

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.

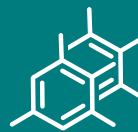
Guest Editor

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