

Special Issue

Metallic Nanoparticles and Their Assembly within Hybrid Nanostructures for Environmental Applications

Message from the Guest Editor

Nanoparticles-based nanotechnologies currently have a prominent position in research and are used to improve many aspects of our daily life. Alone or in combination with other nanomaterials, their characteristics (i.e., size, shape, composition, and environment) can give them remarkable properties that, if suitably exploited, allow groundbreaking results to be obtained in several application fields. In particular, health and environment are fields where the use of nanoparticle-based nanomaterials has provided an important contribution—for example, in gas or bio-sensors, renewable energy production, energy storage systems, photo-electrocatalysis, and so on. This Special Issue aims to collect manuscripts dealing with the use of metallic nanoparticles alone or in combination with other nanomaterials (i.e., carbon nanostructures or semiconductor nanomaterials), or even as a part of polymeric nanocomposites, focused on solving different environmental issues. For further reading, please follow the link to the Special Issue Website at: <https://www.mdpi.com/si/22936>

Guest Editor

Dr. Ileana Florea

LPICM-Ecole Polytechnique, CNRS, route de Saclay, CEDEX, 91128 Palaiseau, France

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

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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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