Special Issue

Process Intensification Techniques for the Production of Nanoparticles

Message from the Guest Editors

The global nanoparticle market size was estimated at about USD 1 billion in 2018, and according to various agencies, it is expected to register a CAGR of 10.3% over the forecast period. This notable growth is due mainly to the wide field of applications of nanotechnology, since it serves as a revolutionary and beneficial technology across medicine, transportation, agriculture, energy, materials, manufacturing, and the food sectors. In this framework, process intensification may play a fundamental role to favor the industrialization of nanoparticle production processes, usually carried out by lab-scale or pilot-scale equipment. The intensification of classical production processes, usually conducted batchwise, has becoming the main research field of various scholars and companies, considering the growing demand for nanoparticles in the global market [...] For further reading, please follow the link to the Special Issue website at: https://www.mdpi.com/si/37847

Guest Editors

Dr. Marco Stoller

Department of Chemical Engineering, University Sapienza of Rome, Via Eudossiana 18, Rome, Italy

Prof. Dr. Giorgio Vilardi

Department of Chemical Engineering Materials Environment, Sapienza University of Rome, 00185 Rome, Italy

Deadline for manuscript submissions

closed (28 February 2021)

Nanomaterials

an Open Access Journal by MDPI

Impact Factor 4.3
CiteScore 9.2
Indexed in PubMed

mdpi.com/si/37847

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

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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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