

Credentials (IOS Researcher)



MOHD SUFRI MASTULI

Diploma Science (UiTM, Malaysia)
BSc. (Hons.) Applied Chemistry (UiTM, Malaysia)
MSc. Chemistry (University of Wollongong, Australia)
PhD in Catalysis (UPM, Malaysia)

Current roles and responsibilities:

1. Coordinator of Student Affairs, Faculty of Applied Sciences, UiTM Shah Alam, Malaysia.
2. Senior Lecturer, Faculty of Applied Sciences, UiTM Shah Alam, Malaysia.
3. Fellow Researcher at Centre for Functional Materials & Nanotechnology, Institute of Science, UiTM Shah Alam, Malaysia.

Selected Journals & Publications

- "Growth mechanisms of MgO nanocrystals *via* a sol-gel synthesis using different complexing agents", *Nanoscale research letters* 9 (2014) 134
- Structural and catalytic studies of $Mg_{1-x}Ni_xO$ nanomaterials for gasification of biomass in supercritical water for H_2 -rich syngas production", *International Journal of Hydrogen Energy* (2020)
- Sulfonated SnO_2 nanocatalysts *via* a self-propagating combustion method for esterification of palm fatty acid distillate", *RSC Advances* 10 (2020) 29187 – 29201
- Free- H_2 deoxygenation of *Jatropha curcas* oil into cleaner diesel-grade biofuel over coconut residue-derived activated carbon catalyst", *Journal of Cleaner Production* 249 (2020) 1193812
- Hemitate microcube decorated TiO_2 nanorods as heterojunction photocatalysts with in-situ carbon doping derived from polysaccharides bio-templates hydrothermal carbonization", *Journal of Alloys and Compounds* 820 (2020) 1531432

Research Grants

- A novel adsorbent of nanostructured MgO for heavy metals removal from textile wastewater – **€ 25,000**
- Preparation of curved structure of MgO via sol-gel method assisted cetyltrimethylammonium bromide: Thermal, phase and morphological studies – **RM54,500**
- Catalytic properties of CaO nanocatalysts in supercritical water gasification (SCWG) of oil palm empty fruit bunches (OPEFB) – **RM69,000**
- Highly active SnO_2 nanoparticles as superacid catalysts in esterification of low-cost palm fatty acid distillate (PFAD) feedstock into biodiesel – **RM91,700**
- Charge-discharge properties $LiCo_{0.3}Ni_{(0.7-x)}Ti_xO_2$ cathode materials and their chemical configuration – **RM100,912**
- Development of effective NiO-TMO (TMO = Ag, Fe, La, Cd, Mn, Mo) supported on activated carbon for pyrolytic deoxygenation of triglycerides into renewable biofuel – **RM174,200**
- Structural parameters and atomic positions of nanostructured and substituted Al_2O_3 – **RM50,000**
- Synthesis of ordered nanoparticles mesoporous alumina network assisted by biopolymer – **RM65,000**
- Transesterification of palm olein oil to fatty acid methyl ester using CaO-sugar cane bagasse ash as basic catalyst – **RM51,200**

Honors Awards & Showcase

- UiTM Excellent Service Award 2012.
- Invention, Innovation and Design Expo IDEX 2013 – 2 Gold & 1 Silver
- Innovation Design & Competition (IID Johor 2013) – Bronze
- Invention, Innovation and Design Expo IDEX 2014 – Bronze
- Japan-Asia Youth Exchange Program in Science under SAKURA Exchange Program in Science sponsored by Japan Association for Chemical Innovation (JACI), 4 – 12 July 2015, Tokyo, Japan.
- Invention, Innovation and Design Expo IDEX 2016 – Gold
- Invention, Innovation and Design Expo IDEX 2017 – 1 Gold & 1 Bronze
- National e-Content Development Competition 2019 – Silver
- Invention, Innovation and Design Expo IDEX 2019 – Gold
- UiTM Research Fiesta (URF) 2019 – Gold
- National e-Content Development Competition 2020 – Silver