Special Issue

Explorations in Luminescent Complexes

Message from the Guest Editor

Metal–organic coordination complexes can be made to exhibit a wide range of photoluminescence (PL) behaviors by the integration and installation of metal ions, organic linkers, and inclusion guests. The PL's origins can be multifaceted, from ligand/metal/guest-centered to involving metal-to-ligand, ligand-to-metal, or host–guest charge transfer states. The photon conversion and energy transfer processes can be differentiated from one-photon down-shifts to two or multi-photon up-conversions, resulting in UV/visible/near-infrared fluorescence, phosphorescence, or persistent luminescence. The PL tuning and modulating strategies can vary from temperature, pressure, solvent, ions, or pH to light, electric, or magnetic fields. The potential applications are abundant, and range from lighting, displays, lasing, imaging, sensing, and detecting to barcoding and anti-counterfeiting. We will dedicate this Special Issue to state-of-the-art explorations of any aspect of luminescent complexes.

Guest Editor

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As the premier open access journal dedicated to experimental organic chemistry, and now in its 25th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts and novel materials. Pushing the boundaries of the discipline, we invite papers on multidisciplinary topics bridging biochemistry, biophysics and materials science, as well as timely reviews and topical issues on cutting edge fields in all these areas.

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