

**RABA'AH SYAHIDAH AZIS**  
**Ph.D. (University of Warwick)**

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**EXPERTISE**

MATERIALS PHYSICS/MAGNETIC MATERIALS/  
SOLID-STATE NMR

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Dr. Raba'ah Syahidah Azis is a Senior Lecturer at the Department of Physics, Faculty of Science, Universiti Putra Malaysia, UPM Serdang. Her research interest focuses on chemistry, physics and materials science inorganic, ceramic and ferromagnetic materials. Her research focuses on sol-gel synthesis, chemical method, and characterization of ceramic, magnetic materials and electrical properties of materials. She is a member of Institute of Physics (IOP) and International Sol-gel Society (ISGS). The recent sponsors of her research include Research University Grant Scheme (RUGS), Fundamental Research Grant Scheme (FRGS) and Prototype Development Research Grant Scheme (PRGS).

**CURRENT RESEARCH INTEREST :****Ceramic, Magnetic materials (Ferromagnetic Materials) – Ba, SrHexaferrite, Recycling MillscaleWaste**

- Product
- Processing

Sol-gel synthesis and chemical methods and conventional solid-state sintering Mechanical alloying for preparing ceramic and magnetic materials - ferromagnetic materials (Ba, SrHexaferrite)

- **Structural studies of ceramic**

Structural study of crystalline materials using the solid-state magic angle spinning nuclear magnetic resonance (SS MAS NMR). Experience with high abundance nuclei,  $^{27}\text{Al}$  for SS-MAS experiment. Also with low gamma nuclei,  $^{89}\text{Y}$  using spin-echo MAS NMR experiment. Investigate the next-neighbor atom of specific nuclei to give structural information. Familiar with TOPSPIN, SPINSIGHT and QuadFit.

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**LINK TO POSTGRADUATE FIELD OF STUDY:****ADDITIONAL INFORMATION:**