

TAN KAR BAN**Ph.D. (Univerisiti Putra Malaysia)**

ASSOCIATE PROFESSOR DR.

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**EXPERTISE**

Material Chemistry, Electroceramics

Dr. Kar Ban Tan is currently an associate professor at the Department of Chemistry, Faculty of Science, Universiti Putra Malaysia. He graduated with a first class degree in B.Sc. (Hons)-Industrial Chemistry and then obtained his Ph.D- Materials Chemistry, UPM. Dr. Tan also contributes his expertise as a referee for many Journals of international repute and other scholarly activities through his engagements in conferences/workshops and Science outreach programmes. He is also the chair of Science Outreach flagship programme (YSN-ASM), associate member (AMIC, IKM), members of American Chemical Society (ACS) and Malaysian Solid State Science and Technology (MASS). To date, he guides more than 15 postgraduates under his main or co-supervision.

CURRENT RESEARCH INTERESTS:

Dr. Tan's research interests encompass on the synthesis and characterisation of functional electroceramics using a variety of techniques including X-ray powder diffraction, electron microscopy, laser Raman spectroscopy, thermal analysis, ac impedance spectroscopy and physical property measurements. The employment of these state-of-art techniques is imperative as to perform a systematic study on these materials, particularly due to their structural and compositional complexity and understanding of the correlation between their physical, structural and electrical properties. Dr. Tan has spearheaded and collaborated research projects with various parties through financial supports from Research University Grant Scheme (RUGS), Fundamental Research Grant Scheme (FRGS) and Science fund, MOSTI. He has published more than 90 papers in conference proceedings, workshops and international peer reviewed and citation-indexed journals.

Specific research areas:

Electroceramics for electrical applications including dielectric, semiconductor, superconductor and ionic conductor, supercapacitor etc.

LINK TO POSTGRADUATE FIELD OF STUDY:

Material Science

ADDITIONAL INFORMATION:

- Material Science (http://www.sgs.upm.edu.my/sp/page/3125/materialscience_bi)
- ResearchGate (https://www.researchgate.net/profile/Kar_Ban_Tan)
- Google Scholar (<https://scholar.google.com/citations?user=7FkrBv0AAAAJ&hl=en>)
- Young Scientists Network– Academy of Sciences Malaysia (<http://ysn-asm.org.my/index.php/about-us/ysnmembers>)