

Special Issue

Photoluminescence and Scintillation Properties of Rare Earth-Doped Materials

Message from the Guest Editors

Luminescent compounds based on rare earth ion doping exhibit light emission upon excitation by a range of sources, including ultraviolet (UV) radiation, visible (Vis) light, X-rays, particle beams, and neutrons. Among them, scintillators are capable of converting high-energy radiation into light pulses. Scintillators play a vital role in a wide range of applications, such as airport security, imaging, theragnostics, oil exploration, and high-energy particle physics and astrophysics. Scintillators can be synthesized in various forms, including large and small single crystals, crystalline fibers, thin films, powders, and nanoparticles, depending on the intended application. This Special Issue is dedicated to the comprehensive study of photoluminescent and scintillating materials incorporating rare earth elements, spanning topics from fundamental research to practical applications. Contributors are therefore invited to submit original research and review articles addressing all relevant aspects of this field. We invite you to submit original research and contribute to advancing the field of photoluminescence and scintillation properties of rare earth-doped materials.

Guest Editors

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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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