

Special Issue

Functional Nanomaterials and Polymer Nanocomposites: Current Uses and Potential Applications

Message from the Guest Editor

Recently, smart nanoparticles have received a great deal of attention among researchers and academicians due to their unique physical properties and wide applications, including drug delivery, biomimetic devices, contrast agents in magnetic resonance imaging, hyperthermia, cell manipulation, security systems, information storage devices, quantum computing, magnetic sensors and actuators, energy harvesting, catalysis and magnetic separation, spintronic-based devices, electronic devices, lasers, Li-ion batteries, solar cells, bio-imaging, thermal therapy, etc. This Special Issue aims to cover a broad range of subjects, from smart nanoparticles and polymer nanocomposite synthesis and the study of their fundamental properties to the fabrication and characterization of devices and emerging technologies with smart nanoparticles and polymer integration. We invite authors to contribute original articles or review articles covering the most recent progress and new developments in the synthesis of smart nanoparticles. Manuscripts can be submitted in the following formats: full research papers, communications, and reviews.

Guest Editor

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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