

MOHAMMED SAEDI JAMI



- KULLIYAH OF ENGINEERING
- IIUM Gombak Campus
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ACADEMIC QUALIFICATION

- Doctor of Philosophy in Chemical Engineering
- Master of Engineering in Chemical Engineering
- Chemical Engineering

TEACHING RESPONSIBILITIES

ADVANCED BIOLOGICAL WASTEWATER TREATMENT PLANT DESIGN	2016/2017 2017/2018
ADVANCED BIOSEPARATION PROCESSES	2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015
BIOCHEMICAL ENGINEERING FUNDAMENTALS	2012/2013
BIOLOGICAL WASTE TREATMENT DESIGN	2009/2010 2010/2011 2011/2012 2012/2013 2013/2014
DRINKING WATER QUALITY & TREATMENT PROCESSES	2008/2009 2013/2014
ENVIRONMENTAL ENGINEERING	2018/2019 2019/2020 2020/2021
ENVIRONMENTAL MANAGEMENT ENGINEERING	2010/2011
HEAT AND MASS TRANSFER	2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
INTRODUCTION TO ENVIRONMENTAL ENGINEERING	2018/2019 2019/2020
Integrated Design Project	2018/2019
MSC SEMINAR	2009/2010
PROJECT I	2018/2019
PROJECT II	2008/2009 2009/2010 2010/2011 2011/2012 2018/2019
SEMINAR	2018/2019
SEPARATION PROCESSES FOR BIOCHEMICAL PRODUCTS	2007/2008 2008/2009 2009/2010

THERMODYNAMICS	2007/2008
TOXIC & HAZARDOUS WASTE MANAGEMENT	2015/2016
TOXIC AND HAZARDOUS WASTE MANAGEMENT	2016/2017 2017/2018 2019/2020 2020/2021
TRANSPORT PHENOMENA	2007/2008 2008/2009 2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015
WASTE WATER RECLAMATION AND REUSE	2016/2017 2018/2019 2019/2020
WASTEWATER ENGINEERING	2012/2013
WASTEWATER RECLAMATION AND REUSE	2008/2009 2009/2010 2016/2017
WATER TREATMENT PLANT DESIGN	2018/2019

RESEARCH PROJECTS

In Progress

- 2019 - Present** Electroforced Sedimentation of Biosolids Using Moringa Oleifera Seed Powder as Renewable Dewatering Aid
- 2017 - Present** Upscaling the Production of Fish Feed from Palm Kernel Cake and Sargassum
- 2016 - Present** Defatted Extracts of Moringa Oleifera Seeds: Comparative Optimization Studies as a Phytodisinfectant
- 2015 - Present** Development of Pilot Scale Phytochemical Disinfection Process for Surface Water Treatment by Moringa Oleifera Seeds
- 2004 - Present** Bio-Environmental Engineering Research Centre (BERC)
- Unknown - Present** ASSESSMENT AND REHABILITATION OF SUNGAI PUSU BY BIO-NANOTECHNOLOGY APPROACH FOR WATER QUALITY IMPROVEMENT

Completed

- 2016 - 2020** Defatted Extracts of Moringa Oleifera Seeds: Comparative Optimization Studies as a Phytodisinfectant
- 2015 - 2018** Development of Pilot Scale Phytochemical Disinfection Process for Surface Water Treatment by Moringa Oleifera Seeds
- 2013 - 2015** Wastewater Reclamation & Reuse of Treated Palm Oil Mill Effluent (POME) as Process Water Using Hybrid Adsorption-Filtration System
- 2013 - 2016** Investigation of Electroosmotic Dewatering Mechanism of Water and Wastewater Treatment Plants Sludge
- 2012 - 2015** Investigation of a Hybrid Adsorption and Membrane System for Water Reclamation and Reuse from Palm Oil Mill Effluent (POME)

- 2011 - 2014** Enzymatic Transesterification Process for Biodiesel Production using Renewable Source of Sludge Palm Oil in a Batch Reactor
- 2011 - 2015** Investigation of Disinfection Properties of Processed Moringa Oleifera Seeds for Potential Application in Water Treatment
- 2011 - 2014** RU 2011:Pollution Load Determination,Assessment and Management in IIUM River through Development of QUAL2K Water Model.
- 2010 - 2016** Upscaling Pilot Plant to Process Moringa Oleifera Seeds for Production of Moringa Oil, Bio Flocculants & Feedstock by Patented IP Technology
- 2010 - 2013** Kinetic Studies of Recombinant Bromelain
- 2009 - 2012** Thermal and Dispersion Stability of Carbon Nanotubes (SW-CNT)-Carboxymethyl-Cellulose(CMS) in Aqueous
- 2009 - -1** Study and Recommend of Integrated Scheduled Waste Management System in Kuala Lumpur
- 2008 - 2012** Development of Model for the Dewatering of Wastewater Sludge/Biosolids using Electroosmotic technique
- 2008 - 2010** Study of Membrane Bioreactor in Wastewater Treatment
- 2008 - 2012** Development of Artificial Neural Network Model for the Analysis of Wastewater Treatment

PUBLICATIONS

Article

- 2021** [Analysis of electrokinetic response of solid-liquid mixture during expression operation.](#) Separation and Purification Technology , 256 pp.1-10
- 2020** [Role of electrocoagulation in wastewater treatment: a developmental review.](#) Journal of Water Process Engineering , 37 pp.1-11
- 2020** [Effects of pH, dosage and contact time on boron removal from synthetic saline water using Moringa oleifera seeds.](#) IIUM Engineering Journal , 21 (2) pp.12-24
- 2020** [Investigating the use of date seed for removal of boron from seawater.](#) Biological And Natural Resources Engineering Journal , 3 (2) pp.55-73
- 2020** [Rainwater harvesting quality assessment and evaluation: IIUM case study.](#) IIUM Engineering Journal , 21 (1) pp.12-22
- 2020** [Modeling of cu\(ii\) adsorption from an aqueous solution using an artificial neural network \(ann\).](#) Molecules , 25 (3263) pp.1-15
- 2020** [Effective bioconversion of sewage treatment plant sludge by pure bacterial culture: an optimization study.](#) Malaysian Journal of Water (MJW) , 1 (1) pp.30-37

- 2020** [Effect of \$\gamma\$ -methacryloxypropyltrimethoxysilane \(MPS\) and tetraethoxysilane \(TEOS\) towards preparation of oil absorbent foams from polyvinyl alcohol \(PVA\) reinforced with microfibrillated cellulose \(MFC\).](#) Journal of Renewable Materials , 8 (7) pp.739-757
- 2020** [The role of nanoadsorbents and nanocomposite adsorbents in the removal of heavy metals from wastewater: a review and prospect.](#) Pollution
- 2019** [Optimization of process parameters in mixed sulfide oxidation bacterial culture using response surface methodology as a tool.](#) Journal of King Saud University - Science , 31 (4) pp.836-843
- 2019** [Selection of various coagulants for sugar industry wastewater treatment.](#) Biological and Natural Resources Engineering Journal , 2 (1) pp.1-9
- 2019** [Elemental and chemical composition of Moringa oleifera husk extracts.](#) Journal of Chemical Engineering and Industrial Biotechnology , 5 (October 2018 - March 2019) pp.74-78
- 2019** [Bauxite mining and refinery: investigating prospective red mud management strategies.](#) Journal of Engineering Science and Technology , Special Issue on SU18 pp.120-134
- 2019** [Adsorption studies of graphene oxide for lead removal from synthetic wastewater.](#) Biological and Natural Resources Engineering Journal , 2 (2) pp.21-36
- 2019** [Optimization process of moringa oleifera seed extract using artificial neural network \(ANN\).](#) Malaysian Journal of Fundamental and Applied Sciences , 15 (2 (March-April)) pp.254-259
- 2019** [Optimization and activation of renewable durian husk for biosorption of lead\(II\) from an aqueous medium.](#) Journal of Chemical Technology & Biotechnology , 94 (5) pp.1384-1396
- 2019** [Constant pressure expression of power law non-Newtonian fluid/solid mixture.](#) Journal of the Taiwan Institute of Chemical Engineers , 94 pp.37-42
- 2019** [Texture Profile Analysis \(TPA\) of the jelly dessert prepared from halal gelatin extracted using High Pressure Processing \(HPP\).](#) Malaysian Journal of Fundamental and Applied Sciences , 15 (4 (July-August)) pp.604-608
- 2019** [Screening of electrocoagulation process parameters for treated palm oil mill effluent using minimum-runs resolution IV design.](#) International Journal of Environmental Science and Technology , 16 (2) pp.811-820
- 2018** [Investigation of bioflocculant as dewatering aid in sludge treatment.](#) IIUM Engineering Journal , 19 (1) pp.15-23
- 2018** [Feasibility of using kaolin suspension as synthetic sludge sample.](#) Journal of Advanced Research in Fluid Mechanics and Thermal Sciences , 48 (1) pp.25-39
- 2018** [Utilization of renewable durian peels for biosorption of zinc from wastewater.](#) Journal of Environmental Chemical Engineering , 6 (2) pp.2528-2539
- 2018** [Screening of parameters for solid-state fermentation of Aspergillus niger producing cellulose using sugarcane bagasse as substrate.](#) Biological and Natural Resources Engineering Journal , 1 (1) pp.26-35

- 2018** [Scale deposits from palm oil mill effluent \(POME\) treatment and various other industries: A developmental review.](#) Journal of Oil Palm Research , 30 (3) pp.361-365
- 2018** [Factorial analysis of growth parameters for mesophilic bacterium , Pseudomonas putida \(ATCC 49128\).](#) Biological And Natural Resources Engineering Journal , 01 (01) pp.50-57
- 2018** [Improvement of biogas upgrading process using chemical absorption at ambient conditions.](#) Jurnal Teknologi , 80 (1) pp.107-113
- 2018** [Eco-friendly Industrial wastewater treatment: Potential of mesophilic bacterium, Pseudomonas putida \(ATCC 49128\) for hydrogen sulfide oxidation.](#) Journal of Applied Biology & Biotechnology , 6 (3 (May-June)) pp.53-57
- 2018** [Effect of intermittent addition on turbidity removal by polymer flocculant: computer simulation of simplified flocculation model.](#) Journal of Chemical Engineering of Japan , 51 (1) pp.71-78
- 2017** [Flocculation behavior of colloidal suspension by use of inorganic and polymer flocculants in powder form.](#) Journal of Water Process Engineering , 18 pp.169-175
- 2017** [Cake compressibility analysis of BPOME from a hybrid adsorption microfiltration process.](#) Water Environment Research , 89 (4) pp.292-300
- 2017** [Screening of effective markers for Mesophilic bacterium growth using factorial experimental design.](#) International Journal of Bio-Science and Bio-Technology , 9 (3) pp.59-74
- 2017** [Microbial interactions in response to sulfide effect on mesophilic bacterial mixed culture \(BMC\) growth.](#) Journal of Advanced Research in Materials Science , 30 (1) pp.10-20
- 2017** [Biological sulfide oxidation and its impact on cell biomass synthesis by Mesophilic bacterium bacillus cerues \(ATCC 14579\).](#) Journal of Chemical Engineering and Industrial Biotechnology (JCEIB) , 1 pp.83-96
- 2017** [Simplified flocculation model for inorganic and polymer flocculants.](#) Separation Science and Technology , 52 (18) pp.2802-2814
- 2017** [The application of multiphase DEM for the prediction of fat, oil and grease \(FOG\) deposition in sewer pipe lines.](#) Journal of Advanced Research in Fluid Mechanics and Thermal Sciences , 39 (1) pp.9-16
- 2017** [Exploring the potential of POME scale deposits as an alternative source of phosphorous mineral and a mean to save the environment.](#) Palm Oil Engineering Bulletin (124 (July-Sept)) pp.21-24
- 2017** [Improvement of immobilization of fat, oil and grease \(FOG\) by calcium alginate.](#) Journal of Advanced Research in Fluid Mechanics and Thermal Sciences , 38 (1) pp.10-15
- 2017** [Multivariate regression analysis of disinfection kinetics using Moringa oleifera defatted seed extract.](#) ARPN Journal of Engineering and Applied Sciences , 12 (7) pp.2248-2253

- 2017** [Novel method for gelatin extraction of various local fish using High Pressure Processing \(HPP\).](#) International Food Research Journal (IFRJ) , 24 (Suppl.) pp.S533-S539
- 2017** [Optimization of process condition for extraction of gelatin from red tilapia skin \(Oreochromis niloticus\) by High Pressure Processing \(HPP\).](#) International Food Research Journal (IFRJ) , 24 (Suppl.) pp.S340-S347
- 2016** [Mechanism of clarification of colloidal suspension using composite dry powdered flocculant.](#) Journal of Water Process Engineering , 11 pp.32-38
- 2016** [Turbidity and suspended solids removal from highstrength wastewater using high surface area adsorbent: mechanistic pathway and statistical analysis.](#) Cogent Engineering , 3 (1) pp.1162384-1-1162384-18
- 2016** [Assessment of sulfide concentration effects in a microoxygenated condition on the growth and removal by pseudomonas putida \(ATCC 49128\).](#) Journal of Advanced Research in Materials Science , 27 (1) pp.1-10
- 2016** [A review of chemical absorption of carbon dioxide for biogas upgrading.](#) Chinese Journal of Chemical Engineering , 24 (6) pp.693-702
- 2016** [Studies on pore blocking mechanism and technical feasibility of a hybrid PAC-MF process for reclamation of irrigation water from biotreated POME.](#) Separation Science and Technology pp.1-16
- 2016** [Optimizing the preparation conditions of cross-linked enzyme aggregates \(CLEA\)-protease.](#) Bioresources and Bioprocessing , 3 (3) pp.1-11
- 2016** [Electrokinetic sedimentation: a review.](#) International Journal of Environmental Technology and Management , 19 (5-6) pp.374-391
- 2016** [Extraction of microcrystalline cellulose \(MCC\) from cocoa pod husk via alkaline pretreatment combined with ultrasonication.](#) International Journal of Applied Engineering Research , 11 (19) pp.9876-9879
- 2016** [Optimization of manganese reduction in biotreated POME onto 3A molecular sieve and clinoptilolite zeolites.](#) Water Environment Research , 88 (6) pp.566-576
- 2016** [Technical feasibility study of a low-cost hybrid PAC-UF system for wastewater reclamation and reuse: a focus on feedwater production for low-pressure boilers.](#) Environmental Science and Pollution Research , 23 (22) pp.22554-22567
- 2016** [Statistical optimization of ethanol-based biodiesel production from sludge palm oil using locally produced candida cylindracea lipase.](#) Waste and Biomass Valorization , 7 (1) pp.87-95
- 2016** [Effective sludge dewatering using Moringa Oleiferaseed extract combined with aluminium sulfate.](#) ARPN Journal of Engineering and Applied Sciences , 11 (1) pp.372-381
- 2016** [Moringa oleifera seed extract: A review on its environmental applications.](#) International Journal of Applied Environmental Sciences , 11 (6) pp.1469-1486
- 2016** [Electrostatic biosorption of COD, Mn and H₂S on EFB-based activated carbon produced through steam pyrolysis: an analysis based on surface chemistry, equilibria and kinetics.](#) Waste and Biomass Valorization , 7 (1) pp.109-124

- 2016** [Study of the effects of process parameters on electroforced sedimentation in solid-liquid separation using response surface methodology.](#) Waste and Biomass Valorization , 7 (3) pp.583-591
- 2015** [Development of an immobilized biocatalyst with lipase and protease activities as a multipurpose cross-linked enzyme aggregate \(multi-CLEA\).](#) Process Biochemistry , 50 (12) pp.2144-2157
- 2015** [A two-step optimization and statistical analysis of COD reduction from biotreated POME using empty fruit bunch-based activated carbon produced from pyrolysis.](#) Water Quality, Exposure and Health , 7 (4) pp.603-616
- 2015** [Improving slurry dewatering performance of basket centrifuge: discharge of supernatant using bypass filter medium.](#) Journal of Chemical Engineering of Japan , 48 (12) pp.966-969
- 2015** [Effect of flow path structure on solid/liquid separation under electric field.](#) Separation and Purification Technology , 156 (pt.1) pp.84-91
- 2015** [Analysis of the efficiency of sludge dewatering using moringa oleifera as natural phytoagulant.](#) International Journal of Research in Chemical, Metallurgical and Civil Engineering (IJRCMCE) , 2 (2) pp.111-117
- 2015** [Consolidation behaviour of thick suspension in centrifugal dewatering with and without supernatant.](#) Separation and Purification Technology , 150 pp.223-228
- 2014** [Removal of organics from treated palm oil mill effluent \(POME\) using powdered activated carbon \(PAC\).](#) Advances in Environmental Biology , 8 (3) pp.590-595
- 2014** [Modelling and simulation of energy-saving potential of Sequential Batch Reactor \(SBR\) in the abatement of ammoniacal-nitrogen and organics.](#) Journal of Pure and Applied Microbiology , 8 (Spl.1) pp.809-814
- 2014** [Constant-current electroosmotic dewatering of superabsorbent hydrogel.](#) Colloids and Surfaces A: Physicochemical and Engineering Aspects , 440 pp.116-121
- 2014** [Antibacterial property of moringa oleifera seed extract: comparative study of crude extract and membrane processed extract.](#) Journal of Pure and Applied Microbiology , 8 (sp.ed) pp.845-851
- 2014** [Pollution load management to improve water quality of Sungai Pusu .](#) Advances in Environmental Biology , 8 (3) pp.549-552
- 2014** [A positive aspect of man's concious.](#) Science International Lahore , 26 (5) pp.2561-2562
- 2014** [Effect of dewatering aid dosage in electroforced sedimentation.](#) International Journal of Chemical and Environmental Engineering , 5 (5) pp.290-293
- 2014** [Evaluation of solvent system for the enzymatic synthesis of ethanol-based biodiesel from sludge palm oil \(SPO\).](#) Bioresource Technology , 154 pp.155-161
- 2014** [Morphological synthesis and environmental application of ZSM-5 zeolite crystals from combined low-water and fluoride syntheses routes.](#) Advances in Environmental Biology , 8 (3) pp.613-625
- 2014** [Optimization of spray drying process conditions for recombinant stem bromelain.](#) Advances in Environmental Biology , 8 (3) pp.696-703

- 2014** [Mechanism of fat, oil and grease \(FOG\) deposit formation in sewer systems.](#) Advances in Environmental Biology , 8 (3) pp.815-820
- 2014** [Problems, control, and treatment of fat, oil, and grease \(FOG\): a review.](#) Journal of Oleo Science , 63 (8) pp.747-752
- 2014** [Extraction and screening of various hydrolases from Malaysian channel catfish \(*Ictalurus punctatus*\) viscera.](#) International Journal of Chemical and Environmental Engineering , 5 (2) pp.79-82
- 2014** [Comparative and optimization studies of adsorptive strengths of activated carbons produced from steam- and CO₂-activation for BPOME treatment.](#) Advances in Environmental Biology , 8 (3) pp.603-612
- 2013** [In-vitro antibacterial activity of crude defatted Moringa Oleifera seed extract: kill time study.](#) Australian Journal of Basic and Applied Sciences , 7 (6) pp.149-153
- 2013** [Investigating antibacterial activity of defatted Moringa Oleifera seed extract on selected gram-negative and gram-positive microbes.](#) International Journal of Academic Research , 5 (1) pp.101-106
- 2013** [Boiler-feed and process water reclamation from Biotreated Palm Oil Mill Effluent \(BPOME\): A developmental review .](#) Chemical and Biochemical Engineering Quarterly , 27 (4) pp.477-489
- 2013** [Statistical optimization of process conditions for disinfection of water using defatted moringa oleifera seed extract.](#) World Academy of Science, Engineering and Technology , 7 (9) pp.701-706
- 2013** [Zero liquid discharge and water conservation through water reclamation & reuse of biotreated palm oil mill effluent: A review.](#) International Journal of Academic Research , 5 (4) pp.170 -183
- 2013** [Enzymatic biodiesel production from sludge palm oil \(SPO\) using locally produced *Candida cylindracea* lipase .](#) African Journal of Biotechnology , 12 (31) pp.4966-4974
- 2013** [Application of electroosmosis for sludge dewatering — a review.](#) Drying Technology , 31 (2) pp.170-184
- 2013** [Kinetic studies on recombinant stem bromelain.](#) Advances in Enzyme Research , 1 (3) pp.52-60
- 2012** [The potential of artificial neural network \(ANN\) in optimizing media constituents of citric acid production by solid state bioconversion.](#) International Food Research Journal , 19 (2) pp.491-497
- 2012** [Comparative study of the use of coagulants in biologically treated palm oil mill effluent \(POME\) .](#) Advances in Natural and Applied Sciences , 6 (5) pp. 646-650
- 2012** [Bromelain production: Current trends and perspective.](#) Archives Des Sciences , 65 (11) pp.369-399
- 2012** [Multiple inputs artificial neural network model for the prediction of wastewater treatment plant performance.](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.62-69

- 2012** [Enhancement of dewatering properties of Kaolin suspension by using Cationic Polyacrylamide \(PAM-C\) Flocculant and Surfactants.](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.70-73
- 2012** [The potential of artificial neural network \(ANN\) in optimizing media constituents of citric acid production by solid state bioconversion.](#) International Food Research Journal , 19 (2) pp.491-497
- 2012** [Recombinant bromelain production in Escherichia coli: process optimization in shake flask culture by response surface methodology.](#) AMB Express , 2 (12) pp.1-9
- 2011** [Recovery of recombinant bromelain from Escherichia coli BL21-AI.](#) African Journal of Biotechnology , 10 (81) pp. 18829-18832
- 2011** [Enhanced electroforced sedimentation of various solid-liquid systems.](#) African Journal of Biotechnology , 10 (81) pp.18906-18909
- 2011** [Simulation of ammoniacal nitrogen effluent using feedforward multilayer neural networks.](#) African Journal of Biotechnology , 10 (81) pp.18755-18762
- 2011** [Statistical analysis for malachite green removal using palm-kernel-shell-activated carbon.](#) Australian Journal of Basic and Applied Sciences , 5 (1) pp.87-91
- 2011** [The optimally mobile Muslim experts in the service of the Ummah..](#) IJUM Engineering Journal , 12 (5) pp.173-178
- 2011** [Integrated scheduled waste management system in Kuala Lumpur using expert system.](#) African Journal of Biotechnology , 10 (81) pp.18781-18787
- 2010** [Tertiary treatment of biologically treated palm oil mill effluent \(POME\) using UF membrane system: effect of MWCO and transmembrane pressure.](#) International Journal of Chemical and Environmental Engineering , 1 (2) pp.108-112
- 2010** [Analysis of combined electroosmotic dewatering and mechanical expression operation for enhancement of dewatering.](#) Drying Technology , 28 (7) pp.881-889
- 2008** [Effect of operating parameters on the effectiveness of electric field enhanced separations.](#) Drying Technology , 26 (10) pp.1068-1078
- 2008** [A new method for the theoretical analysis of electroforced sedimentation using Terzaghi-Voigt combined model.](#) Separation Science and Technology , 43 (5) pp.979-995
- 2007** [Theoretical analysis of centrifugal dewatering of superabsorbent hydrogels using Terzaghi-Voigt combined model.](#) European Polymer Journal , 43 (12) pp.5026-5033
- 2007** [Analysis of constant-current electro-osmotic dewatering of various solid-liquid systems by considering the creep deformation.](#) Separation and Purification Technology , 58 (2) pp.274-281
- 2007** [Artificial neural network model to predict compression-permeability characteristics of solid-liquid systems.](#) FILTRATION , 7 (4) pp.337 -344
- 2004** [Filtration behaviors in constant-rate microfiltration of flocculated sewage secondary effluent accompanied with combined operation of physical and chemically enhanced backwashing .](#) Journal of the Society of Powder Technology, Japan , 41 (11) pp.798-805

2004 [Filtration behaviors in microfiltration with cyclic backwashing of sewage secondary effluent under constant rate and constant pressure conditions](#) . Kagaku Kogaku Ronbunshu , 30 (5) pp.561-567

2003 [Filtration behaviors in constant rate microfiltration with cyclic backwashing of coagulated sewage secondary effluent](#). Separation Science and Technology , 38 (4) pp.947-962

Conference or Workshop Item

2020 [Modelling of constant pressure expression of homogeneous semi-solid material](#). In: **Kulliyah of Engineering Research, Innovation and Commercialization Exhibition (KERICE)**

2020 [Fabrication and characterization of graphene oxide-polymer nanocomposite membrane as adsorbent for lead removal](#). In: **Kulliyah of Engineering Research, Innovation and Commercialization Exhibition (KERICE)**

2020 [Advances In antifouling strategies in crossflow ultrafiltration: a brief review](#). In: **2nd International Research Conference on Applied Sciences and Engineering (2nd IRCASE 2020)**

2020 [Dynamic adsorption of lead by novel graphene oxide-polyethersulfone nanocomposite membrane in fixed-bed column](#). In: **2nd International Research Conference on Applied Sciences and Engineering (2nd IRCASE 2020)**

2020 [State of the art and recent progresses in membrane technologies for water/waste water treatment](#). In: **Expert Talk Series No 1**

2020 [Optimization of the Ultrasound-Assisted Extraction \(UAE\) of antioxidant activity: a review](#). In: **1st International Conference on Biomass Utilization and Sustainable Energy 2020**

2020 [Electrocoagulation \(EC\) process to sustainably Treat Palm Oil Mill Effluent \(POME\) for wastewater reuse](#). In: **Kulliyah of Engineering Research, Innovation and Commercialization Exhibition (KERICE) 2020**

2019 [Monitoring techniques for mechanical for mechanical expression using electrokinetic response caused by liquid flow through filter cake](#). In: **FILTECH 2019**

2019 [Potential of electrokinetic response for the analysis of solid-liquid mixture during mechanical expression](#). In: **18th Asian Pacific Confederation of Chemical Engineering Congress (APCCHE 2019)**

2019 [Development of effective lead removal from wastewater by graphene oxide](#). In: **Graphene Malaysia 2019**

2019 [IIUM Moringa technology for water treatment and ready-to-use therapeutic food for the treatment of malnutrition](#). In: **Hyper-Interdisciplinary Conference 2019**

2018 [Mitigation of struvite formation in palm oil mill effluent \(POME\) treatment facilities](#). In: **Lca Food 2018 In Conjunction with Lca Agri Food Asia 2018 and ICGSI 2018**

- 2018 [Optimization and activation of renewable durian husk For biosorption of Pb\(ii\) from wastewater.](#) In: **4th International Conference of Chemical Engineering & Industrial Biotechnology (ICCEIB 2018)**
- 2018 [Electrokinetic response of solid-liquid mixture during filtration and expression.](#) In: **European Conference on Fluid-Particle Separation (FPS 2018)**
- 2018 [Analysis of centrifugal deliquoring with cylindrical filter medium.](#) In: **European Conference on Fluid-Particle Separation (FPS 2018)**
- 2018 [Analysis of fractal structure of flocs formed by composite powder flocculant.](#) In: **European Conference on Fluid-Particle Separation (FPS 2018)**
- 2018 [Physicochemical characteristics of struvite crystals formed in palm oil mill effluent anaerobic digester.](#) In: **5th International Conference on Biotechnology Engineering (ICBioE 2018)**
- 2018 [Texture Profile Analysis \(TPA\) of the jelly dessert prepared from Halal gelatin extracted using High Pressure Processing \(HPP\).](#) In: **International Conference on Halal Innovation in Products and Services 2018 (i-CHIPS 2018)**
- 2018 [Bauxite mining and refinery: investigating prospective of red mud management strategies.](#) In: **International Engineering Research Conference 2018**
- 2018 [Optimization of process parameters for boron adsorption from sea water using Moringa oleifera seeds.](#) In: **5th International Conference on Biotechnology Engineering (ICBioE 2018)**
- 2018 [Screening of boron adsorption potential of various date seed preparation methods.](#) In: **5th International Conference on Biotechnology Engineering (ICBioE 2018)**
- 2018 [Development of ready to use therapeutic food for the treatment of malnutrition.](#) In: **20th IMAM Annual Scientific Conference**
- 2018 [Specific cake resistance as a vital index for efficient membrane filtration systems.](#) In: **18th International HSE Biennial Conference on the Oil & Gas Industry in Nigeria**
- 2018 [The use of effective microorganisms \(EM\) for pretreatment of wet market wastewater.](#) In: **International Conference Biotechnology Engineering, ICBioE '18**
- 2017 [Kaolinite sludge dewatering using different coagulants from Moringa oleifera seeds.](#) In: **30th Symposium of Malaysian Chemical Engineers (SOMChE 2017)**
- 2017 [Electrokinetic aspects of mechanical expression.](#) In: **12th International Symposium on Electrokinetics**
- 2017 [Inactivation disinfection property of Moringa Oleifera seed extract: Optimization and kinetic studies.](#) In: **7th International Conference on Environment and Industrial Innovation**
- 2017 [Fractal structure of floc formed by composite powder flocculant.](#) In: **The 11th International Conference on Separation Science and Technology (ICSST 17)**

- 2017 [Development of new deliquoring method with bypass discharge mechanism in centrifuge.](#) In: **The 11th International Conference on Separation Science and Technology (ICSST 17)**
- 2017 [Electrokinetic response of solid-liquid mixture during mechanical expression.](#) In: **The 11th International Conference on Separation Science and Technology (ICSST 17)**
- 2016 [Upward dead-end filtration of solid/liquid mixture containing fine-bubbles.](#) In: **12th World Filtration Congress (WFC'12)**
- 2016 [A preliminary study on internal filtration mechanism by using nonwoven filter medium.](#) In: **12th World Filtration Congress (WFC'12)**
- 2016 [The effect of operating conditions on turbidity removal by polymeric flocculant.](#) In: **12th World Filtration Congress (WFC'12)**
- 2016 [Expression of non-Newtonian fluid/solid mixture.](#) In: **12th World Filtration Congress (WFC'12)**
- 2016 [Cross-flow microfiltration of a high strength industrial wastewater: Modelling of membrane fouling mechanisms.](#) In: **Qatar Foundation Annual Research conference**
- 2016 [Biogas upgrading by chemical absorption using a packed column apparatus.](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2016 [Role of flocculation aid particles in clarification of colloidal suspension using composite dry powdered flocculant.](#) In: **FILTECH 2016**
- 2016 [constant pressure expression of power law non-newtonian fluid/solid mixture.](#) In: **FILTECH 2016**
- 2016 [Moringa oleifera seed extract: A halal friendly alternative water disinfection mechanism.](#) In: **Putrajaya International Built Environment, Technology and Engineering Conference (PIBEC2016)**
- 2016 [Characteristic study of palm oil mill effluent crystals.](#) In: **2016 National Seminar on Palm Oil Milling, Refining, Environment and Quality (POMREQ)**
- 2016 [Isolation and detection of biosurfactant producing bacteria from Palm Kernel Cake \(PKC\).](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2016 [Optimum conditions for immobilization of fat, oil and grease \(fog\) by Calcium alginate.](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2016 [A simulation study for the upgrading of biogas using aqueous ammonia.](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2016 [Extraction of various fish gelatin assisted by High Pressure Processing \(HPP\).](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**

- 2016 [Preliminary study on the application of multiphase DEM for the prediction of fat,oil and grease \(FOG\) deposition in sewer pipe lines.](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2016 [Investigation of bioflocculant as renewable dewatering aid in sludge treatment.](#) In: **4th International Conference on Biotechnology Engineering 2016 (ICBioE 2016)**
- 2015 [Engineering education focusing on environmental management in Malaysia.](#) In: **FEIIC-International Conference on Engineering Education and Research (FICEER 2015)**
- 2015 [Analysis of cake compressibility of high fouling feedwater from a hybrid PAC-MF process.](#) In: **International Conference on Fluids and Chemical Engineering (FluidsChE 2015)**
- 2015 [Electroosmotic dewatering: an efficient method of sludge management.](#) In: **Water Malaysia 2015**
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