

HAMZAH MOHD. SALLEH



- INTERNATIONAL INSTITUTE FOR HALAL RESEARCH AND TRAINING
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KELAYAKAN AKADEMIK

- Ph.D in Chemistry
- Master in Chemistry
- Bachelor in Biochemistry
- Diploma in Secondary School Honour Graduation Diploma

TANGGUNGJAWAB MENGAJAR

ADVANCED BIOSEPARATION PROCESSES	2009/2010 2013/2014 2015/2016 2016/2017 2017/2018
ADVANCED BIOSEPERATION PROCESSES	2015/2016 2016/2017 2017/2018
BIOCHEMISTRY I	2002/2003 2003/2004 2004/2005 2005/2006 2006/2007
BIOTECH. ENGINEERING LAB III	2007/2008 2008/2009 2009/2010 2010/2011
BIOTECHNOLOGY ENGINEERING LAB III	2012/2013 2013/2014
ENGINEERING MATERIALS	1996/1997 1997/1998
ENZYME TECHNOLOGY	2006/2007 2007/2008 2009/2010 2010/2011 2011/2012
FOOD PROCESS ENGINEERING	2010/2011
FOUNDATION OF SCIENCE	1997/1998 1998/1999 2000/2001 2001/2002
GENETIC ENGINEERING	2013/2014
GENOMICS AND FUNCTIONAL GENOMICS	2012/2013
HALAL INDUSTRY ECOSYSTEM	2019/2020
ISLAMIZATION OF ENGINEERING STUDIES	2019/2020 2020/2021
MOLECULAR BIOLOGY & BIOCHEMICAL TECH.	2002/2003 2003/2004 2004/2005 2005/2006 2007/2008
MOLECULAR BIOLOGY AND GENETIC ENGINEERING	2013/2014
MOLECULAR FARMING (BIOMOLECULAR)	2015/2016 2016/2017

PROJECT I	2003/2004 2004/2005 2005/2006
PROJECT II	2003/2004 2005/2006
PROTEIN ENGINEERING	2006/2007 2008/2009 2009/2010 2010/2011
RESEARCH METHODOLOGY IN BIOTECHNOLOGY ENGIN	2012/2013
SEPARATION PROCESSES FOR BIOCHEMICAL PRODUCTS	2004/2005 2006/2007 2007/2008 2009/2010 2010/2011 2011/2012 2012/2013
SEPARATION PROCESSES II	2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018
SUSTAINABLE DEVELOPMENT: ISSUES, POLICIES AND PRACTICES	2020/2021
VALUES, TECHNOLOGY AND SOCIETY	2019/2020 2020/2021
VALUES,TECHNOLOGY AND SOCIETY	1999/2000

PROJEK PENYELIDIKAN

Completed

2020 - 2020	Taiwan-INHART Halal Certification Authority (TIHCA)
2017 - 2019	Fractionation and partial purification of active compounds from agarwood branch extract responsible for the cytotoxic/anticancer activity
2016 - 2019	Development of Pilot Scale Enzymatic Hydroesterification Process for Biodiesel Production from Sludge Palm Oil
2015 - 2017	Upscaling the Production of Novel Fucoxanthin from Malaysian Brown Algae for food and Pharmaceutical Applications
2015 - 2019	Straightforward Synthesis of Injectable Calcium Phosphate Cement Through Novel Hydrothermal Technique for Bone Filling Materials
2015 - 2018	Development of Pilot Scale Phytochemical Disinfection Process for Surface Water Treatment by Moringa Oleifera Seeds
2015 - 2018	Directed evolution of a beta-glucoside kinase for sulfur-phosphorus bond formation
2014 - 2018	Investigation of Activity and Loading Capability of Lipase Enzyme Immobilized on Nano- and Micro- Polymer Substrates
2013 - 2018	Production of Non-Thermally Processed Alternative Ingredients for Halal Food Products
2013 - 2016	Development of Carbon Infiltrated Iron Ore using Bio-tar from Sawdust Pyrolysis

- 2013 - 2018** Functional Metagenomic Approach for the Discovery of Untapped Cellulose- and Xylan-Degrading Enzymes from Fresh Palm Oil Mill Effluent (POME)
- 2013 - 2017** Regulated Splicing Systems and Formal Models for Food Authentication
- 2013 - 2017** Prediction and Development of a Thermostable Endoglucanase from *Fusarium oxysporum* using Computational and Experimental Approaches
- 2013 - 2016** Isolation and Characterization of Microfibrillated Cellulose (MFC) Obtained from Cocoa Pod Husks Treated via Fungal Pretreatment Combined with Homogenization
- 2013 - 2016** Investigation of Various Enzyme Compatible Ionic Liquids for Single-Step Pretreatment and Hydrolysis of Oil Palm Biomass to Biofuel
- 2013 - 2018** Production of Non-Thermally Processed Alternative Ingredients for Halal Food Products
- 2013 - 2016** Gene Expression Study of Cytotoxic Properties of Agarwood Branch Extract
- 2013 - 2016** A Novel Phanerochaete Fungal Biofuel Cell For Bioelectricity Generation
- 2013 - 2016** Investigation of Electroosmotic Dewatering Mechanism of Water and Wastewater Treatment Plants Sludge
- 2012 - 2013** Investigation of *Allium Sativum* L.(GARLIC) as an alternative source for glutathione and cysteine production.
- 2012 - 2013** Comparison of Extraction Method for IGFBP-3 Removal from CHO-K1 Spent Media
- 2011 - 2012** Development Of New Media Formulation For The Improvement Of Recombinant Protein Expression In *E.Coli*
- 2011 - 2012** Investigation Of Heat Transfer Effect Of Nanoparticles on Polymerase Chain Reactions (PCR)
- 2011 - 2014** Inoculant Development and Studies of Health Beneficial Effects Gaharu
- 2011 - 2014** Enzymatic Transesterification Process for Biodiesel Production using Renewable Source of Sludge Palm Oil in a Batch Reactor
- 2011 - 2012** Experimental Methods In modern Biotechnology (KVC Project 2011)
- 2011 - 2014** Utilization of Biomass Waste as Energy Source in Iron Making
- 2011 - 2015** Upscaling of Gelatin Coated Microcarrier Beads Fabrication by Using Ultraviolet/Ozone (UVO) system
- 2011 - 2012** Bioprocessing Of Recombinant *E.Coli* Producing Glucuronidase Enzymes
- 2011 - 2015** Biosynthesis and Mechanism of Production of Metal Nanoparticles Using Microbes
- 2011 - 2015** Investigation of Disinfection Properties of Processed *Moringa Oleifera* Seeds for Potential Application in Water Treatment
- 2010 - 2013** In silico designing of thermophilic *Bacillus circulans* xylanase

- 2010 - 2014** Computer Aided Designing of Pyranose 2-Oxidase (P20x)
- 2010 - 2016** Upscaling Pilot Plant to Process Moringa Oleifera Seeds for Production of Moringa Oil, Bio Flocculants & Feedstock by Patented IP Technology
- 2010 - 2013** Investigative Study of Post-Electroporative Biomolecules as Potential Biomarker from Different Animal Cell Lines
- 2010 - 2013** Cloning and characterization of Fusarium oxysporum endoglucanase
- 2010 - 2014** In-Vivo Biofuel Cell
- 2010 - 2013** Kinetic Studies of Recombinant Bromelain
- 2010 - 2010** Writing Article: ?Halal Products and Analysis and Laboratory Management
- 2010 - 2010** Writing Article: ?Halal Compedium Vol. 1 (Peer Reader)?
- 2009 - 2012** Studies on Carotenoids from Local Sources for Food and Nutraceutical Applications
- 2009 - 2011** Development of Gelatin Coated Polyethylene and Polystyrene Microcarrier for Vero Cell Culture
- 2009 - 2012** Production of L-cysteine from Various Parts of Garlic Plant"
- 2009 - 2012** Halal Certification training for Main Kazakhstan
- 2009 - 2011** Optimization of Enzyme Immobilization on Carbon Nanotubes
- 2008 - 2011** Production of Halal Ingredients from Local Sources
- 2008 - 2011** Solubization and Uptake of Dietary Antioxidants for Human Hepatocellular Liver Carcinoma Cell Line and Their Antioxidant Activities.
- 2008 - 2011** Molecular Modelling of enzyme Mechanism and Catalytic Activity of Phytases
- 2008 - 2009** Computational Studies of Thermostability of -Glucuronidase
- 2007 - 2011** Alternative Solution to Sludge Management: Bioconversion of Sewage Sludge for Cellulolytic Enzyme Production
- 2007 - 2008** Halal Training Program (Course Module 1 and 2)
- 2006 - 2011** Production of Powdered Activated Carbon From Palm Empty Fruit Bunch for Removal of Toxic from Wastewater
- 2006 - 2010** Molecular Modelling of Structure and Mechanisms of Glycoside Hydrolases
- 2006 - 2013** International Institute for Halal Research and Training (INHART)
- 2006 - 2012** Bioconversion Of Rice Bran Into High Value Added Myo-Inositol Phosphate Intermediates With Anticancer Properties
- 2006 - 2011** Diverse Bacterial Phytate-Degrading Enzymes for Bioconversion of Plant Biomass Into High Value Added Animal Feed

- 2005 - 2017** Development of Detection Systems for Halal/Haram and GM Food Products using Molecular Approaches
- 2005 - 2008** Metabolic Engineering of Phytate Related Protein Through RNAi Method In Local Rice Varieties
- 2004 - 2010** Integration of Insertion Element IS 1071 within a Defined Phthalate Degrading Bacterial Community
- 2004 - -1** Screening and Characterization of Malaysian Soil Bacteria for Industrially Important Enzymes

In Progress

- 2020 - Present** Taiwan-INHART Halal Certification Authority (TIHCA)
- 2020 - Present** Halal Industry Ecosystem
- 2019 - Present** Determinants of Employee Engagement in a Syari'ah Compliant Workplace
- 2019 - Present** Investigation on cement clinker production using waste heat from molten blast furnace slag
- 2019 - Present** Microcellular Polylactic Acid Biocomposite Foam via Supercritical Carbon Dioxide for Single Use Packaging
- 2019 - Present** Environmental friendly municipal solid waste (MSW) leachate treatment using hydrothermal treatment processing (HTTP)
- 2019 - Present** Developing a Measuring Tool for Islamic Value-based Productivity in Islamic Higher Educational Institution
- 2019 - Present** Revealing Agarwood-based Prescription(s) Documented in Malay Medical Manuscripts
- 2019 - Present** Bioactive compounds of *A.malaccensis* leaf and their mechanistic roles in inflammation and immunomodulation in zebrafish model
- 2019 - Present** Resolving Nutrient Deficiencies among Children and Adolescents of the B40 Community in Selected Schools around Gombak, Malaysia.
- 2018 - Present** Green Approach for Halal Nanoemulsions Production Using Deep Eutectic Solvents on Fish By-Products
- 2018 - Present** Understanding the distribution of chlorinated hydrocarbon dioxygenases in landfill sites using functional metagenomics for bioremediation.
- 2018 - Present** Development of Rating Tool and Audit System for Muslim Friendly Tourism Accommodation Premises Hospitality and Services.
- 2017 - Present** Fractionation and partial purification of active compounds from agarwood branch extract responsible for the cytotoxic/anticancer activity
- 2016 - Present** Development of Pilot Scale Enzymatic Hydroesterification Process for Biodiesel Production from Sludge Palm Oil

- 2015 - Present** Development of Pilot Scale Phytochemical Disinfection Process for Surface Water Treatment by Moringa Oleifera Seeds
- 2015 - Present** Directed evolution of a beta-glucoside kinase for sulfur-phosphorus bond formation
- 2015 - Present** Investigation of Indigenous Biofilm Technology for Simultaneous Pretreatment and Enhanced Biogas Production From Palm oil Mill Effluent
- 2015 - Present** Development of Thermostable and Organic Solvent Tolerant Lipase by Locally Isolated Microbes in Solid State Bioconversion of Palm Kernel Cake
- 2015 - Present** Upscaling the Production of Novel Fucoxanthin from Malaysian Brown Algae for food and Pharmaceutical Applications
- 2014 - Present** Investigation of Activity and Loading Capability of Lipase Enzyme Immobilized on Nano- and Micro- Polymer Substrates
- 2013 - Present** MAQASID AL-SHARI'AH IN HOSPITALITY AND SERVICES
- 2013 - Present** Functional Metagenomic Approach for the Discovery of Untapped Cellulose- and Xylan-Degrading Enzymes from Fresh Palm Oil Mill Effluent (POME)
- 2013 - Present** Production of Non-Thermally Processed Alternative Ingredients for Halal Food Products
- 2006 - Present** New Name: Bio-Process and Molecular Engineering Research Unit (BPMERU) Biomolecular Engineering Research Unit (BioMERU)
- 2006 - Present** Bio-Process and Molecular Engineering Research Unit (BPMERU)
- 2004 - Present** Bio-Environmental Engineering Research Centre (BERC)
- Unknown - Present** Development of Future Antibiotics : Active Pharmaceutical Ingredient Ionic Liquids (API-ILs) with COSMO-RS Based Prediction for Resistant Microbial strains

PENERBITAN

Article

- 2020** [Metabolite profiling of Aquilaria malaccensis leaf extract using liquid chromatography-Q-TOF-mass spectrometry and investigation of its potential antilipoxygenase activity in vitro..](#) Processes , 8 (2) pp.1-22
- 2020** [Optimisation of the maillard reaction of bovine gelatine-xylose model using response surface methodology.](#) Food Research , 4 pp.99-106
- 2020** [Role of halalan thoyyiban consumption.](#) @Halal pp.8-8
- 2020** [Physicochemical properties of dragon fruit peel pectin and citrus peel pectin: a comparison.](#) FOOD RESEARCH , SUPL. 1 (2020) pp.266-273

- 2020 [Your F&B is Halal, but is it Toyyib?.](#) @halal , March-April pp.8-9
- 2020 [Characterization, stability assessment, antioxidant evaluation and cell proliferation activity of virgin coconut oil-based nanostructured lipid carrier loaded with Ficus deltoidea extract.](#) Cosmetics , 7 (4) pp.1-15
- 2020 [New approach of Municipal Solid Waste \(MSW\) leachate treatment using hydrothermal method.](#) TEST Engineering & Management , 83 pp.1117-1121
- 2020 [Ionic liquids: promising solvents for halal industry.](#) Food Research , 4 (Supplementary 1 : Special Issue: Global Halal Sphere Conference 2019) pp.52-62
- 2020 [Phytochemicals with antifungal properties: Cure from nature.](#) Malaysian Journal of Microbiology , 16 (4) pp.323-345
- 2020 [Aquilaria species as potential anti-inflammatory agents-A review on in vitro and in vivo studies.](#) Indian Journal of Natural Products and Resources , 11 (3) pp.141-154
- 2020 [A grand avenue to integrate deep eutectic solvents into biomass processing.](#) Biomass and Bioenergy , 137 (June) pp.1-21
- 2020 [Agarwood branch ethanolic extract: optimal extraction process conditions and cytotoxic effects.](#) Biological and Natural Resources Engineering Journal , 3 (2) pp.7-26
- 2020 [Optimisation of the Maillard reaction of bovine gelatine-xylose model using response surface methodology.](#) Food Research , 4 ((Suppl. 1) (2020)) pp.99-106
- 2020 [In silico approach in risk assessment of nutraceutical properties.](#) Food Research , 4 (suppl.) pp.28-33
- 2020 [Polyamidoamine dendrimers: favorable polymeric nanomaterials for lipase activation.](#) Materials Today Communications , 26 pp.101492
- 2019 [Uninfected agarwood branch extract possess cytotoxic and inhibitory effects on MCF-7 breast cancer cells.](#) Journal of Research in Pharmacy , 23 (1) pp.120-129
- 2019 [Hydrolysis kinetics of oil palm empty fruit bunch in ionic liquids and cellulase integrated system.](#) International Journal of Chemistry , 11 (2) pp.95
- 2019 [Lipase immobilization on fibers grafted with polyglycidyl methacrylate.](#) IIUM Engineering Journal , 20 (1) pp.12-23
- 2019 [Characterization of municipal solid waste in Malaysia for energy recovery.](#) IOP Conference Series: Earth and Environmental Science , 264 (1) pp.1-6
- 2019 [Immobilization of candida rugosa lipase on aminated polyvinyl benzyl chloride-grafted nylon-6 microfibers.](#) Bulletin of Chemical Reaction Engineering & Catalysis , 14 (2) pp.369-379
- 2019 [Calcium phosphate /poly \(ethylene glycol\) bone cement: cell culture performance.](#) International Journal of Recent Technology and Engineering , 7 (6) pp.82-86
- 2019 [Comparative metagenomics analysis of palm oil mill effluent \(POME\) using three different bioinformatics pipelines.](#) IIUM Engineering Journal , 20 (1) pp.1-11

- 2019** [Natural deep eutectic solvent-assisted pectin extraction from pomelo peel using sonoreactor: experimental optimization approach.](#) Processes , 7 (7) pp.1-19
- 2019** [Nanoemulsions: factory for food, pharmaceutical and cosmetics.](#) Processes , 7 (9) pp.1-34
- 2019** [Anticancer potential and chemical profile of agarwood hydrosol.](#) Malaysian Journal of Fundamental and Applied Sciences , 15 (5 (September-October)) pp.761-766
- 2018** [Innovative process to enrich carbon content of EFB-derived biochar as an alternative energy source in ironmaking.](#) Advances in Materials Science and Engineering , 2018 pp.1-7
- 2018** [Next generation sequencing-data analysis for cellulose- and Xylan-degrading enzymes from POME metagenome = Analisis data-penjujukan generasi seterusnya bagi enzim selulosa dan xilan mendegradasi daripada metagenom POME.](#) Sains Malaysiana , 42 (12) pp.2951-2960
- 2018** [Immobilisation of Candida rugosa lipase on aminated polyethylene/polypropylene microfibrinous sheet modified with oxirane group.](#) ASM Science Journal , 11 (3) pp.182-200
- 2018** [Role of substrate binding on the protein dynamics of an endoglucanase from fusarium oxysporum at different temperatures.](#) IIUM Engineering Journal , 19 (1) pp.307-314
- 2018** [Effect of charcoal derived from oil palm empty fruit bunch on the sinter characteristics of low grade iron ore.](#) Journal of Cleaner Production , 200 pp.954-959
- 2018** [A new isolate of thermophilic and organic solvent tolerant bacteria for lipase production using basal medium of palm kernel cake.](#) Malaysian Journal of Microbiology , 14 (2 (Special issue)) pp.80-87
- 2018** [Development of porous PCL-based microcarrier.](#) International Journal on Advanced Science, Engineering and Information Technology , 8 (4-2) pp.1648-1653
- 2018** [Transformation of carbon dioxide into methanol.](#) Journal of Advanced Research in Fluid Mechanics and Thermal Sciences , 52 (1) pp.55-62
- 2018** [Surface modification of microporous of polycaprolactone \(PCL\) microcarrier to improve microcarrier biocompatibility.](#) International Journal on Advanced Science, Engineering and Information Technology , 8 (4-2) pp.1642-1647
- 2018** [Effect of poly\(ethylene glycol\) on the injectability, setting behavior and mechanical properties of calcium phosphate bone cement.](#) IIUM Engineering Journal , 19 (2) pp.192-202
- 2017** [Different oxidation treatments on polystyrene \(PS\) microspheres by using an ultraviolet/ozone \(UVO3\) system.](#) Proceedings of the Pakistan Academy of Sciences: B. Life and Environmental Sciences , 54 (1B) pp.55-59
- 2017** [Thermostable and organic solvent tolerant lipase producing fungi in solid state bioconversion of palm kernel cake.](#) Asia Pacific Journal of Molecular Biology and Biotechnology , 25 (1) pp.98-105

- 2017** [Statistical optimization of gelatin immobilization on modified surface PCL microcarrier to improve PCL microcarrier compatibility.](#) Jurnal Teknologi , 79 (6) pp.167-175
- 2017** [Statistical optimization of gelatin immobilisation on modified surface of PCL microcarrier to improve its compatibility.](#) Jurnal Teknologi , 79 (6) pp.167-175
- 2017** [Different oxidation treatments on polystyrene \(PS\) microspheres by using an ultraviolet/ozone \(UVO3\) system.](#) Proceedings of Pakistan Academy of Sciences: B. Life and Environmental Sciences , 54 (B) (1) pp.59-64
- 2017** [Optimization of thermostable organic solvent-tolerant lipase production by thermotolerant Rhizopus sp. using solid-state fermentation of palm kernel cake.](#) 3 Biotech , 7 (5) pp.1-11
- 2017** [Calcium phosphate cement for bone filler applications.](#) Journal of Advanced Research in Materials Science , 39 (1) pp.20-31
- 2017** [Palm oil mill effluent metagenome for cellulose-degrading enzymes.](#) Journal of basic and applied Research , 3 (3) pp.101-106
- 2017** [Optimization of ultraviolet ozone treatment process for improvement of polycaprolactone \(PCL\) microcarrier performance.](#) Cytotechnology , 69 (4) pp.601-616
- 2017** [Statistical optimization of gelatin immobilisation on modified surface PCL microcarrier to improve PCL microcarrier compatibility.](#) Jurnal Teknologi , 79 (6) pp.167-175
- 2017** [Different oxidation treatments on polystyrene \(PS\) microspheres by using an ultraviolet/ozone \(UVO3\) system.](#) Proceedings of Pakistan Academy of Sciences , 54 (1B) pp.59-65
- 2016** [Effect of fungal pretreatment by Aspergillus niger assisted by ultrasonication on microfibrillated cellulose obtained from cocoa pod husk .](#) Journal of Advanced Research in Material Sciences , 21 (1) pp.1-13
- 2016** [Characterization of low-cost lipase by solid-state fermentation of palm kernel cake using candida cylindracea.](#) ARPN Journal of Engineering and Applied Sciences , 11 (1) pp.319-326
- 2016** [Electrokinetic sedimentation: a review.](#) International Journal of Environmental Technology and Management , 19 (5-6) pp.374-391
- 2016** [Fabrication of Fucoxanthin-Loaded Microsphere \(F-LM\) by two steps double-emulsion solvent evaporation methods and characterization of fucoxanthin before and after microencapsulation.](#) Journal of Oleo Science , 65 (8) pp.641-653
- 2016** [Aquilaria spp. \(agarwood\) as source of health beneficial compounds: A review of traditional use, phytochemistry and pharmacology.](#) Journal of Ethnopharmacology , 189 pp.331-360
- 2016** [Enhancement of oil palm empty fruit bunch char by impregnation of pyrolytic carbon from tar vapor decomposition.](#) Journal of Renewable and Sustainable Energy , 8 (1) pp.013110-1-013110-11
- 2016** [Utilization of low-grade iron ore in ammonia decomposition.](#) Procedia Chemistry , 19 pp.119-124

- 2016** [Quantum chemical structure activity studies of anticancer activity of seconucleoside nitrosourea analogs.](#) Chemical Informatics , 2 (1) pp.1-7
- 2016** [New technology for biochar production from oil palm empty fruit bunch.](#) ARPN Journal of Engineering and Applied Sciences , 11 (1) pp.368-371
- 2015** [Utilization of Malaysian low grade iron ore as medium for ammonia decomposition.](#) ARPN Journal of Engineering and Applied Sciences , 10 (22) pp.17286-17288
- 2015** [Development of carbon-infiltrated bio-char from oil palm empty fruit bunch.](#) ISIJ International , 55 (2) pp.436-440
- 2015** [Ultraviolet/ozone treated polystyrene microcarriers for animal cell culture.](#) Journal of Chemical Technology and Biotechnology
- 2014** [Molecular docking of cellobiose and cellotetraose into an endoglucanase from fusarium oxysporum.](#) Journal of Pure and Applied Microbiology , 8 (s.ed 1) pp.791-796
- 2014** [Effect of reduction roasting by using bio-char derived from empty fruit bunch on the magnetic properties of Malaysian iron ore.](#) International Journal of Mineral, Metallurgy and Minerals , 21 (4) pp.326-330
- 2014** [Production of cysteine: approaches, challenges and potential solution .](#) International Journal of Biotechnology for Wellness Industries , 3 (3) pp.95-101
- 2014** [Enhancement of magnetic properties of Malaysian iron ore by reduction roasting using oil palm empty fruit bunch.](#) ISIJ International , 54 (4) pp.994-996
- 2014** [Development and improvement of anti-gout property from aqueous-methanol extract of morinda elliptica using central composite design.](#) Advances in Environmental Biology , 8 (3) pp.734-743
- 2014** [Kinetics of lipase production from candida cylindracea by solid-state bioconversion of palm kernel cake.](#) Asian Journal of Microbiology, Biotechnology & Environmental Sciences , 16 (3) pp.523-528
- 2014** [Reduction of low grade iron ore pellet using palm kernel shell.](#) Renewable Energy , 63 pp.617-623
- 2014** [Anti-cancer potential of agarwood distillate.](#) Journal of Pure and Applied Microbiology , 8 (Sp. ed) pp.871-874
- 2014** [Cloning and expression of a novel phytase gene \(phyMS\) from Mycobacterium smegmatis.](#) Advances in Enzyme Research , 2 (1) pp.27-38
- 2014** [Optimization of spray drying process conditions for recombinant stem bromelain.](#) Advances in Environmental Biology , 8 (3) pp.696-703
- 2014** [Identification of microbes in inoculant for agarwood \(gaharu\) formation using molecular biological techniques.](#) Journal of Pure and Applied Microbiology , 8 (May (Special edition)) pp.769-776
- 2014** [Effects of pretreatment on properties of gelatin from perch \(Lates Niloticus\) skin.](#) International Journal of Food Properties , 17 (6) pp.1224-1236

- 2014** [Statistical screening and optimization of factors that influence lipase production from palm kernel cake using candida cylindracea in solid-state bioconversion.](#) Journal of Pure and Applied Microbiology , 8 (s.ed 1) pp.691-705
- 2014** [Optimization of media composition for \$\alpha\$ -amylase production in liquid state fermentation of bitter cassava by aspergillus niger.](#) Journal of Pure and Applied Microbiology , 8 (s.ed 1) pp.719-724
- 2014** [Optimization of cultivation conditions to enhance the expression of recombinant VDAC2 from gallus gallus.](#) Journal of Pure and Applied Microbiology , 8 (s.ed 1) pp.751-759
- 2014** [Ultrasonic-assisted extraction of thiols from garlic bulbs.](#) Advances in Environmental Biology , 8 (3) pp.725-728
- 2014** [Esterification for butyl butyrate formation using Candida cylindracea lipase produced from palm oil mill effluent supplemented medium.](#) Arabian Journal of Chemistry , 7 (6) pp.1159-1165
- 2014** [Process optimization of glucoamylase production by aspergillus niger using low cost bitter cassava \(manihot esculenta\).](#) Advances in Environmental Biology , 8 (17) pp.42-47
- 2014** [Biological synthesis of zinc nanoparticles by aspergillus niger.](#) Journal of Pure and Applied Microbiology , 8 (Spec.1) pp.865-869
- 2014** [Homology modeling of pyranose 2-oxidase from phanerochaete chrysosporium.](#) Journal of Pure and Applied Microbiology , 8 (s.ed 1) pp.859-863
- 2014** [Green synthesis of gold nanoparticles using candida cylindracea.](#) Journal of Pure and Applied Microbiology , 8 (SPEC. ISS. 1) pp.881-884
- 2013** [Understanding thermostability factors of Aspergillus niger PhyA phytase: a molecular dynamics study.](#) Protein Journal , 32 pp.309-316
- 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** [Carbon doped iron ore using palm kernel shell.](#) Advanced Materials Research , 701 pp.28-31
- 2013** [Magnetization of low grade iron ore using empty fruit bunch ash.](#) Advanced Materials Research , 701 pp.141-144
- 2013** [Reduction of iron ore/empty fruit bunch char briquette composite.](#) ISIJ International , 53 (10) pp.1749-1755
- 2013** [Kinetic studies on recombinant stem bromelain.](#) Advances in Enzyme Research , 1 (3) pp.52-60
- 2013** [Analysis of fucoxanthin content and purification of all-trans-fucoxanthin from turbinaria turbinata and sargassum plagyophyllum by SiO₂ open column chromatography and reversed phase-HPLC.](#) Journal of Liquid Chromatography & Related Technologies , 36 (10) pp.1340-1354

- 2013** [Influence of buffer electrolyte and ph on the electrochemical performance of glucose oxidase-laccase biofuel cell.](#) Journal of Biobased Materials and Bioenergy , 7 (2) pp.194-197
- 2013** [Cloning and expression of Voltage-dependent Anion Channel 2 \(VDAC2\) from electrically stimulated chicken.](#) Journal of Pure and Applied Microbiology , 7 (Spec.) pp.43-52
- 2012** [Site directed mutagenesis to improve E. Coli phytase activity for animal feed.](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.123-127
- 2012** [On-column refolding of recombinant fungal endoglucanase.](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.128-133
- 2012** [Characterization of purified cellulase from fermentation of sewage sludge.](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.74-78
- 2012** [Reduction of briquette composite made of low grade from ore and biomass ash.](#) SEAIISI Quarterly Journal , 41 (4) pp.12-16
- 2012** [Enhancing the efficiency of polymerase chain reaction using graphene nanoflakes.](#) Nanotechnology , 23 (45) pp.1-8
- 2012** [Effects of different methods of slaughtering on protein expression in chicken meat .](#) IIUM Engineering Journal , 13 (1) pp.27-33
- 2012** [Structural and dynamics behavior of native endoglucanase from fusarium oxysporum.](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.89-92
- 2012** [Molecular dynamics study of the effect of calcium ions on the thermostability of Bacillus Amyloliquefaciens Phytase.](#) Australian Journal of Basic and Applied Sciences , 6 (1) pp.109-116
- 2012** [Bromelain production: Current trends and perspective.](#) Archives Des Sciences , 65 (11) pp.369-399
- 2012** [Serum in mammalian cell culture: weighing the challenges of bioprocessing, ethics and animal welfare.](#) Advances in Natural and Applied Sciences , 6 (5) pp.596-600
- 2012** [Freely-suspended, single chamber glucose oxidase-laccase enzymatic fuel cell.](#) Advanced Materials Research , 512/15 pp.1499-1502
- 2012** [Focoxanthin extractions of brown seaweeds and analysis of their lipid fraction in methanol.](#) Food Science and Technology Research , 18 (2) pp.251-257
- 2012** [Recombinant bromelain production in Escherichia coli: process optimization in shake flask culture by response surface methodology.](#) AMB Express , 2 (12) pp.1-9
- 2012** [Rapid authentication of leather and leather products.](#) Advances in Natural and Applied Sciences , 6 (5) pp.651-659
- 2011** [Enzymatic hydrolysis of oil palm empty fruit bunch using immobilized cellulase enzyme.](#) African Journal of Biotechnology , 10 (81) pp.18811-18815
- 2011** [Recovery of recombinant bromelain from Escherichia coli BL21-AI.](#) African Journal of Biotechnology , 10 (81) pp. 18829-18832

- 2011** [Preliminary investigation of Myo-Inositol Phosphates produced by Asuia279phytase on Mcf-7 cancer cells..](#) IIUM Engineering Journal , 12 (4) pp.141-151
- 2011** [Evaluation of nutritional components by Plackett-Burman design for Penicillium citrinum lipase production using palm oil mill effluent.](#) African Journal of Biotechnology , 10 (81) pp.18704-18708
- 2011** [Development of pretreatment of empty fruit bunches for enhanced enzymatic saccharification.](#) African Journal of Biotechnology , 10 (81) pp.18728-18738
- 2011** [Effect of process parameters on lipase production by Candida cylindracea in stirred tank bioreactor using renewable palm oil mill effluent based medium.](#) Journal of Molecular Catalysis B: Enzymatic , 72 () pp.187-192
- 2011** [Do we need Halal certification, research & training? there are many advantages for halal certification and the use of halal logo for the consumers, the manufacturers and the regulators.](#) Halal Pages 2011/2012 pp.102-107
- 2011** [Optimization of lipase production by Candida cylindracea in palm oil mill effluent based medium using statistical experimental design.](#) Journal of Molecular Catalysis B: Enzymatic , 69 (1-2) pp.66-73
- 2011** [Suitability of using palm oil mill effluent as a medium for lipase production.](#) African Journal of Biotechnology , 10 (11) pp.2044-2052
- 2011** [Screening and optimization of media components for phytase production of ASUIA 279 in Pichia pastoris system using statistical design.](#) Australian Journal of Basic and Applied Sciences
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