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EXPERTISE

Analytical Chemistry, FTIR and Raman Spectroscopy, Quantum Chemistry and Novel Psychoactive Substances

Dr. Mohd Rashidi is a Senior Lecturer at Department of Chemistry. In 2014, he had huge opportunity working with forensic samples donated by the UK's police. This led to start of his PhD in Raman spectroscopy with Professor Ian Scowen. He was given training in using the portable and benchtop IR and Raman spectrometers (Thermo Scientific, Horiba, Bruker) at the University of Lincoln. Rashidi and his team in Lincoln deconvoluted complex Raman spectra of synthetic cannabinoids and validated them with the calculated spectra.

He received several local scholarships during his study period since 2004. He has published 5 papers and 5 posters. He has supervised and co-supervised more than 10 local and international undergraduate students. In 2019, he supervised students from UTHM and UiTM for their internship. He also actively involved in many consultations works with the industry (local and international company) and government sector. He is an associate member of Royal Society of Chemistry.

CURRENT RESEARCH INTERESTS:

His research interests combine organic and spectroscopy methods to analyse and identify solid materials such as in street drug formulations, drugs of abuse and its excipients. He has a strong interest to study molecular chemical structures in solid and gas phase.

Vibrational spectroscopy (for novel psychoactive substances (NPS) of synthetic cannabinoids) and quantum chemistry has become his interest as a tool to validate experimental vibrational spectra.

The identity of the formulation of street samples in particular drug of abuse and its adulterants remain an interest. He is also developing a vibrational research group with other researchers at UPM and UKM.

He also interested in developing a SERS substrate for the Mitragynine for quick screening in street formulation, besides analysing aerosol produced by a compact atomizers.

LINK TO POSTGRADUATE FIELD OF STUDY:

Analytical Chemistry, Vibrational Spectroscopy, Solid State Chemistry Theoretical and Computational Chemistry, FTIR and Raman Spectroscopy

ADDITIONAL INFORMATION:

<https://scholar.google.com.my/citations?user=sctCz38AAAAJ&hl=en>