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

Dr. Naokazu Kano

Department of Chemistry, Graduate School of Science, The University of Tokyo, 7-3-1 Hongo, Bunkyo-ku, Tokyo 113-0033, Japan

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Molecules
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
molecules@mdpi.com

mdpi.com/journal/molecules

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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.

Editor-in-Chief

Prof. Dr. Thomas J. Schmidt
Institute of Pharmaceutical Biology and Phytochemistry, University of Münster, Corrensstrasse 48, D-48149 Münster, Germany

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