



ROSNAH ZAKARIA

Bachelor Education (Hons) Physics, (UKM Malaysia)

MSc. Science Education, (UKM Malaysia) PhD Advanced Materials, (UiTM, Malaysia)

Current roles and responsibilities:

- Leader, Elctroactive Materials (CoE) UiTM in tier 5
- Senior Lecturer, Faculty of Applied Sciences, Basics Physics and Classical Mechanics
- Member of Instute of Science, UiTM
- Panel of academic (physics) for revised curriculum for Ministry of Higher education at matriculation level.

Honors Awards & Showcase:

- Bioinnovation Award / Biomalaysia) 1
 Silver
- 2. Invention, Innovation & Design Exposition (IIDEX) 3 Gold
- 3. Scientific Research Invention & Innovation Competition (sriic2017) 1 Bronze

Credentials (IOS Researcher)

Selected Journals & Publications

- "Comparison of conductivity performance of dragon fruit dye extracted using water and ethanol for dye-sensitized solar cells", International Journal of Engineering and Technology(UAE) (2018) 126-128
- "Studies of the absorbance peak on the N719 dye influence by combination between Cadmium Selenide (CdSe)QDs and Zinc Sulfide(ZnS)QDs", (2018) 01040
- "Rheology behaviour of modified siliconedammar as a natural resin coating, PHYSICS AND MATERIALS SYMPOSIUM: International Conference on Applied, 2016
- "X-Ray Diffraction and Infrared Studies on Plasticized Cellulose Acetate Complexed with Ammonium Iodide for Solid Polymer Electrolyte", Materials Science Forum 846, 523-527, 2016
- "The performance of Modified Silicone-Dammar in Nanoindentation Test, International Journal of Advanced Science and Technology, Vol. 42, May, 2012
- "Adhesion and Hardness Evaluation of Modified Silicone-Dammar as Natural Coatings Materials", American Journal of Applied Sciences 9(6): 890-893, 2012
- "The influence of Dammar Resin as a Natural Resin On Corrosion Protection In Silicone Coatings", American Institute Of Physics (AIP. Con. Pro) Vol 1250, 2010

Research Grant

- Interaction Mechanism of ZnS/CdSe Semiconducting Quantum Dot in Recombination Process of DSSC – RM108,200.00
- Electron Transport Mechanism of Graphene-Zinc Oxide Semiconductor in Electron Injection of Dye-sensitized solar cells - RM108,200.00
- Upconversion Mechanism of Rare-Earth Doped Gd2O3:M (M=Er3+, Yb3+) Dye-Sensitized Solar Cells - RM79,000.00
- Superionic conductor in Poly-Leucine-1,3-Diamino Propane (PLL) doped with Nal–Na3PO4 salt - RM100,000.00
- (Development and Characterisation of Nano Paint Prepared From Bio Natural Compound) - RM60,000.00
- Studies of the natural Organic/Inorganic pigments on Silicone-Based Binder for High Temperature Application -RM227,800.00
- A New Conducting Ion Using Poly Amino Acid **RM180,215.00**

Consultancy

Articles & Books