaka Water Supply and Sanitation Project (DWSSP)
- 2011 - 2012** Design of a Sand Filter for Recycling Ablution Water from IIUM Majid
- 2010 - 2010** Consultancy Services for the Detailed Design and Preparation of Tender Document Flood Mitigation in Setiu River in Terengganu
- 2010 - 2011** Preparation of Urban Storm Water Management Planning and Design Standard For Malaysia and 2nd Edition of Urban Storm Water Management Manual For Malaysia
- 2009 - 2010** Water Quality Sampling, Testing, Inventory and River Quality Improvement Option for Buloh River
- 2009 - 2010** Upgrading of Jimah River System for Flood Mitigation
- 2009 - 2012** (RU 2011): Characterization, Composing and Management of food and garden Wastes: IIUM as a case study.
- 2009 - 2010** Study and Detailed Design of Stormwater Detention Pond for Ayer Salak River in Malacca
- 2009 - 2010** Adsorption of Heavy Metals from Industrial Wastewater using Carbon Nanomaterial Grown on Granular Activated Carbon

2008 - 2011	Improvement of the Existing Water Quality Indices (WQI) for Various Usages in Malaysia
2008 - 2009	Flood Mitigation Masterplan Study for Mersing River Basin
2008 - 2011	Development of An Integrated Water-Level Sensor and Data Logger System
2008 - 2009	River Water Quality Trends and Indexes in the Peninsular Malaysia
2008 - 2012	Development of Decision Support System to Manage Severe Floods in Kuala Lumpur and Selangor
2008 - 2008	Preparation of Irrigation and Drainage Manual for Malaysia
2007 - 2007	Rehabilitation and Water Treatment of Penang River - Study and Detailed Design
2007 - 2008	Preparation of Irrigation and Drainage Manual for Malaysia
2007 - 2016	Palm Oil Mill Effluent as Renewable Resource for Bioethanol Production by Single-Step Bioconversion
2007 - 2009	Optimization of Extraction Process for Useful Bound and Free Bioactive Compounds from Oil Palm Industrial Wastes
2007 - -1	Palm Oil Mill Effluent as Renewable Resource for Bioethanol Production by Single-Step Bioconversion
2007 - 2011	CHARACTERIZATION OF SULLAGE
2006 - 2007	Detailed Design of Community Pond at Taman Ria, Sungai Petani, Kedah Darul Aman
2006 - 2007	Upgrading of Simin River System for Flood Mitigation
2006 - 2012	Production of Carbon Nanomaterials and Application in Removal of Toxic Heavy Metals From Water and Wastewater
Unknown - -1	Study on Vulnerability and Adaptation of Climate Change Impacts on Floods in Selected River Basins

المنشورات

Article

- 2020** [The history of rainfall data time-resolution in a wide variety of geographical areas.](#) Journal of Hydrology , 590
- 2020** [Qualitative analysis of plastic debris on beaches of Brunei Darussalam.](#) Pollution , 6 (3) pp.569-580
- 2020** [Statistical optimization of the extraction of citric acid from the solid fermented substrate of empty fruit bunches.](#) Engineering Reports , 2 (8) pp.1-13

- 2020** [Medicinal properties screening of *Mallotus paniculatus* extract.](#) IIUM Medical Journal Malaysia , 19 (1) pp.5-12
- 2020** [Review on uncertainty of the first-flush phenomenon in diffuse pollution control.](#) Applied Water Science , 10 (1) pp.1-10
- 2020** [Islamisation of engineering education – a case at IIUM.](#) Universal Journal of Educational Research , 8 (2) pp.355-361
- 2019** [Contribution of rainwater to the irrigation requirement for paddy cultivation at Tanore Upazila in Rajshahi, Bangladesh.](#) Air, Soil and Water Research , 12 pp.1-8
- 2019** [The optimum condition for the synthesis of carbon nanofibers on activated carbon to remove lead from aqueous solution.](#) International Journal of Nanoelectronics and Materials , 12 (2) pp.135-144
- 2018** [Diversity and community composition of fishes in the Pusu River Gombak, Malaysia.](#) Journal of Coastal Research , Special Issue 82 Fall pp.150-155
- 2018** [Determining ammonia nitrogen decay rate of Malaysian river water in a laboratory flume.](#) International Journal of Environmental Science and Technology (IJEST) , 15 (6) pp.1249-1256
- 2018** [Experimenting biochemical oxygen demand decay rates of Malaysian river water in a laboratory flume.](#) Environmental Engineering Research , 23 (1) pp.99-106
- 2018** [Reuse potential of carbon nanotubes in removing cadmium from water.](#) Nanoscience & Nanotechnology-Asia , 8 (2) pp.193-198
- 2018** [Development of non-contact liquid level measurement and data storage system.](#) International Journal of Engineering Materials and Manufacture , 3 (3) pp.134-142
- 2018** [A parametric approach for the study of heat flow between street canyon and the atmosphere.](#) Planning Malaysia: Journal of the Malaysian Institute of Planners , 16 (2) pp.50-61
- 2018** [Carbon nanotubes grown on oil palm shell powdered activated carbon as less hazardous and cheap substrate.](#) Applied Nanoscience (Switzerland) , 8 (7) pp.1767-1779
- 2018** [Estimation of short-duration rainfall intensity from daily rainfall values in Klang Valley, Malaysia.](#) Applied Water Science , 8 (7) pp.1-10
- 2018** [Production and stability of myco-flocculants from *Lentinus squarrosulus* RWF5 and *Simplicillium obclavatum* RWF6 for reduction of water turbidity.](#) IIUM Engineering Journal , 19 (1) pp.48-58
- 2018** [A modified laboratory approach to determine reaeration rate for river water.](#) Arabian Journal for Science and Engineering , 43 (4) pp.2037-2051
- 2017** [Development of enzymatic pretreatment of palm oil mill effluent for monomers towards biogas production.](#) Advanced Research in Materials Science , 38 (1) pp.39-44
- 2017** [Optimization of flocculation process by microbial coagulant for removal of turbidity in river water.](#) IIUM Engineering Journal , 18 (2) pp.63-70

- 2017** [Challenges in the rehabilitation of the Pusu River.](#) International Journal of Conservation Science , 8 (1) pp.121-130
- 2017** [Research progress in bioflocclants from bacteria.](#) International Food Research Journal , 24 (Suppl.) pp.S402-S409
- 2017** [A brief account of river rehabilitation experiences.](#) IIUM Engineering Journal , 18 (1) pp.27-41
- 2016** [Fungal flocculants to reduce turbidity of river water.](#) ARPN Journal of Engineering and Applied Sciences , 11 (6) pp.4094-4099
- 2016** [Impact of improper land use changes on flash flood and river system: a case of Sg Pusu.](#) ARPN Journal of Engineering and Applied Sciences , 11 (8) pp.5372-5379
- 2016** [Removal of cadmium from water by CNT-PAC composite: effect of functionalization.](#) NANO: Brief Reports and Reviews , 11 (1) pp.1650011-1-1650011-7
- 2016** [Impediments to river rehabilitation.](#) Environmental Quality Management , 26 (2) pp.5-21
- 2016** [Physical risk assessment for urban water supply in a developing country: A case of Mega City Dhaka.](#) Engineering Journal , 20 (3) pp.23-32
- 2016** [Adapt engineering theory in universal design for developing countries: a literature review.](#) Journal of Universal Design in the Built Environment (JUDBE) , 2 (2) pp.61-72
- 2016** [Synthesis and characterization of carbon nanofibers grown on powdered activated carbon..](#) Journal of Nanotechnology , 2016 pp.1-10
- 2016** [White popinac as potential phyto-coagulant to reduce turbidity of river water..](#) AARNP Journal of Engineering and Applied Sciences , 11 (11) pp.7180-7183
- 2016** [Synthesis of carbon nanofibers on impregnated powdered activated carbon as cheap substrate.](#) Arabian Journal of Chemistry , 9 (4) pp.532-536
- 2015** [A shift-share analysis of electrical and electronic products: an overview and assessment of export growth of Malaysia.](#) Asian Social Science , 11 (10) pp.330-338
- 2015** [Evaluation of entrapment potentiality and turbidity removal efficiency of fungi.](#) Jurnal Teknologi , 77 (24) pp.23-28
- 2015** [Efficient lead sorption from wastewater by carbon nanofibers.](#) Environmental Chemistry Letters , 13 (3) pp.341-346
- 2015** [Development of electronic rain gauge system.](#) International Journal of Electronics and Electrical Engineering , 3 (4) pp.245-249
- 2015** [Phytoremediation and mathematical model for domestic wastewater by Chlorella vulgaris.](#) Advances in Environmental Biology , 9 (14) pp.139-144
- 2015** [Lead sorption by carbon nanofibers grown on powdered activated carbon — kinetics and equilibrium.](#) NANO: Brief Reports and Reviews , 10 (2) pp.1550017-1

- 2015** [Upgrading of small sewage treatment plants for ammonia removal - case of a university campus.](#) ARPN Journal of Engineering and Applied Sciences , 10 (23) pp.17391-17396
- 2014** [Potential aspergillus niger strain for the production of phenolics from a novel source palm oil mill effluent.](#) Journal of Pure and Applied Microbiology , 8 (1) pp.803-808
- 2014** [Characterization of storm runoff quality from a highway in Selangor and conceptual design of constructed Wetland.](#) Advances in Environmental Biology , 8 (3 (spec.)) pp.810-814
- 2014** [Treatment of used ablution water from IIUM Masjid for reuse.](#) Advances in Environmental Biology , 8 (3 (Special Issue)) pp.558-564
- 2014** [Kinetics of cadmium adsorption by CNTs grown on PACs.](#) International Journal of Nanoelectronics and Materials , 7 (1) pp.25-33
- 2014** [Application of response surface methodology \(RSM\) for optimization of color removal from POME by granular activated carbon.](#) International Journal of Environmental Science and Technology , xx (xx) pp.1-8
- 2013** [Sustainable river water quality management in Malaysia.](#) IIUM Engineering Journal , 14 (1) pp.29-42
- 2012** [Processing of date palm kernel \(DPK\) for production of edible jam.](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.22-29
- 2012** [Development of process conditions to optimize the extraction of bio-disinfectant from Neem Leaf \(Azadirachta Indica\).](#) Advances in Natural and Applied Sciences , 6 (5) pp.682-686
- 2012** [Regional Statistical Models for the Estimation of Flood Peak Values at Ungauged Catchments: Peninsular Malaysia.](#) Journal of Hydrologic Engineering , 17 (4)
- 2011** [Development of culture inoculum for scale-up production of citric acid from oil palm empty fruit bunches by aspergillus niger.](#) Procedia Environmental Sciences , 8 pp.396-402
- 2011** [Growth of carbon nanomaterial on granular activated carbon .](#) Advanced Materials Research , 264 pp.535-541
- 2011** [Heavy metals removal from synthetic wastewater by a novel nano-size composite adsorbent.](#) International Journal of Environmental Science and Technology , 8 (4) pp.799-806
- 2011** [Adsorption of heavy metal from landfill leachate by wasted biosolids.](#) African Journal of Biotechnology , 10 (8) pp.18869-18881
- 2011** [Synthesis of various carbon nanomaterials \(CNMs\) on powdered activated carbon.](#) African Journal of Biotechnology , 10 (81) pp.18892-18905
- 2010** [Regionalisation of low flow frequency curves for the Peninsular Malaysia.](#) Journal of Hydrology , 381 (1-2) pp.174-180
- 2010** [Statistical optimization of process parameters for the production of citric acid from oil palm empty fruit bunches.](#) African Journal of Biotechnology , 9 (4) pp.554-563

- 2010** [Effect of particle size on production of citric acid from oil palm empty fruit bunches as new substrate by wild *Aspergillus niger*](#) . Journal of Applied Sciences , 10 (21) pp.2648-2652
- 2010** [Solid state bioconversion of oil palm empty fruit bunches for production of citric acid by wild strains of *Aspergillus niger*](#). Food Biotechnology , 24 (1) pp.19-36
- 2010** [Estimation of 1-day extreme rainfall by Hershfield Method for Klang River basin in Malaysia..](#) International Journal of Arts and Sciences , 3 (9) pp.383-394
- 2010** [Clean production of carbon nanomaterials to remove arsenic from drinking water.](#) OIDA International Journal of Sustainable Development , 1 (7) pp.45-52
- 2010** [Adsorption of copper, nickel and lead ions from synthetic semiconductor industrial wastewater by palm shell activated carbon.](#) International Journal of Environmental Science and Technology , 7 (4) pp.751-758
- 2010** [Study of Pb adsorption by carbon nanofibers \(CNFs\) grown on powdered activated carbon.](#) Journal of Applied Sciences , 10 (17) pp.1983-1986
- 2009** [Optimisation of arsenic adsorption from water by carbon nanofibers grown on powdered activated carbon impregnated with nickel..](#) Journal of Applied Sciences , 9 (17) pp.3180-3183
- 2009** [Kinetic adsorption of application of carbon nanotubes for lead Pb \(II\) removal from aqueous solution.](#) Journal of Environmental Sciences , 21 (4) pp.539-544
- 2009** [Solid state bioconversion of oil palm empty fruit bunches for cellulase enzyme production using a rotary drum bioreactor.](#) Biochemical Engineering Journal , 46 (1) pp.61-64
- 2009** [Kinetic adsorption of application of carbon nanotubes for Pb\(II\) removal from aqueous solution.](#) Journal of Environmental Sciences-China , 21 (4) pp.539-544
- 2009** [Improvement of production of citric acid from oil palm empty fruit bunches: Optimization of media by statistical experimental designs.](#) Bioresource Technology , 100 (12) pp.3113-3120
- 2009** [Untreated sullage from residential areas - a challenge against inland water policy in Malaysia.](#) Pollution Research , 28 (2) pp.279-285
- 2009** [Lead removal by using carbon nanotubes .](#) International Journal of Nanoparticles , 2 (1-6) pp.329-338
- 2009** [Lead removal by using carbon nanotubes.](#) International Journal of Nanoparticles , 2 (1-6) pp.329-338
- 2008** [Treatment of POME by pilot plant anaerobic fluidised bed reactor.](#) IIUM Engineering Journal , 9 (1) pp.9-17
- 2007** [Enzymatic biodegradability behavior of poly \(methyl methacrylate\) grafted sago starch biopolymer.](#) IIUM Engineering Journal , 8 (2) pp.37-45
- 2005** [The importance of sullage \(grey-water\) treatment for the restoration and conservation of urban streams.](#) International Journal of River Basin Management , 3 (3) pp.223-227

- 2004 [Generalised long duration probable maximum precipitation \(PMP\) isohyetal map for Peninsular Malaysia.](#) Journal of Spatial Hydrology , 4 (1 (Spring)) pp.1-15
- Conference or Workshop Item**
- 2018 [Selection of nutrients for the production of Myco-coagulant from Mycelial fungus fermentation.](#) In: **5th International Conference on Biotechnology Engineering (ICBioE 2018)**
- 2018 [Optimization of enzymatic pretreatment process for enhanced biogas production from palm oil mill effluent.](#) In: **5th International Conference on Biotechnology Engineering (ICBioE 2018)**
- 2017 [Assess a method for the parametrization of urban quality of life.](#) In: **3 rd ABRA International Conference on Quality of Life**
- 2016 [Screening of nutrients for improving flocculation performance of fungal bio-flocculants.](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2016 [Application of pond to improve river water quality.](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2016 [Biocoagulant from bacteria: a review.](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2016 [Ethics in engineering research: an Islamic perspective.](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2016 [Production of citric acid from empty fruit bunches through solid state bioconversion by using rotary drum bioreactor with Aspergillus niger.](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2016 [Development of enzymatic pretreatment of palm oil mill effluent for monomers towards biogas production.](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2016 [Optimization of flocculation process for a new myco-coagulant to reduce water turbidity.](#) In: **Regional Conference on Science Technology and Social Sciences 2016 (RCSTSS 2016)**
- 2016 [Optimization of flocculation process by microbial coagulant in river water.](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2016 [Characteristics of novel Myco-coagulant for reducing turbidity in water treatment..](#) In: **6th International Chemistry Conference (ICC 2016)**
- 2016 [Quantification of pollution loads for the rehabilitation of Pusu River.](#) In: **International Conference on Engineering Technology (ICET 2016)**
- 2016 [Effect of sand mining on water quality index of Sg.Pusu.](#) In: **4th International Conference on Innovations in Chemical, Agricultural and Environmental Engineering (ICICAE'2016)**
- 2016 [Towards a disable-friendly, energy-efficient and sustainable green campus.](#) In: **EAU International Conference on Green Asia and Inclusive Sustainable Development 2016**

- 2016 [Fungal coagulant for reduction of water turbidity.](#) In: **3rd International Conference on Civil, Biological and Environmental Engineering (ICBEE-2016)**
- 2015 [Investigating the performance of sewage treatment plants of IIUM Gombak campus.](#) In: **The International Postgraduate Conference on Engineering Research (IPCER) 2015**
- 2015 [Engineering education focusing on environmental management in Malaysia.](#) In: **FEIIC-International Conference on Engineering Education and Research (FICEER 2015)**
- 2015 [Screening of fungal coagulants and their application to reduce turbidity of river water.](#) In: **The International Postgraduate Conference on Engineering Research (IPCER 2015)**
- 2014 [Challenges in non-point source pollution — Sampling and testing.](#) In: **5th Brunei International Conference on Engineering and Technology 2014 (BICET 2014)**
- 2014 [Adsorption of chlorine from drinking water by granular activated carbon.](#) In: **5th International Chemistry Conference**
- 2013 [Heavy metal contents in highway runoff in Malaysia.](#) In: **4th Global Engineering, Science and Technology Conference**
- 2013 [Adsorption of cadmium from water by wasted biosolids.](#) In: **International Conference on Green Chemical Engineering & Technology (GCET 2013)**
- 2013 [Relationship between short duration and daily rainfall data in Kuala Lumpur.](#) In: **Persidangan Kebangsaan Geografi & Alam Sekitar kali ke 4**
- 2013 [Reuse potential of ablution water from IIUM masjid.](#) In: **Proceedings of the International Conference on Biotechnology Engineering, ICBioE, '13**
- 2013 [Initial assessment of runoff quality from a road and highway in Klang Valley.](#) In: **3rd International Conference on Biotechnology Engineering (ICBioE'13)**
- 2013 [Heavy metal contents in highway runoff in Malaysia.](#) In: **4th Global Engineering, Science and Technology Conference 2013**
- 2012 [Kinetics of cadmium adsorption by CNTs grown on PACs.](#) In: **International Conference on Nanotechnology, ICONT 2012**
- 2012 [Phytoremediation of partially treated wastewater by chlorella vulgaris .](#) In: **International Conference on Chemical Processes and Environmental Issues, ICCPEI 2012**
- 2011 [Adsorption of heavy metal from landfill leachate by wasted biosolids.](#) In: **International Conference on Biotechnology Engineering, ICBioE'11, IIUM Engineering Congress**
- 2011 [Various Carbon Nanomaterials \(CNMs\) synthesized on powdered activated carbon by CVD reactor.](#) In: **2nd International Conference on Biotechnology Engineering (ICBioE 2011)**
- 2011 [Statistical modelling of nonpoint source pollution from a ropical urban residential area.](#) In: **46th Central Canadian Symposium on Water Quality Research**

- 2011 [Urban runoff quantity and quality control – Malaysian perspective..](#) In: **46th Central Canadian Symposium on Water Quality Research.**
- 2011 [Water supply and sanitation in Dhaka City..](#) In: **46th Central Canadian Symposium on Water Quality Research**
- 2011 [Development of culture inoculum for scale-up production of citric acid from oil palm empty fruit bunches by *Aspergillus niger*.](#) In: **International Conference on Environment Science and Biotechnology (ICESB 2011)**
- 2011 [Environmental engineering education for sustainable development in IIUM.](#) In: **2nd International Conference on Engineering Professional Ethics and Education (ICEPEE'11)**
- 2010 [Modification of CDV reactor for carbon nanomaterials production.](#) In: **IIUM Research, Innovation & Invention Exhibition (IRIIE 2010)**
- 2010 [Production of Citric Acid from Oil Palm Empty Fruit Bunches by Solid State Bioconversion using Local *Aspergillus niger*.](#) In: **National Biotechnology Seminar 2010**
- 2010 [Optimization of synthesis of carbon nanotubes on iron impregnated activated carbon.](#) In: **24th Symposium of Malaysian Chemical Engineers (SOMChE 2010) and 1st International Conference on Process Engineering and Advanced Materials 2010 (ICPEAM2010).**
- 2010 [Effect of adsorbate initial concentration on the removal of Pb from aqueous solutions by carbon nanofibers.](#) In: **24th Symposium of Malaysian Chemical Engineers (SOMChE 2010) and 1st International Conference on Process Engineering and Advanced Materials 2010 (ICPEAM2010).**
- 2010 [Surface modification of activated carbon for enhancement of heavy metals adsorption..](#) In: **2nd International Conference on Environmental Research and Technology (ICERT).**
- 2010 [Adsorption of lead from aqueous solution by a novel carbon based adsorbent.](#) In: **IIUM Research, Innovation & Invention Exhibition (IRIIE 2010)**
- 2010 [High yield Cellulosic Citric Acid.](#) In: **IIUM Research, Innovation and Invention Exhibition 2010 (IRIIE 2010)**
- 2009 [Optimisation of arsenic adsorption from water by carbon nanofibres grown on powdered activated carbon impregnated with nickel.](#) In: **3rd International Conference on Chemical and Bioprocess Engineering**
- 2009 [Metal removal from industrial wastewater by a novel carbon nanomaterial..](#) In: **Environmental Science and Technology Conference - ESTEC**
- 2009 [Adsorption of chromium from water by carbon nanotubes grown on powdered activated carbon.](#) In: **International Conference on Sustainable Infrastructure and Built Environment in Developing Countries - SIBE,**
- 2009 [The formation of carbon nanofibers on powdered activated carbon impregnated with nickel..](#) In: **International Conference on Nanoscience and Nanotechnology**
- 2009 [Improvement of existing water quality index in Selangor, Malaysia..](#) In: **2nd International Conference on Water & Flood Management (ICWFM)**

- 2009 [Adsorption of Zn from aqueous solution by activated carbon derived empty fruit bunches: Statistical approach.](#) In: **Singapore International Water Week 2009**
- 2009 [Effect of particle size on production of citric acid from oil palm empty fruit bunches as new substrate by wild aspergillus niger.](#) In: **3rd International Conference on Chemical and Bioprocess Engineering (ICCBPE 2009)**
- 2009 [Lignocellulolytic enzymes production: an important phenomenon for the production of citric acid from lignocellulosic substrate through solid state bioconversion.](#) In: **International Conference on Solid Waste Management Technical, Environmental and Socio-economical Contexts - WasteSafe 2009**
- 2009 [Kinetics of solid state bioconversion for the production of Citric Acid from oil palm empty fruit bunches \(abstract only\).](#) In: **International Conference on Chemical and Bioprocess Engineering**
- 2008 [Production of citric acid by local isolates Aspergillus niger through solid state bioconversion of oil palm empty fruit bunches.](#) In: **58th Canadian Chemical Engineering Conference**
- 2008 [Evaluation of fungal mixed cultures for production of citric acid using empty fruit bunches by solid state bioconversion.](#) In: **2nd International Conference on Advancement in Science and Technology (iCAST),**
- 2008 [Effect of pretreatment on production of citric acid from oil palm empty fruit bunches as substrate by wild aspergillus niger.](#) In: **22nd Symposium of Malaysian Chemical Engineers (SOMChE 2008)**
- 2007 [Optimization of operating conditions of rotary drum bioreactor for lignin peroxidase production by solid state .](#) In: **World Engineering Congress**
- 2007 [Optimization of process parameters to maximize the extraction of disinfectant from betel leaf.](#) In: **Kulliyah of Engineering Research and Innovation Exhibition (KERIE 2007)**
- 2007 [Citric acid from renewable raw material oil palm biomass.](#) In: **Kulliyah of Engineering Research and Innovation Exhibition (KERIE 2007)**

Book

- 2012 [Comparing metals adsorption by carbon adsorbents: evaluating absorption properties of different carbon adsorbents.](#) LAP Lambert Academic Publishing . ISBN 9783848414956
- 2011 [Advances in nanotechnology & its application.](#) IIUM Press . ISBN 9789670225876
- 2011 [Current Research And Development In Biotechnology Engineering at IIUM \(Volume 4\).](#) IIUM Press . ISBN 9789674181369

Book Section

- 2011 [Water sampling and testing for nonpoint source pollution load estimation in Malaysia.](#) In: **Recent advances in bioenvironmental engineering** IIUM Press . ISBN 9789670225852 , pp.174-197
- 2011 [Production of fermentable sugar from lignocellulosic materials using statistical design .](#) In: **Current research and development in biotechnology engineering at IIUM (volume 1)** IIUM Press . ISBN 9789674181505 , pp.225-230

- 2011** [Carbon nanofibers to remove arsenic](#) . In: **Current research and developments in biotechnology engineering at IIUM** IIUM Press . ISBN 9789674181369 , pp.26-31
- 2011** [Carbon nanotubes to remove chromium](#) . In: **Current research and developments in biotechnology engineering at IIUM** IIUM Press . ISBN 9789674181369 , pp.32-37
- 2011** [Carbon nanotubes to remove nickel](#). In: **Current research and developments in biotechnology engineering at IIUM** IIUM Press . ISBN 9789674181369 , pp.38-43
- 2011** [Regeneration of Carbon Nano Tubes \(CNT\) in cadmium sorption from water](#). In: **Advances in nanotechnology & its application** IIUM Press . ISBN 9789670225876 , pp.98-113
- 2011** [Carbon nanofibers to remove nickel](#) . In: **Current research and developments in biotechnology engineering at IIUM** IIUM Press . ISBN 9789674181369 , pp.50-53
- 2011** [Adsorption of cadmium by CNTS grown on GACS](#) . In: **Current research and developments in biotechnology engineering at IIUM** IIUM Press . ISBN 9789674181369 , pp.59-62
- 2011** [Performance of CNTS column in removing lead from water](#) . In: **Current research and developments in biotechnology engineering at IIUM** IIUM Press . ISBN 9789674181369 , pp.63-67
- 2011** [Application of carbon nanotubes impregnated on activated carbon for cadmium removal from aqueous solution](#) . In: **Current research and developments in biotechnology engineering at IIUM** IIUM Press . ISBN 9789674181369 , pp.109-116
- 2011** [Removal of colour from palm oil mill effluent using Granular Activated Carbon \(GAC\)](#) . In: **Current research and developments in biotechnology engineering at IIUM** IIUM Press . ISBN 9789674181369 , pp.224-231
- 2011** [Adsorption Isotherm of Carbon Nanotubes in removing heavy metals](#). In: **Current research and developments in biotechnology engineering at IIUM** IIUM Press . ISBN 9789674181369 , pp.44-49
- 2011** [Screening of lignocellulosic materials for the production of fermentable sugar](#). In: **Current research and development in biotechnology engineering at IIUM** IIUM Press . ISBN 9789674181505 , pp.72-76