

Topical Collection

Process Intensification, Process Design and Green Techniques for Nanomaterials Production and Applications

Message from the Collection Editors

Process intensification (PI) is considered one of the most valuable development pathways for the industry, leading to increased efficiency, higher yields, plant-size decreases, better process safety implementations, lower cost as well as minimization of waste at the source, which leads to reduced environmental pollution. PI is capable of fulfilling these needs and has become fundamental to the sustainability of production processes due to the increasing global demand for space, energy, health, environment and more “green” technology.

In further detail, PI appears to be an interesting and outbreking concept for nanoparticles and nanomaterials production processes. The concept design, development, implementation, validation, construction, control or use of novel PI equipment is welcome. These devices are able to uptake research and process development at the laboratory scale but can reach productivity levels that have exciting potential for industrial use... For further reading, please follow the link to the Special Issue website at: <https://www.mdpi.com/si/113183>.

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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