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Development of Sunlight Responsive Nanostructured-Catalysts for Environmental Applications

Guest Editors:

Prof. Dr. Ravindranadh Koutavarapu
Department of Robotics and Intelligent Machine Engineering, College of Mechanical and IT Engineering, Yeungnam University, Gyeongsan 712-749, Korea

Dr. Malathi Arumugam
Center of Excellence on Catalysis and Catalytic Reaction Engineering, Department of Chemical Engineering, Faculty of Engineering, Chulalongkorn University, Bangkok 10330, Thailand

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Message from the Guest Editors

Dear Colleagues,

Various semiconducting nanomaterials, such as metal oxides, metal sulfides, noble metal nanoparticles, etc., have been utilized to fabricate the solar light harvesting photocatalysts capable of environmental remediation. However, the development of suitable bandgap nanostructures with multi-dimensional composites with sufficient band edge potentials is crucial to bringing about an efficient catalytic process under solar light irradiation. Submissions to this Special Issue on “Development of Sunlight Responsive Nanostructured-Catalysts for Environmental Applications” are welcome in the form of original research papers, mini-reviews, and reviews that reflect state-of-the-art research on this important subject in the following topics: new techniques for the fabrication of of various dimensional nanostructures, multi-dimensional nanocomposites, modification and doping of nanostructures, different pathways for the environmental remediation, and energy-related applications.

Prof. Dr. Ravindranadh Koutavarapu
Dr. Malathi Arumugam
Guest Editors