



AB MALIK MARWAN BIN ALI

BSc. (Hons.) Physics (Malaya, Malaysia) MSc. PM. Phill Advanced Material, (Malaya Malaysia) ٠

PhD Advanced Materials , (UiTM, Malaysia)

Current roles and responsibilities:

- 1. Head, Centre of Advanced Material Research , Institute of Science
- 2. Director, Community of Research (CoRe), IRMI, UiTM
- 3. Senior Lecturer, Faculty of Applied Sciences
- 4. Coordinator Program BSc. Physics, Faculty of Applied Sciences, UiTM

Honors Awards & Showcase:

- 1. International Invention, Innovation & Technology Exhibition (ITEX) 1 Gold
- Invention, Innovation & Design Exposition

 1 Grand Award, 1 Diamond, 2 Gold, 2 Silver, 2 Bronze
- 3. British Inventor Society (BIS) 1 Gold
- Malaysia Technology Expo (MTE) 1 Silver & 1 Bronze

Credentials (IOS Researcher)

Selected Journals & Publications	Research Grant	Consultancy
"Understanding the electronic transition of normal spinel structure of Co3O4 using GGA+U calculations", International Journal of Engineering and Technology (UAE), (2018) 121-125 "Electrochemical properties of polymer electrolytes treated with 6PPD on 30% poly(Methyl methacrylate) grafted	 Electrical properties of plasticized solid polymer electrolytes dispersed with zinc sulphide for dye sensitized polymer solar cell – RM112,000.00 Development of Prototyped Rechargeable lithium Air Batteries Employing Bio-Derived Cellulose and 	• Magna Value Sdn. Bhd.
natural rubber", Malaysian Journal of Analytical Sciences (2018) 491-498 "Filler and polymer interactions in polymethyl methacrylate/50%	 al rubber", Malaysian Journal of tical Sciences (2018) 491-498 and polymer interactions in nethyl methacrylate/50% dized natural rubber/silicon de nanocomposites", Malaysian al of Analytical Sciences (2018) ct of ionic liquid incarceration of g free radical polymerization of A on its structural and electrical Rubber Derivatives Based Gelled and Solid Polymer Electrolytes - RM243,000.00 Upconversion mechanism of rare-earth doped gd2o3:m (m=er3+, yb3+) dye-sensitized solar cells - RM79,000.00 Structural and Electrical Studies on Semiconductor Dispersed Composite Cellulose based Polymer Electrolytes - 	Articles & Books
epoxidized natural rubber/silicon dioxide nanocomposites", Malaysian Journal of Analytical Sciences (2018) "Effect of ionic liquid incarceration during free radical polymerization of PMMA on its structural and electrical properties", Ionics, (2017) 295-301		CHAPTER IN BOOK - Compatibility and thermal properties of poly(ethylene oxide) and natural rubber-grafted- poly(methylmethacrylate) blends in Applied Chemistry and Chemical
"Dielectric behaviour of UV-crosslinked sulfonated poly (ether ether ketone) with methyl cellulose (SPEEK-MC) as proton exchange membrane",	 Interaction mechanism of zns/cdse semiconducting quantum dot in recombination process of dssc – RM108,200.00 	Engineering, Volume 4: Experimental Techniques and Methodical Developments, Apple Academic Press, 2017
International Journal of Hydrogen Energy, (2017) 9284-9292 Optical transition, excitation, and emission properties of poly(N- vinlycarbazole) blended with poly(vinylidene fluoride-co- hexafluoropropene) and polyvinylpyrrolidone", Acta Physica Polonica A 127, (2015) 1430-1433	 Electron transport mechanism of graphene-zinc oxide semiconductor in electron injection of dye-sensitized solar cells – RM108,200.00 Lattice expansion of ba(ce,zr)o3 ceramics electrolyte at intermediate tempertaures-d proton conductor - RM100,000.00 	CHAPTER IN BOOK - Thermal properties and intermolecular interaction of binary polymer blends of poly(ethylene oxide) and poly(n-butyl methacrylate) in Applied Chemistry and Chemical Engineering, Volume 4: Experimental Techniques and Methodical Developments, Apple Academic Press, 2017