Special Issue

Polyoxometalate Chemistry for Smart Materials

Message from the Guest Editors

The chemistry of polyoxometalates has a rich and challenging history, starting from the chemistry of Keggin and Dawson-type structures to the chemistry of nanoscale-sized molecules. Polyoxometalates (POM) form a unique field of research at the edge of inorganic, coordination and supramolecular chemistry. Recent progress in polyoxometalate science focuses on the following directions: (i) The preparation of fully inorganic or hybrid organic/inorganic polyoxometalate-based coordination polymers which are stable enough to access numerous catalytic applications; (ii) Engineering of polyoxometalate-based smart materials for various applications covering solar cells, flow batteries, supercapacitors, etc.; (iii) The state of the art in self-assembly reactions for nanoscaled inorganic or hybrid organic/inorganic molecules preparation; (iv) Biochemical and biomedicine applications against SARS-CoV-2 and so on. In this Special Issue, we wish to cover the most recent advances in polyoxometalate science by hosting a mix of original research articles and comprehensive review papers.

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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.

Editor-in-Chief

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