Special Issue

Multifunctional Nanomaterials: Innovations in Energy Harvesting, Biological Applications, and Environmental Remediation

Message from the Guest Editors

Nanomaterials have emerged as versatile platforms with significant potential across various scientific and industrial domains. This Special Issue will focus on the latest advancements and interdisciplinary applications of multifunctional nanomaterials in three key areas: energy harvesting and storage, biological systems, and environmental remediation. Key Areas of Interest: Nanomaterials in Energy Harvesting and Storage: Nanomaterials for Biological Applications: Nanomaterials for Environmental Remediation: Submission Topics: We welcome contributions that include, but are not limited to: The synthesis, characterization, and functionalization of advanced nanomaterials;
Nanomaterials in renewable energy technologies (solar, hydrogen, and bioenergy);
Biocompatible nanomaterials for diagnostics, therapeutics, and regenerative medicine;
Multifunctional nanomaterials for integrated water, air, and soil remediation;
Computational modeling and theoretical insights into nanomaterial properties and interactions.

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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

Prof. Dr. Eugenia Valsami-Jones
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