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Advanced Luminescent Materials: Synthesis, Properties and Applications

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Message from the Guest Editors

Dear Colleague,

Recently, novel advanced luminescent materials, including triplet emitters (e.g., luminescent transition-metal complexes (LTMCs) and thermally activated delayed fluorescent (TADF) materials) and doublet emitters (e.g., organic radicals, rare-earth complexes), have played a crucial role in the development of advanced photofunctional materials. Owing to their diverse structural/molecular design, structural diversity, and rich photophysical properties, these luminescent materials have attracted extensive attention, and have been widely and wisely used in the fields of photocatalysis, electroluminescence, organic solar cells, biological sensing and imaging, photodynamic therapy, etc. Chemists can design and prepare a wide variety of photofunctional materials. Structural studies of these materials revealed the presence of novel photophysical phenomena, allowing a deeper understanding of the structure–property relationships and extending their potential applications. This Special Issue should become a timely status report summarizing and showcasing the fundamental progresses and practical advancements in recent years



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Special Issue



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Message from the Editor-in-Chief

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