Special Issue

Design Strategies for Metal Complexes that Activate Bio-Related Small Molecules

Message from the Guest Editors

In living organisms, there are many metalloenzymes that activate biologically active small molecules such as hydrogen, oxygen, nitrogen, methane, and carbon dioxide. Currently, the structures and functions of many of these enzymes are being clarified by excellent structural and spectroscopic analysis methods. At the same time, research is being conducted to mimic the structure and function of these enzymes using metal complexes, and to develop catalysts that can function under environmental-friendly conditions in order to contribute to our lives in the future. In this special issue, as a message to future bioinorganic chemists and catalysis researchers, we invite papers on design strategies of metals and ligands focusing on the activation of small molecules from many researchers, in this case, oxygen and nitrogen.

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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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