

Special Issue

Organometallic Compounds and Their Applications

Message from the Guest Editor

Organometallic compounds (OMCs) play a critical role in modern chemical science and are used in many areas of chemistry, not only as fundamental research objects but for a variety of practical applications. Luminescent OMCs are widely used to create electroluminescent devices, and for the design of labels for visualization of biological structures and processes, fluorescent sensors for precision measurement of temperature and pH, oxygen mapping, drug delivery tracing, generation of singlet oxygen, sensing of different ions in the solution, and sensing of small molecules. OMCs play an undoubtable role in the problem of solar energy conversion and light harvesting processes, creation of materials for photonics and non-linear optics, design of information storage and transfer systems, and design of metallomesogens, molecular magnets, and magnetic materials. OMCs can be used as building blocks for the construction of cage compounds, coordination polymers, MOFs, supramolecular systems, and as sources for nanostructured materials and nano-hybrid composites. Communications, articles, and reviews on the abovementioned topics are welcome.

Guest Editor

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Message from the Editor-in-Chief

As the premier open access journal dedicated to molecular chemistry, now in its 30th 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.

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