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Nanomaterials in Covalent Organic Frameworks

Guest Editor:

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Deadline for manuscript submissions:
closed (10 December 2018)

Message from the Guest Editor

Dear Colleagues,

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**.

Dr. Ali M. Yassin
Guest Editor

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Editor-in-Chief

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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.

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