Topical Collection

Micro/Nanoscale Open Framework Materials (OFMs)

Message from the Collection Editors

Open framework materials (OFMs), including metal–organic frameworks (MOFs), covalent organic frameworks (COFs), hydrogen-bonded organic frameworks (HOFs), porous aromatic frameworks (PAFs), and others, have emerged as promising materials. Thanks to their abundant functions derived from a unique combination of properties, such as tailored chemical functionality, high surface areas, uniform porosity, and well-defined periodic structures, they make suitable candidates for various applications. Currently, OFMs are attracting significant research interest from disciplines across chemistry, materials science, biomedicine, and engineering. This Topical collection of *Nanomaterials* focuses on the design, synthesis, characterization, and applications of these materials across various fields, including but not limited to gas storage and separation, chemical sensing, photoelectrocatalysis, pollutant adsorption and degradation, organic transformation, drug delivery, and so on. Original research articles, communications, and reviews are all welcome.

Collection Editors

Dr. Jian Wang

School of Chemistry and Materials Science, Jiangsu Normal University, Xuzhou, China

Prof. Dr. Junkuo Gao

School of Materials Science and Engineering, Zhejiang Sci-Tech University, Hangzhou, 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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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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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