

## Special Issue

# Advanced Metal–Organic Frameworks and Coordination Polymers: From Controlled Synthesis to Optoelectronic Applications

### Message from the Guest Editor

The goal of this Special Issue is to collect high-quality papers that demonstrate "application-ready" solutions. We welcome contributions that integrate MOFs and CPs into advanced device architectures, including thin-film transistors, high-selectivity gas sensors, and high-efficiency photovoltaic devices. By bridging the gap between material synthesis and device physics, this collection will serve as a comprehensive guide for researchers striving to enhance the stability and functionality of hybrid nanomaterials. Topics of interest for publication include, but are not limited to:

- Controlled synthesis and morphology engineering of MOFs and Coordination Polymers.
- Integration of MOFs with oxide semiconductors for multifunctional sensing.
- Mechanistic insights into gas–solid interactions and molecular sieving effects.
- Advanced activation techniques: photochemical vs. thermal activation.
- Long-term stability and environmental robustness of MOF-based devices.
- Coordination polymer coatings for antireflection and light management in solar cells.
- MOF-integrated optoelectronic systems, from synthesis to device-level performance.

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### Guest Editor

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### Deadline for manuscript submissions

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## Nanomaterials

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## About the Journal

### 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.

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### Editor-in-Chief

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