Special Issue

Functional Nanomaterials for Sensor Applications: Second Edition

Message from the Guest Editors

Functional nanomaterials are emerging as cogs enabling advanced research in many fields, including nanosized energy generation, environmental sustainability, electronic devices, pervasive sensors, biomedical engineering. This genuine interest is fueled by their structure and properties, paired with massive potential for integration into industrial applications. The scope of this Issue spans from the technologies involved in the synthesis and design of functional nanomaterials to their fabrication, properties, and application in the field of sensors. The Special Issue is open to both academic and industrial contributions focused on functional materials with electrical, thermal, magnetic, chemical, or electrochemical properties allowing the transduction of specific magnitudes or markers. Potential topics include, but are not limited to:
Integration of nanomaterials in sensors;
Chemi-resistive and chemi-capacitive functional sensors;
Energy storage/conversion nanomaterials for power-supplying sensor nodes;
Electronic devices including nanomaterial-based sensors;

Guest Editors

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Deadline for manuscript submissions

closed (30 November 2023)

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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.

Editor-in-Chief

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