



Redesign of Materials, Processes and Products for the Implementation of Safe-and-Sustainable-by-Design Nano-Manufacturing

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Deadline for manuscript
submissions:

closed (30 September 2023)

Message from the Guest Editors

Dear Colleagues,

The implementation of safe-and-sustainable-by-design nano-manufacturing requires a deep knowledge of material properties across the life-cycle, to form a design hypothesis and develop materials and nano-enabled products that fulfil the criteria of maximising functionality, minimising hazard and exposure potential, satisfying the environmental impact and cost requirements (all the dimensions suggested by the JRC Framework as the criteria and evaluation procedure for chemicals and materials). To take advantages of the sector-specific issues and target solutions, and extend this approach to real case studies, contributions showing practical examples (case studies) of how this approach is implemented to develop new materials and products are expected.

This Special Issue of *Nanomaterials* will cover the redesign of materials, processes and products for the implementation of safe-and-sustainable-by-design nano-manufacturing. The format of welcomed articles includes full papers, communications, and reviews.

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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.

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