

**YUSRAN SULAIMAN****Ph.D. (Durham University)**

ASSOCIATE PROFESSOR DR.

Department of Chemistry

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**EXPERTISE**

Electroanalytical Chemistry, Materials Chemistry

Associate Prof. Dr. Yusran Sulaiman is a lecturer at the Department of Chemistry, Faculty of Science, Universiti Putra Malaysia (UPM). He is also an associate researcher at Functional Device Lab in Institute of Advanced Technology (ITMA), UPM. His research interest are preparation of materials, mainly conducting polymer based-materials and nanomaterials (graphene, metal oxide, carbon nanotubes etc.) for the applications as sensing platforms (chemical sensors, biosensors, immunosensors), supercapacitors and photovoltaic devices (solar cell). Various techniques have been used to prepare and characterize the materials, including electrochemical techniques (cyclic voltammetry, chronoamperometry, chronopotentiometry, electrochemical impedance spectroscopy etc.), electrospinning and spectroscopic techniques. His research grants mainly are from UPM, Ministry of Education and Ministry of Science, Technology and Innovation.

**CURRENT RESEARCH INTERESTS :****• Supercapacitors**

Supercapacitors are electrochemical energy storage devices that combine the high energy storage capability of conventional batteries with high power delivery capability of conventional capacitors. Preparation and modification of nanomaterials as electrode materials are the major factor to produce high performance supercapacitor.

**• Chemical sensors/Biosensors**

Preparation of nanomaterials for detection of analytes electrochemically or optically for various applications.

**• Solar Cells**

Developing nanomaterials that can be used as solar cells devices for converting energy from light into electricity by the photovoltaic effect.

**LINK TO POSTGRADUATE FIELD OF STUDY:**

Analytical Chemistry, Materials Science, Energy, Nanotechnology, Sensor Technology

**ADDITIONAL INFORMATION:****Researchgate**

([https://www.researchgate.net/profile/Yusran\\_Sulaiman](https://www.researchgate.net/profile/Yusran_Sulaiman))

**Google scholar**

(<https://scholar.google.com/citations?user=3hNQpowAAAAJ&hl=en>)