YUSILAWATI BINTI AHMAD NOR

• KULLIYYAH OF ENGINEERING
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ACADEMIC QUALIFICATION

• Chemical and Biological Science (Nanotechnology)
• Biotechnology Engineering

TEACHING RESPONSIBILITIES

ARTIFICIAL TISSUE ENGINEERING	2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
BIO NANOTECHNOLOGY	2020/2021
BIOCHEMICAL ENGINEERING FUNDAMENTALS	2017/2018 2018/2019 2019/2020 2020/2021
ENGINEERING INDUSTRIAL TRAINING	2016/2017 2018/2019 2019/2020
ENVIRONMENTAL ENGINEERING AND MANAGEMENT	2019/2020
FINAL YEAR PROJECT II	2018/2019
Integrated Design Project	2018/2019
PROJECT II	2018/2019

RESEARCH PROJECTS

In Progress

2019 - Present	Development of nanocomposite hydrogel reinforced with nanocellulose of empty fruit bunch (EFB) incorporated with natural antimicrobial agent potential for wound healing dressing
2019 - Present	Investigation on the Effectiveness of Diamond Reinforcement in Strengthening Porous Aluminum
2016 - Present	Lysozyme Loaded Core Shell CuZnO Nanospheres as Superior Antimicrobial Agent
2006 - Present	Bio-Process and Molecular Engineering Research Unit (BPMERU)
Unknown - Present	Development of Sustainable Adsorbent for Water Treatment from agricultural residues

Unknown - Present	Preparation of multifunctional porous carbon fiber aerogel from sugarcane bagasse and waste engine oil by pyrolysis for water treatment

Completed

2016 - 2020	Lysozyme Loaded Core Shell CuZnO Nanospheres as Superior Antimicrobial Agent

PUBLICATIONS

Article

2020	Medicinal properties screening of Mallotus paniculatus extract. IIUM Medical Journal Malaysia , 19 (1) pp.5-12
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
2019	Treatment of waste engine oil using optimized acid/clay refining method. Biological and Natural Resources Engineering Journal , 2 (2) pp.37-48
2019	Physicochemical characteristics of bionanocomposites, polycaprolactone/starch/cocoa pod husk microfibrillated cellulose. Journal of Advanced Research in Fluid Mechanics and Thermal Sciences , 55 (2) pp.199-208
2018	Preliminary development of porous aluminum via powder metallurgy technique. Materialwissenschaft und Werkstofftechnik , 49 (4) pp.460-466
2018	Nanoengineered hollow mesoporous silica nanoparticles for the delivery of antimicrobial proteins into biofilms. Journal of Materials Chemistry B , 6 (13) pp.1899-1902
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

Conference or Workshop Item

2020	Fuzzy logic controller application for an active two-axis solar tracking system. **In: 1st International Conference on Renewable Energy Research and Challenge (ICoRER 2019)**
2019	Potency of fibraurea tinctora lour. extract as anti-bacterial agents towards pathogenic bacteria. **In: The 2nd International Conference on Natural Resources and Life Sciences (NRLS)**
2018	Rough hollow mesoporous silica nanoparticles as carrier for agarwood oil to treat cancer cells. **In: International Conference Biotechnology Engineering, ICBioE '18**
2018	The role of tin and magnesium in assisting liquid phase sintering of aluminum (Al). **In: International Conference on Advances in Manufacturing and Materials Engineering 2017, ICAMME 2017**
2018	Surface functionalisation of Microfibrillated Cellulose (MFC) of cocoa pod husk with Ɣ-Methacryloxypropyltrimethoxysilane (MPS). **In: The 3rd International Conference on Green Chemical Engineering and Technology (GCET 2017)**

2018	Electrospun Poly (Vinyl Alcohol) (PVA) fiber mats as carriers for extract from agarwood branch. **In: International Conference on Halal Innovation in Products and Services 2018 (i-CHIPS 2018)**
2018	Surface functionalisation of microfibrillated cellulose (MFC) of cocoa pod husk with Y'-Methacryloxypropyltrimethoxysilane (MPS). **In: 3rd International Conference on Green Chemical Engineering and Technology: Materials Science, GCET 2017**
2011	Serum in mammalian cell culture: weighing the challenges of bioprocessing, ethics and animal welfare. **In: 2nd International Conference on Professional Ethics and Education in Engineering 2011 (ICEPEE'11)**
2009	Optimization of serum preparation in Vero cell culture using a statistical approach. **In: 3rd International Conference on Chemical & Bioprocess Engineering**
2009	Fabrication system for surface modification of polystyrene beads by UV/Ozone treatment and its characterization. **In: Advances in Materials and Processing Technologies**

Book

2011	Recent development of microcarrier for cell culture engineering . IIUM Press, International Islamic University Malaysia . ISBN 9789674180096

Book Section