

MUHAMMAD KASHFI SHABDIN
Ph.D. (Universiti Teknologi Malaysia)

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EXPERTISE

Smart Material, Magnetorheological Materials, Sensors



Dr. Muhammad Kashfi Shabdin is currently a Senior Lecturer at the Physics Department, UPM. He obtained his PhD in Smart Material from the Malaysia – Japan International Institute of Technology (MJIT), UTM in 2020. His work mainly focuses on the characterization and application of Magnetorheological (MR) materials for sensing technologies. Dr. Muhammad Kashfi Shabdin joined the Advanced Vehicle System (AVS) Ikoza, MJIT, UTM in April 2017 - December 2019 as a Postgraduate Researcher and Research Assisstant. He works to evaluate the effect of different types of fillers in MR elastomers towards MR effect and electrical conductivity in the application of prosthetic devices. He has published over 15 research articles in journals. He is a professional member (technologist, Ts) of the Malaysia Board of Technologies (MBOT).

Current research interests:

• **Development of Smart Magnetorheological Elastomer**

Focus on fundamental studies of both the fabrication and characterization of Graphite and Cobalt based Magnetorheological Elastomer by conventional mixing method, with emphasis on the improvement of MR effect and electrical conductivity through optimizing the different filler compositions and through the utilization of a designated test rig.

• **Optical studies on glass ceramics composite materials**

He also works on IoT optimization on the design performance of a tunable low range insole sensor in collaboration with Engineering Materials and Structures, Malaysia – Japan International Institute of Technology (MJIT), UTM.

LINK TO POSTGRADUATE FIELD OF STUDY

ADDITIONAL INFORMATION: