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Advances in Stimuli-Responsive Nanomaterials

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Deadline for manuscript submissions:
closed (1 November 2022)

Message from the Guest Editors

Dear Colleagues,

This Special Issue of *Nanomaterials* on "Advances in Stimuli-Responsive Nanomaterials" will attempt to capture recent advancements in smart nanomaterials. It welcomes both theoretical and experimental approaches, covering aspects from the design and synthesis of novel nanomaterials or nanocomposites with stimuli-responsive properties, characterization, and analysis on the working principle and regulating mechanism of stimuli-responsive activities or performances, and the development of new smart devices based on stimuli-responsive nanomaterials. Both reviews and original research articles are welcome.

Keywords:

- Stimuli-responsive materials
- Smart materials and devices
- Nanomaterials and nanocomposites
- Electro-/magnetorheological fluid
- Micro-/nanomotors
- Metamaterials
- Field responsive photonic crystals
- Ferro-/piezoelectric materials
- Photoelectric and photocatalytic materials
- Responsive polymers

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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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