



ZURAIDA KHUSAIMI

BSc. (Hons.) (University of Aberdeen, Scotland, U.K.)

MSc. Analytical Chemistry and Instrumental Analysis (Universiti Malaya, Malaysia) PhD (UiTM, Malaysia)

Current roles and responsibilities:

- Researcher, Centre for Functional Materials & Nanotechnology, Institute of Science
- Senior Lecturer, Faculty of Applied Sciences

Honors Awards & Showcase:

- 1. IENA 2009 (Germany), Eureka (Belgium) 1 Silver & 1 Bronze
- 2. MTE 2011, PECIPTA 2009 2 Silver
- 3. IIDEX & IID & SRIIC (2009 -2018) 3 Gold, 3 Silver, 2 Bronze

Credentials (IOS Researcher)

Selected Journals & Publications

- "Controlled Growth of Zinc Oxide Nanorods by Aqueous-solution Method" , Synthesis and Reactivity in Inorganic, Metal-organic and Nano-Metal Chemistry, Vol. 40 (3), 190 – 194, 2010.
- "ZnO Nanorod Arrays Synthesised Using Ultrasonic-Assisted Sol-Gel and Immersion Methods for Ultraviolet Photoconductive Sensor Applications", Chapter 5, Nanorods, ISBN 978-953-51-020209-0, InTech, 2012.
- "Hierarchically assembled tin-doped zinc oxide nanorods using low temperature immersion route for low temperature ethanol sensing, Vol 28(21), 16292 - 16305, 2017.
- "Surfactant-free seed-mediated large-scale synthesis of mesoporous TiO₂ nanowires", Ceramics International, Vol. 41, 4260 4266, 2015.
- "ZnO Nanoparticles on Si, Si/Au, and Si/Au/ZnO Substrates by Mist-Atomisation", Journal of Nanomaterials, Vol. 2012, Article ID 189279, 2012.
- "Novel synthesis of aligned Zinc oxide nanorods on a glass substrate by sonicated sol–gel immersion", Material Letters, Vol. 64, 1211 – 1214, 2010.

Selected Research Grant

- Improvement on Photoelectrochemical Properties of High Aspect Ratio Titania Nanotubes – RM 119, 500.00
- The Synthesis of Graphene From Waste Engine Oil as a Renewable Natural Carbon Source to be Incorporated into Graphene/ZnO Nanocomposite for Sensor Application - RM 25 000.00
- Growth of ZnO Nanostructures on TiO₂
 Seed Layer for Potential Application of UV Sensor – RM 20 000.00
- The Study of Structural and Electrical Properties of ZnO Nanostructures on Porous Silicon as a Gas Sensor – RM 20 000.00
- Temperature Dependent
 Photoluminescence of ZnO Naorods
 on Durable Polymer-based Template
 Prepared by Solution-Immersion
 Method RM 20 000.00
- Preparation of Hybrid CuO/TiO2
 Photocatalyst Responsive Towards
 Visible Light RM 20 000.00
- Temperature Dependent
 Photoluminescence of ZnO Naorods
 on Durable Polymer-based Template
 Prepared by Solution-Immersion
 Method RM 20 000.00

Research Patent

- " A Method for Synthesizing Nanostructures", Zuraida Khusaimi, Suhaidah Amizam, Mohamad Hafiz Mamat, Saifollah Abdullah and Mohamad Rusop, (2010) (Patent No. PI 2010003099)
- "A Method for Preparing Aligned Zinc Oxide (ZnO) Nanorods on Substrate", Mohamad Hafiz Mamat, Zuraida Khusaimi, Musa Mohamed Zahidi and Mohamad Rusop, (2010) (Patent No. UI 2010004836)

 Synthesis and Characterisation of Nanostructured Zinc Oxide by Sol-gel Mister Atomisation – RM 15 000.00