Credentials (IOS Researcher)

MOHD FAZLI B MOHAMMAT
BSc. (Hons.) Science (UM, Malaysia)
MPhil. Organic Synthesis (University of Liverpool, U.K)
PhD Organic Synthesis, (UiTM, Malaysia)

Current roles and responsibilities:

1. Researcher, Centre of Chemical Synthesis & Polymer Technology, Institute of Science
2. Associate Professor, Faculty of Applied Sciences

Honors Awards & Showcase:

1. Invention, Innovation & Design Exposition (IIDEX) 2017 – 1 Diamond

Selected Journals & Publications

- Facile Reduction of β-Enamino Oxopyrrolidine Carboxylates Mediated by Heterogeneous Palladium Catalyst Russian Journal of Organic
- New access to pyrano[2,3-c]pyrazole-3-carboxylates via domino four-component reaction and their antimicrobial activity,Indonesian Journal of Chemistry, 2020, 20(1), pp. 60-71
- Synthesis of novel 3,4-fused pyrazolidinone γ-lactam bicyclic moieties from 2,3-dioxo-4-carboxy-5-(substituted)pyrrolidinesOrganic Communications, 2019, 12(3), pp. 121-131
- Synthesis of novel 3,4-fused pyrazolidinone γ-lactam bicyclic moieties from 2,3-dioxo-4-carboxy-5-(substituted)pyrrolidinesOrganic Communications, 2019, 12(3), pp. 121-131
- Crystal structure of ethyl 3-(4-methoxyphenyl)-5-methylcarbamoyl-1H-pyrazole-4-carboxylate, C15H17N3O4 Zeitschrift fur Kristallographie - New Crystal Structures, 2019
- Practical synthesis and electronic study of non-spiro and spiropyrano[2,3-c]pyrazole-3-carboxylate derivatives via uncatalyzed domino one-pot, four-component reactions,Organic Communications, 2018, 11(3), pp. 149-

Research Grant

- Total Synthesis of Codinaeopsin as Unique Tryptophan-Tetramic Acid Type Compound Isolated From Endophytic Fungus Cr127A- **RM142,800.00**
- Enantioselective Synthesis of Novel And Biologically Active Alkaloids Of 3-Hydroxy-4-Quinone-5-Hydroxymethyl-Pyrrolidinones From Algicolous Zeae - **RM66,200.00**
- Hit to Lead: Synthesis and Molecular Modeling of Chalcones and Flavones as Lead Drugs for Inflammatory Disorders **– RM 1.074 mil**
- Synthesis and Chemical Exploration Towards Novel Fused [5,5] Pyrazolidinone and [5,7] Oxazepanone, Lactam Ring System – **RM 25 000.00**
- Enantioselective Synthesis of Novel and Biologically Active Alkaloids of 3-Hydroxy-4-Quinone-5-Hydroxymethyl-Pyrrolidinones from Algicolous Zeae – **RM 62 000.00**
- Characterization of Glass Fiber Reinforced Unsaturated Polyester Filled P84 Polymide/Multi-Wall Carbon Nanotube (MWCNT) Composites – **RM 53 000.00**
- Electrical Studies on Polymeric Nanofiber Network Composite Membrane Fuel Cell – A New Class of Proton Exchange Membrane – **RM**

Consultancy

- Development of High Temperature Green Stimultion Fluid - Petronas Research Group Sdn Bhd
- Advanced Professional Chemical Training II for Sime Darby Staff, 2015

Articles & Books

- "In Vitro Evaluations and In Vivo Toxicity and Efficacy Studies of MFM501 against MRSA", BioMed Research International 2017, Article ID 8032865
- In Vitro Inhibitory and Cytotoxic Activity of MFM 501, a Novel Codonopsinine Derivative, against Methicillin-Resistant Staphylococcus aureus Clinical Isolates, BioMed Research International 2015, Article ID 823829
- ***BOOK*** – "Basic Chemistry for Engineer", Hadariah Bahron, Sim Lai Har, Badariah Abu Bakar & Mohd Fazli Mohammat, McGraw Hill, ISBN 983-3219-38-1, 2006
- ***BOOK*** – "Basic Chemistry for Engineer : Laboratory Manual", Nesamalar Kantasamy, Chin Yit Meng & Mohd Fazli Mohammat, McGraw Hill, ISBN 983-3219-47-0, 2006