

Special Issue

Exploring Molecular-Scale and Nano-Scale Materials: Design, Characterization and Application

Message from the Guest Editor

The preparation and application of materials with special properties are closely related to addressing problematic challenges of industries in different sectors. Concerning advanced materials, there is a wide range of molecular-scale and nano-scale studies on their applications in biochemistry, molecular medicine, metal-ion batteries, and various components related to energy. The physicochemical properties of molecular-scale and nano-scale materials depend on their composition and structure, but they are also affected by the preparation process. Furthermore, optimized design and characterization techniques are critical to establishing materials' reliability in practical applications. This Special Issue aims to provide a research forum for reporting studies on molecular-scale and nano-scale materials. The aim is to explore novel possibilities for their design and application, as well as to address current problematic challenges. In addition to the studies mentioned above, topics of interest include relevant studies on the design, regulation, characterization, and cytotoxicity of novel nanomaterials, which could further enhance our current knowledge of nano-mechanisms.

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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