Special Issue

Research and Development of Bioactive Nanomaterials

Message from the Guest Editors

The rapid advancement of academic research and industrial technologies in nanomaterials, particularly those with biological activity, has positioned this field at the forefront of modern science and innovation. While conventional materials and technologies remain integral to current applications, the potential of biologically active nanomaterials continues to grow, propelled by multidisciplinary advances in fields such as mathematics, information technology, optoelectronics, photonics, molecular biology, and nanotechnology. A deeper understanding of the structural and functional properties of nanomaterials, as well as their interactions with biological systems, has unlocked highly precise and adaptable applications across all levels of biological organization, ranging from molecular to ecological scales. Due to their unique optical, electronic, and chemical properties, many pristine nanomaterials exhibit intrinsic bioactivity, which can be further refined through functionalization strategies, including the incorporation of bioactive ligands, crosslinking with biomolecules, or the development of bio-hybrid systems.

Guest Editors

Dr. László Nagy

Dr. Francesco Milano

Dr. Livia Giotta

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Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

mdpi.com/journal/nanomaterials

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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
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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