Special Issue

The Role of Bridging Ligands in the Synthesis of Advanced Molecular Materials

Message from the Guest Editor

The search for synthetic strategies in the synthesis of materials of desired compositions and properties has always been a very important part of chemistry. Such materials today are of a rather complicated and polymeric nature. The solution to this problem is still quite far away, but the main strategy to reach a solution should be based on very simple reactions, in which "click by click" repeatable steps should arrange substrates in more complicated blocks of a predictable structure. In coordination chemistry, there are several approaches to such materials. In molecular materials the use of a bridging ligand is the simplest way to direct the synthesis in the desired direction. Bridging ligands are one of the oldest types of ligands in coordination chemistry, even if there was no awareness of their existence at the time; a good example of this is Prussian blue. In molecular magnets, the cyanido ligands are the most popular for observing the metal–metal interactions, as these ligands should be as short as possible.

Guest Editor

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Deadline for manuscript submissions

closed (31 January 2024)

Molecules

an Open Access Journal by MDPI

Impact Factor 4.6
CiteScore 8.6
Indexed in PubMed

mdpi.com/si/177285

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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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