Special Issue

Halogen Bonding: Fundamentals and Applications

Message from the Guest Editors

Halogen bonds, analogous to the ubiquitous hydrogen bond, are noncovalent interactions between an electrophilic region of a halogen atom and a nucleophilic region of a molecular entity (e.g., electron-pair-donating heteroatoms or π-system). A reemergence of this special class of -hole bonding has recently attracted special attention. In recent years, ingenious design strategies, computational analyses, and structural models have afforded progression beyond the field of crystal engineering and pharmaceutics to material science and nanotechnology. Inspired by the great potential of halogen bonding in supramolecular complexes and bottom-up approaches, it is the intention of this Special Issue to provide an overview on several aspects of halogen bonding in fundamental and applied science. This Special Issue "Halogen Bonding: Fundamentals and Applications" in Inorganics will take stock of the efforts and results of the many groups that have made evident progress in the field.

Guest Editors

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Dr. Davita L. Watkins

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

Editor-in-Chief

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