

Special Issue

Nanomaterials Engineering by Green Techniques: Concepts and Applications

Message from the Guest Editor

Nanomaterials are widely used as functional elements on surfaces and nano-hybrid systems for various technological applications, requiring specific morphology and surface chemistry. The development of synthesis methods reliably scaled up to industrial production levels is now the target required to expand nanomaterials applicative prospects. Among green techniques, liquid pulsed laser ablation has demonstrated its versatility as a scalable method while laser melting in liquid promote high purity alloys formation. The goal of this Special Issue is to collect relevant contributions from experts in nanomaterials production to discuss recent developments of green techniques.

Topics of this Issue cover a wide range of R&D fields:

- * Green techniques fundamental aspects and nanoparticles properties;
- * High throughput laser-generated nanoparticles synthesis and laser materials processing;
- * Nanomaterials sensing, energetic, SERS and NLO applications.

Guest Editor

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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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