Special Issue

Hypervalent Compounds

Message from the Guest Editor

There are several compounds from main group elements that have formally more than eight valence electrons, called hypervalent compounds. Some people suggested the use of the term “hypercoordinate”rather than “hypervalent”. Although the hypervalent compounds were previously believed to be unstable species or reaction intermediates, a variety of hypervalent compounds of phosphorus, sulfur, silicon, iodine, and other main group elements have been synthesized as a stable form to date. Their structure, reactivity, and property have been studied both experimentally and theoretically. In addition to such the fundamental studies, several hypervalent iodine compounds are applied effectively to organic synthesis. This special issue of Molecules will consider any aspect associated with hypervalent compounds.

Guest Editor

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th 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 multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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