



NORLI BINTI ABDULLAH

Senior Lecturer

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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 ultra-dilute 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 Physics (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 Molybdenum 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)