Special Issue

Inorganic Metal-to-Ligand Clusters

Message from the Guest Editors

Metal-to-ligand clusters have very diverse nature, such as polyoxometalates, metal–organic polyhedra, and metal-chalcogenide/halide clusters. Their rich solution equilibria and a remarkable structural variety allow for systematic compositional variations, resulting in molecular entities with diverse properties (e.g., acidity, outstanding redox behavior, magnetism, catalytic, and/or biological activity) arising from the combination of both inorganic metal cations and non-metallic ligands. This Special Issue aims to emphasize advances in the chemistry of such inorganic clusters from fundamental aspects (synthesis, reactivity, spectroscopy, structure, and solution studies) to functional materials that incorporate these molecular units (organic polymers, functional surfaces, inorganic matrixes, and nanoparticles), as well as their potential applications in fields like catalysis, photo- and electrochemistry, electronics, optics, bio-medicine, energy storage, sorption, and environmental remediation.

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Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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