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Wet Chemical Synthesis of Functional Nanomaterials

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Message from the Guest Editors

Dear Colleagues,

Wet chemical synthesis, also called solution processing, represents an accessible, versatile and powerful approach for synthesizing materials with excellent control of their structural, chemical and physical properties, which are considered more effective in producing high-quality nanomaterials, especially for use in optics and electronics.

We invite authors to contribute either research articles or reviews to this Special Issue dedicated to the wet chemical synthesis and/or their functional application of functional nanomaterials.

A non-exhaustive selection of potential topics of interest is as follows:

1. Synthesis of nanomaterials through sol-gel chemistry
2. Design and synthesis of molecular precursors for nanomaterials
3. Colloidal synthesis of nanoparticles
4. Wet chemical synthesis of 2D materials
5. Deposition of nanostructured thin film coatings from liquid precursors
6. Fabrication of solution-processed devices (solar cells, LEDs, batteries, supercapacitors, gas and light sensors, transistors, etc.)
7. Scale-up synthesis of nanomaterials (large batch reactions, flow chemistry, etc.)

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Special Issue



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Editor-in-Chief

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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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