Special Issue

Laser-Assisted Synthesis of Nanomaterials

Message from the Guest Editor

The use of lasers for the synthesis of nanomaterials continues to represent an important area of academic and applied research. There are numerous approaches by which nanomaterials can be synthesized by laser techniques. We invite authors to contribute to this Special Issue with original research articles and comprehensive review articles covering the most recent progress and new developments in the field of laser synthesis of nanomaterials. This Special Issue aims to cover a broad range of subjects, from fundamental mechanisms and modeling of nanomaterial synthesis to the design and characterization of novel schemes of laser installations for the synthesis of nanoparticles and nanostructures. Potential topics include, but are not limited to:

- laser synthesis of nanocomposites;
- green laser synthesis of nanoparticles in liquids;
- laser design and the preparation of novel nanotextured/nanostructured surfaces for SERS and other applications;
- fundamental aspects of the laser synthesis of nanomaterials;
- laser synthesis of nanoparticles for medical and biological applications; and
- industrial-scale laser synthesis of nanoparticles

Guest Editor

Prof. Dr. George A. Shafeev
Prohorov General Physics Institute of RAS, Moscow, Russia

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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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