Special Issue

Nanomaterials for Chemical Engineering

Message from the Guest Editor

Scientists and engineers have emphasized the study of nanomaterials in recent decades. The superior properties of nanomaterials are helping to greatly improve and even revolutionize the development of various technology and industry sectors. Despite their many advantages, challenges present in the control and design of nanomaterials with specific properties (morphology, size, porosity, conductivity, optical property, photoelectric property, chemical activity, etc.) to meet with their functional aims. The main applications of nanomaterials in chemical engineering are in catalysts, coatings, adsorption, sensors, drug delivery etc., which all represent fascinating yet challenging research topics. This Special Issue welcomes contributions devoted to the synthesis and application of functional nanomaterials in chemical engineering, which includes the development of novel nanomaterials and synthesis methods, experimental characterization and computational modeling studies, as well as exploitation in devices and practical applications.

Guest Editor

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

Editor-in-Chief

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