

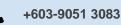
National Defence University of Malaysia Duty, Honour, Integrity



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Chemistry & Biology Department Centre for Foundation Studies National Defense University of Malaysia

CURRENT RESEARCH PROJECT

- Role of Intermolecular Interaction in Conductive Polymer Wrapped MWCNT as Organophosphate Sensing Material Structure ISIS-NEWTON/2019/SG/01
- Design of Hybrid Carbon Nanotube/Polythiophene based Chemiresistive Sensor for VX-type Nerve Agent Stimulant UPNM/2018/CHEMDEF/ST/3
- Size Controlled Palladium Nanoparticles through Optimised Green Colloidal Synthesis SF0067- UPNM/2019/SF/SG/4

RESEARCH PROJECTS

- Functionalized Carbon Nanotubes On Adsorption Of Heavy Metals Species From Aqueous Solution FRGS/2/2013/ST05/UPNM/03/1
- Effect of Surface Functional Groups of Carbon in Water-Based Nanofluids for Heat Transfer Media RAGS/2012/UPNM/SG01/2
- The Effect of Metal Supported Catalysts on the Conversion, Selectivity and Yields of Biofuel from Microalgae RACE/F3/ST5/UPNM/2

KEY PUBLICATIONS

- Extracting structural information of Au colloids at ultradilute concentrations: identification of growth during nanoparticle immobilization, Nanoscale Advances., 2019,1, 2546-2552
- Efficient electronic transfer on palladium / TiO₂ for hydrogen production from photocatalytic reforming of methanol. *Physical Chemistry Chemical Physic* (PCCP) 2019, 21, 16154
- Optimization of Biodiesel Production from Chlorella vulgaris using CuO, NiO and MgO on Zeolite 4A Catalysts, Journal of Physics: Conference Series 1349 012065

TEACHING & RESEARCH INTERESTS

- Nanocarbon
- Catalysis & Nanoparticles
- Biofuel
 Sensor
 Water Treatment

EDUCATION & TRAINING

Ph.D (Advanced Material) – University of Malaya, (2012) PhD Thesis: Design of Bio-Supported Nanostructure: Synthesis Parameter

M.Phil (Advanced Material)-University of Malaya, (2004)

M.Phil Thesis: UV/Vis/NIR Diffuse Reflectance Studies of Structurally Complex Molydenum Oxide as Model Catalysts

B.Sc (Hon)–Petroleum Chemistry – University Putra Malaysia (2001)

ACHIEVEMENTS & AWARDS

- Gold Medal Award (2019) Defence, Security & Sustainability Exhibition / UPNM
- Young Investigator Award (2015) Regional Symposium of Malaysia Analytical Science (SKAM28) / Akademi Sains Malaysia / YoungScientist Network Malaysia
- Excellent performance award certificate (2015) UPNM

LIST OF POSTGRADUATE STUDENTS

- Mardhiahtul Iftiah Ariffin (M.Sc) Completed
- Nor Shafiqah Mohamad Saidi (M.Sc) Ongoing

MEMBERSHIPS

 Graduate Technologies (Malaysia Board of Technologists)