Special Issue

Redox-Active Ligand Complexes

Message from the Guest Editors

Complexes containing redox-active ligands possess properties derived from the redox-active ligand component as well as the metal ion, and so they are expected to exhibit a wide variety of physical properties, such as conductivity, magnetism, and dielectric and optical properties in the condensed phase. The electron transfer between a redox-active ligand and metal center induces various intriguing dynamic phenomena, such as valence tautomerism, and other electron-transfer-induced magnetic and dielectric transitions. Moreover, the recent development of electrically conducting metal–organic frameworks opens the possibility of using redox-active ligand complexes for novel practical applications (such as sensory materials). This Special Issue aims to collect research and review contributions focused on recent advances in fundamentals and applications of redox-active ligand complexes. We invite you to contribute your research or review articles concerning redox-active ligand complexes, which we expect will make a great impact on the future direction of redox-active ligand chemistry.

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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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