Special Issue

Halogen Bond in Crystalline Systems

Message from the Guest Editors

Halogen bonding is a highly investigated and well-established noncovalent interaction in the formation of numerous inorganic and molecular solids. Halogen bonding continues to be an important interaction in the areas of supramolecular chemistry and crystal engineering which focuses on the design of functional materials. Halogen bonding has been exploited to control molecular recognition, photochemical behavior, and thermal expansion in molecular solids as well as the design of extended networks with novel topologies. This Special Issue aims to highlight the latest advances in halogen bonding as it applies to any and all areas of the design and formation of functional crystalline solids.

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As the premier open access journal dedicated to molecular chemistry, now in its 30th 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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