Special Issue

Noble Gas Compounds and Chemistry

Message from the Guest Editor

The present editorial project aims to provide a landscape view of the current different approaches to investigate noble gas compounds and chemistry. Generally, noble gases are perceived as lowly reactive. In fact, only krypton and xenon produce compounds under ordinary (or nearly ordinary) conditions. However, in environments such as cold matrices and high-pressure devices or in gaseous phase, all noble gases, including helium, neon, and argon, really "forget" to be inert, and form a variety of molecules and ions. These species are investigated not only by experimental methods but also by theoretical calculations, extensively employed to aid the interpretation of the experiments and to explore aspects that escape the experimental work. This Special Issue wishes to illustrate the different approaches that are currently taken to explore the structure, bonding, and reactivity of noble gas compounds and to highlight the implications of their chemistry for different issues of fundamental and applied interest.

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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