
Editorial

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Biographical notes: Umer Rashid obtained his MSc degree in Chemistry from the University of Agriculture, Faisalabad, Pakistan, and PhD degree in Chemistry with specialisation in Analytical Chemistry from the same institute. He completed his Post-Doctorate in Green Engineering from the Universiti Teknologi Petronas, Malaysia. Currently, he is working as a High-flyer Researcher (Professor) in the Institute of Nanoscience and Nanotechnology at Universiti Putra Malaysia (UPM), Malaysia. He has a strong research background in renewable fuels, nanomagnetic catalysts, biobased bifunctional nanocatalysts, metal based nanocatalysts and nanomaterials development for wastewater treatment. He has published more than 280 research papers and his h-index is 56. He served as lead guest editor for Special Issue of *Catalysts*, *Frontiers in Energy Research*, *Current Organic Chemistry*, and *International Journal of Nanotechnology*.

5th International Symposium on Advanced Materials and Nanotechnology (iSAMN2021) was organised by Institute of Nanoscience and Nanotechnology (ION2) formerly known as the Institute of Advanced Technology (ITMA), Universiti Putra Malaysia, Malaysia, virtually on 9–10 December, 2021, due to COVID-19 pandemic. Our institute is one of the leading nanoscience and nanotechnology leading research centres in Malaysia in the field of nanotechnology and advanced materials. Our niche areas of nanoscale green synthesis and applications inspires researchers to conduct environmentally friendly and sustainable R&D. This is in line with the future needs of society and industry, particularly Industrial Revolution 5.0 (IR5.0) and Society 5.0 while at the same time emphasises achievements that support the 17 Sustainable Development Goals (SDGs). The theme of iSAMN2021 was Nanoscale Green Synthesis, and Applications.

The two days online event included three keynote lectures, 10 invited talks, and round 60 participants from 10 different countries. The success of the symposium was attributed to the quality and scope of the technical program, which covers the latest trends on the topics under the symposium theme. This special issue contains 10 research papers that were selected and peer-reviewed before the acceptance of these manuscripts. On the behalf of the technical committee, I would like to thank all the contributing authors for their valuable research to make iSAMN2021 special issue into reality and all the

reviewers for their great work and valuable time in evaluating the manuscripts. I would like to express my gratitude to Dr. Lionel Vayssieres the Editor-in-Chief of *International Journal of Nanotechnology*, for his generous support in preparing this Special Issue and his willingness to publish the contributions of the presenters of our symposium iSAMN2021 in IJNT.