

Special Issue

Platinum Group Metal Complexes as Luminescent Materials

Message from the Guest Editors

Recently, luminescent complexes of platinum group metals have attracted much attention because of their intriguing spectroscopic and luminescent properties. Whereas organic light emitters are predominantly fluorescent, in such compounds, the presence of strong spin-orbit coupling due to the effect of a heavy atom—a metal center—contributes to the formally forbidden transition from the singlet to the triplet state, enabling phosphorescent relaxation, which leads to the longer lifetime of the excitation state in microsecond domains and higher photoluminescence quantum yields. In particular, the luminescent materials based on platinum group metal complexes have a broad range of applications in the fields of light-emitting devices, luminescent chemosensors, bioimaging agents, and photocatalysis. In this Special Issue, we will cover the most recent advances in luminescent materials based on platinum group metal complexes by including a mix of original research articles and critical reviews.

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