

## Topical Collection

# Metallic and Metal Oxide Nanohybrids and Their Applications

### Message from the Collection Editor

After more than half a century since their discovery, nanosciences still represent one of the most important breakthroughs of the modern world. The impressive advancements made within the fields of nanotechnology and nanobiotechnology have created novel means for the development and characterization of nanoparticles. Among them, metal and metal oxide nanoparticles possess unique physico-chemical properties, functionalities, and biological features which make them ideal candidates for a plethora of applications that range from environmental industries to pharmaceutical, cosmetics, and biomedical products and devices. The possibility to control and modulate their properties is constantly evolving, further allowing for the development of metal and metal oxide nanoparticles with multiple and various purposes. This Topical Collection will encompass the most recent progress within the synthesis and characterization of inorganic nanostructured materials and their utilization in biomedical, pharmaceutical, cosmetics, food packaging and preservation, environmental depollution, and renewable and green energy industries.

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### Collection Editor

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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.

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### Editor-in-Chief

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