

Special Issue

Molecular Structure of Minerals

Message from the Guest Editors

The molecular structure of minerals is the basic feature of each mineral, the fundamental factor determining the mineral morphology, physical properties, and genesis, and an important symbol for the generation and evolution history of minerals. At present, the characterization techniques studying the molecular structure characteristics of minerals include XRD, thermal analysis, FTIR, Raman spectroscopy, and morphology observation techniques such as SEM and AFM. The characterization of mineral molecular structures can provide a scientific basis for the study of mineral genesis and evolution as well as the interpretation of various geological phenomena. For this special issue on "Molecular Structure of Minerals", we welcome the submission of original research articles, introducing the latest frontiers and developments in the characterization of mineral molecular structures, mineral evolution laws, mineral surface–interface interactions, high-pressure new minerals, and research on the mechanism of mineral phase transformation.

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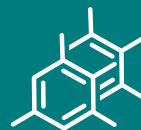
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Deadline for manuscript submissions

closed (30 November 2024)



Molecules

an Open Access Journal
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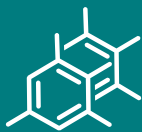


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As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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