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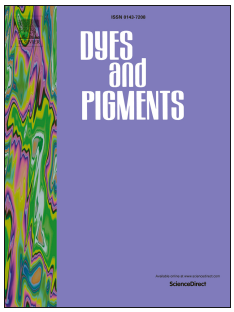

Different structures modulated mechanochromism and aggregation-induced emission in a series of Gold(I) complexes

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Different Structures Modulated Mechanochromism and Aggregation-induced Emission in a series of Gold(I) Complexes

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Graphical Abstract

Five novel gold(I) complexes with distinct diverse (bicolor or tricolor) switching mechanochromic and prominent AIE properties have been reported in present work. Abnormally, the *e*- and *a*-conformers coexisted in the same crystal unit cell for mono-substituted cyclohexyl Au(I) complex, which is quite rare in the similar gold systems. The five newly-developed(I) complexes are anticipated to be used as fluorescent detector and mechanosensors.