

Special Issue

Nanomaterials in Covalent Organic Frameworks

Message from the Guest Editor

A decade ago, the beautiful world of covalent bonding was extended from conventional atomically-precise molecules to organic frameworks with well-defined morphologies. The seminal work of Yaghi and coworkers introduced a new concept beyond the molecule, by making covalently-linked two and three dimensional organic nanostructures characterized by inevitable features of crystallinity, porosity, and being entirely composed of light elements. The scope of our Special Issue covers all areas where research is being conducted on the nanoscale level for the field of covalent organic frameworks. Examples include, but are not limited to: Using COFs as nanomaterials for different applications (gas storage, catalysis, membranes, electronic devices, etc.), engineering the size of the nanopore system, encapsulation of nanoparticles or nanostructured systems within the framework, introducing creative synthetic approaches for structural and topological control (weaving, H-bonding, charged backbones, etc.). Please [click here to submit your manuscript](#).

Guest Editor

Dr. Ali M. Yassin

1. Technische Universität Berlin, Department of Chemistry, Hardenbergstr. 40, 10623 Berlin, Germany
2. University of Sciences & Arts in Lebanon -USAL Airport Road, Beirut, Lebanon

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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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