

Special Issue

Nanocrystals, Nanoclusters, Nanoparticles: Synthesis and Optical Properties

Message from the Guest Editor

Recent progress in the field of controlling matter at the nanoscale has impacted science in a rather unprecedented way. With advances in the synthesis and control of morphology, chemical composition, as well as in the sizes and shapes of nanoparticles, nanocrystals, and nanoclusters, it has become possible to tune their properties on demand. In turn, interactions between these nanomaterials and molecular systems have been investigated in a broad range of aspects, including optoelectronics, sensorics, photocatalysis, artificial photosynthesis, and many more. Moreover, such materials can also be frequently coupled with biomolecules in a controlled way, affecting their properties and functions. Thus, multiple functionality systems, such as theranostic agents, have been proposed.

The aim of this Special Issue is to provide a platform for collecting work focused on various aspects of the synthesis and optical characterization of nanoparticles, nanocrystals, and nanoclusters, where synergy effects can be studied and exploited. Experimental and theoretical papers, review articles, and commentaries are all welcome.

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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