

Special Issue

Green/Sustainable Synthesis of Nanomaterials: Theranostics, Immunomodulation and Environmental Applications

Message from the Guest Editors

In recent decades, due to increasing waste, environmental toxicity, and harmful effects on living organisms, many chemical, agricultural, and pharmaceutical industries have been trying to implement green policies. Among them, the synthesis methods of nanostructured materials are also moving toward alternative routes to traditional chemical and physical procedures requiring high energy consumption, use of toxic solvents, and high temperatures. This makes it possible to obtain structures with different sizes, shapes, and surface charges that can be used in multiple fields of application, such as environmental, therapeutic, and biological applications. The special issue includes but is not limited to the following topics:

- nanomaterials
- nanocomposites
- metal/metal oxide
- carbon-based nanomaterials
- adsorption
- advanced oxidation processes
- catalysis
- photocatalysis
- sensors
- antimicrobial
- antibacterial
- drug delivery
- cancer therapy
- tissue engineering

For more details, please see the Special Issue homepage.

Guest Editors

Dr. Jagpreet Singh

1. Department of Chemical Engineering, Chandigarh University, Gharuan, Mohali 140413, India
2. University Centre for Research and Development, Chandigarh University, Gharuan, Mohali 140413, India



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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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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