

## MOHD MUSTAFA AWANG

### KECHIK

### Ph.D. (University of Birmingham)

Senior Lecturer (Dr.)  
Department of Physics  
Universiti Putra Malaysia  
Tel: 03 89466671  
Fax: 03 89454454  
mmak@upm.edu.my



#### EXPERTISE

HIGH TEMPERATURE SUPERCONDUCTOR

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Dr. M.M. Awang Kechik is currently a senior lecturer at the Physics Department, UPM. He obtained his PhD in Superconductor from the University of Birmingham in 2011. His work mainly focuses on flux pinning in HTS superconducting films. Dr. M.M. Awang Kechik joined the School of Electrical, Electronic and System Engineering, University of Birmingham in January 2014-January 2016 as a Postdoctoral Research Fellow. He works to evaluate the impact of random uncertainties in measurements of the relative permittivity of thin films on the design of microwave devices. He has published over 30 research articles in journals. He is a member of Institute of Physics, London, European Society for Applied Superconductivity (ESAS), The Birmingham Metallurgical Association and Malaysian Solid State Science and Technology (MASS).

#### Current research interests:

- **High Temperature Superconductor**

Focus on fundamental studies of both the fabrication and characterization of YBCO 123 thin films grown on Strontium Titanate (STO) substrate by the Pulsed Laser Deposition and RF Sputtering methods, with emphasis on the improvement of critical current density through optimizing the processing conditions and through the addition of nano pinning inclusions.

- **Microwave Properties of Electronic Materials**

He also works on influence of uncertainty in dielectric properties on the design performance of a tunable composite right/left handed leaky wave antenna in collaboration with Emerging Device Technology, School of Electrical, Electronic and System Engineering, University of Birmingham.

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#### LINK TO POSTGRADUATE FIELD OF STUDY:

#### ADDITIONAL INFORMATION: