

Special Issue

Rare-Earth Luminescent Materials

Message from the Guest Editor

Rare-earth ions, featuring unique 4f electronic configurations, exhibit exceptional luminescent properties, including sharp emission lines, long lifetimes, and tunable emission wavelengths spanning the ultraviolet, visible, and near-infrared (NIR) spectral regions. These ions, when incorporated into various hosts, enable the design of advanced luminescent materials with tailored optical properties. Recent contributions have demonstrated the significant potential of rare-earth-doped luminescent materials in a wide range of applications, covering solid-state lighting, high-resolution displays, optical thermometry, bioimaging, and anti-counterfeiting. These materials are also increasingly explored for their role in next-generation optoelectronic devices, such as photovoltaic cells, laser systems, and advanced optical sensors. This Special Issue, entitled “*Rare-Earth Luminescent Materials*”, focuses on the latest advancements in rare-earth-based luminescent materials, including, but not limited to, the fundamental mechanisms of luminescence, novel synthesis techniques, and the optimization of material properties for functional applications.

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.

Editor-in-Chief

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