

TAN YEN PING**Ph.D. (University of Cambridge)**

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**EXPERTISE**

Materials Chemistry, Catalysis, Environmental Chemistry

Dr. Tan Yen Ping is a senior lecturer in the Department of Chemistry, Faculty of Science. She is also one of the principal researchers at the Centre of Excellence for Catalysis Science and Technology (PutraCAT) Universiti Putra Malaysia. Her major research areas include solid electrolytes and oxide ion conductors for applications in fuel cells and sensors, synthesis and applications of solid oxides and biomass based solid catalysts in heterogeneous catalytic reactions, as well as applications of low-cost materials in wastewater treatment. Major sponsors of the research work include the Science Fund (Ministry of Science and Innovation of Malaysia (MOSTI)), Research University Grant Scheme (RUGS) and Fundamental Research Grant Scheme (FRGS). Dr. Tan is a Member of the Royal Society of Chemistry UK since 2017.

CURRENT RESEARCH INTERESTS:**Solid Electrolytes and Oxide Ion Conductors**

Research work focuses on the synthesis and characterization of new solid electrolytes and oxide ion conductors. Physical and chemical properties of these new materials are studied to evaluate the potentials of these materials for the applications in solid oxide fuel cells and sensors.

Heterogeneous Catalysts

Research work includes the preparation and characterization of various solid oxides and supported metal catalysts, as well as biomass based solid catalysts for the applications in catalytic reactions such as biodiesel production and petrochemical reactions. Physical and chemical properties of the catalysts are investigated. Design and modifications are made on the catalysts to enhance the catalytic activities.

Low-cost Materials for Wastewater Treatment

Various low-cost materials such as agricultural waste materials are used and chemically modified for the removal of dyes and heavy metals. The potentials of these low-cost materials are evaluated to provide cheaper and more effective alternatives for wastewater treatment.

LINK TO POSTGRADUATE FIELD OF STUDY:

Physical Chemistry, Analytical Chemistry, Catalysis

ADDITIONAL INFORMATION: