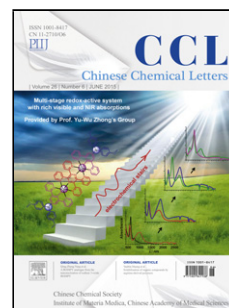


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Communication

Self-twisting for macrochirality from an achiral asterisk molecule with fluorescence-phosphorescence dual emission

Hongwei Wu^{a,b}, Bin Wu^a, Xiyuan Yu^a, Pei Zhao^a, Wenbo Chen^c, Liangliang Zhu^{a,*}

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Graphical Abstract

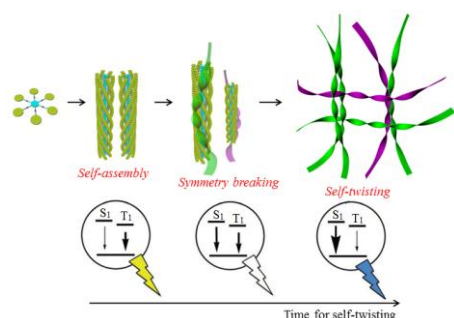
Self-twisting for macrochirality from an achiral asterisk molecule with fluorescence-phosphorescence dual emission

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A self-progressing chiral self-assembly from an achiral and C_6 -symmetric molecule, resulting in a chiral amplification with prolonging the time. The system shows three distinct luminescent colors with the change of time in the same solution system.

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ABSTRACT

Understanding of the role of supramolecular chirality for tuning material optoelectronic properties has been restricted by the limited number of cases. A particular challenge is to impose supramolecular chirality onto multicolor luminescent systems that can emit in aggregation state. Here we present a self-assembly strategy from a well-selected asterisk molecule for generating supramolecular chirality with fluorescence-phosphorescence

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