Special Issue

Binuclear Complexes

Message from the Guest Editor

Binuclear complexes of transition metals have attracted the interest of a great number of chemists for several decades in their quest for new homogeneous catalysts, as well as in mimicking, with simple molecular models, the active sites of metalloenzymes or the surfaces of heterogeneous catalysts. Currently, the activation of small molecules using dinuclear complexes is a modern challenge that offers promising perspectives. The attractiveness of such systems lies in the expected cooperative bimetallic activation that two proximate metal centers may afford, and in their ability to induce transformations of substrates that are different from those observed with catalysts having a single-metal center. Moreover, coordinatively-unsaturated dinuclear compounds, featuring metal–metal multiple bonds provide original templates, as well as electron-reservoirs for multisite activation. This Special Issue aims to highlight recent developments in bimetallic complex topics, covering their syntheses, characterization, and stoichiometric reactivity or catalytic activity for novel activation modes of substrates, as well as electrochemical and theoretical studies.

Guest Editor

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Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

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