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**EXPERTISE**

Analytical Chemistry, Surface Chemistry, Chemical and Biosensors Technology

Dr. Shahrul Ainliah Alang Ahmad is a senior lecturer in the Department of Chemistry, Faculty of Science. She is also the research associate member for Institute of Advanced Technology (ITMA), Universiti Putra Malaysia. Her main research area focuses on self-assembly of functional organic molecules on silicon and gold, surface chemistry, and optical and electrochemical sensors. Major sponsors of her research include the Fundamental Research Grant Scheme (FRGS), Research University Grant Scheme (RUGS) and Geran Putra .

CURRENT RESEARCH INTEREST :**• Self-assembled monolayers (SAMs)**

Self-assembly is a term used to describe the spontaneous formation of ordered monolayers or multilayers of amphiphilic materials. The monolayers are commonly used as model templates in the study of surface modification and nanoscale fabrication. The high density and stability of SAMs have potential applications in sensing, corrosion prevention, biocompatibility and biomimetic characteristics.

• Surface Chemistry

With the increasing interest in organic synthesis on solid supports, industrial development of combinatorial chemistry methodologies and the importance of surface reaction in biochemistry, the prospect of using SAMs in surface chemistry manipulation, patterning and derivatization are interesting to study.

• Optical and electrochemical sensors

In the field of chemical sensors, the selectivity and sensitivity of calixarene and functional organic thin films on solid surfaces have been developed for electrochemical and optical sensors that can be applied to monitor heavy metal ions in water contamination and tropical disease such dengue.

LINK TO POSTGRADUATE FIELD OF STUDY:

Analytical Chemistry, Nanotechnology, Sensor Technology

ADDITIONAL INFORMATION:

<http://www.upmbiosensor.com/v2/index.php/researchers/shahrul-ainliah-alang-ahmad>
<https://scholar.google.com/citations?user=1qZkglSAAAAJ&hl=en>