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## Editorial

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### Azman Bin Hassan\*

Faculty of Chemical and Energy Engineering,  
Universiti Teknologi Malaysia,  
81310 UTM, Johor, Malaysia  
Email: azmanh@cheme.utm.my  
\*Corresponding author

### Nida Iqbal Khan

Faculty of Bioscience and Medical Engineering (FBME),  
Universiti Teknologi Malaysia,  
81310 UTM, Johor, Malaysia  
Email: nidaiqbal@biomedical.utm.my

### Mohammad Jawaid

Laboratory of Biocomposite Technology,  
Institute of Tropical Forestry and Forest Products (INTROP),  
Universiti Putra Malaysia,  
43400 UPM Serdang, Selangor, Malaysia  
Email: jawaid@upm.edu.my

**Biographical notes:** Azman Bin Hassan is currently serving as the Deputy Dean (Research and Innovations) in the Faculty of Chemical and Energy Engineering, Universiti Teknologi Malaysia (UTM). He started his career with UTM in 1984 and was appointed as a Professor in 2007. He received his PhD from the Loughborough University, UK in 1997. His area of research interests includes natural fibres composites, graphene, nanocomposites and flame retardant polymers. At postgraduate level, he has supervised more than 25 PhD and 30 Master's students. He has published more than 200 journal papers and has a Scopus *h index* of 23.

Nida Iqbal Khan is working as a Senior Lecturer at the Faculty of Biosciences and Medical Engineering (FBME) in University Technology Malaysia (UTM), Malaysia. She obtained her PhD in Biomedical Engineering from the UTM, Malaysia and MS/BS in Chemistry from the Punjab University Lahore, Pakistan. She has over eight years of experience in teaching and biomedical research. Currently, her main research focused on development low cost microwave and hydrothermal setup for the synthesis of nanoparticles, bioactive composites, biodegradable metals, implant coating, porous scaffolds (for guided bone regeneration) and in vitro cell culture studies. She has published many research articles in international journals having good repute with accumulated impact factor = 48.47, *h index* = 6 and participated in several national and international conferences and seminars.

Mohammad Jawaid is currently working as a Fellow Researcher and Associate Professor at the Biocomposite Technology Laboratory, Institute of Tropical Forestry and Forest Products (INTROP), Universiti Putra Malaysia, Serdang, Selangor, Malaysia. His area of research interests includes hybrid reinforced/filled polymer composites, advance materials: graphene/nanoclay/fire retardant, lignocellulosic reinforced/filled polymer composites, modification and treatment of lignocellulosic fibres and solid wood, nano composites and nanocellulose fibres, polymer blends. So far, he has published eight book, 18 book chapters, and more than 150 international journal papers and five published review papers under top 25 hot articles in *Science Direct* during 2013 to 2015.

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Nanotechnology is an enabling technology that has created many new materials and devices with a vast range of applications, such as in nanomedicine, nanoelectronics, biomaterials energy production, and consumer products. This technology is defined as the manipulation of matter with at least one dimension sized from 1 to 100 nanometres. Materials with structure at the nanoscale often have unique optical, electronic, or mechanical properties. Depending on the area of application, there are different timelines for the beginning of industrial prototyping and nanotechnology commercialisation. First generation products are already on the market such as paints, coatings and cosmetics. More products such as pharmaceuticals, diagnostics and applications in energy storage and production are in development.