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Novel Materials with Target Functionalities

Guest Editors:

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Deadline for manuscript submissions:
closed (10 August 2024)

Message from the Guest Editors

Dear Colleagues,

This Special Issue covers all types of materials with target functionalities (inorganic, organic, hybrid, thin films, artificial structures, nanocomposites, colloids) and welcomes papers addressing topics including but not limited to the following:

- Processing methods and technologies for novel materials with target functionalities;
- Structural and functional characterization studies;
- Theoretical models and simulations for materials' electronic structure and for phenomena observed in novel materials;
- Advanced applications of novel materials with target functionalities.

This Issue will include both reviews and original research papers that include theories and experiments on novel materials with target functionalities, on materials processing and characterization, and on all types of interactions and phenomena that explain materials' target functionalities.

See more information at https://mdpi.com/si/135215. We look forward to receiving your contributions.

Guest Editors

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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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