Special Issue

Mesoporous and Microporous Materials for Energy and Environmental Applications

Message from the Guest Editor

This Special Issue aims to cover new mesoporous and microporous materials that play a role in the sustainable development of energy and environment, especially new structures and new technologies with potential industrial applications. In this Special Issue, original research articles, communications, and reviews are welcome. Research areas may include (but are not limited to) the following:

- The synthesis and physicochemical characterization of mesoporous and microporous materials, including new strategies to form new structures, adjust distribution of active sites, in situ spectroscopic and microscopic technologies, etc.;
- Mesoporous and microporous materials applied in green catalytic processes to improve energy utilization efficiency and reduce environmental pollution, including plastic degradation and reuse, biomass catalytic conversion, CO2-related adsorption and conversion, hydrogen energy storage, etc.

Guest Editor

Dr. Jingui Wang

School of Chemistry and Chemical Engineering, Qilu University of Technology (Shandong Academy of Sciences), Jinan 250353, China

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Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

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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

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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