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Furan-based diketopyrrolopyrrole chromophores: Tuning the spectroscopic, electrochemical and aggregation-induced fluorescent properties with various intramolecular donor-acceptor spacers

Tao Tao, Liang Chen, Hui Cao, Min-Dong Chen, Wei Huang



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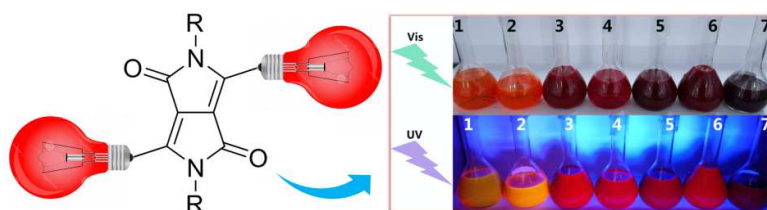
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## Graphical Abstract

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**A family of furan-based diketopyrrolopyrrole chromophores, which presents red fluorescent characteristic properties with the emission maximum at 709 nm, has effective  $\pi$ -conjugated systems and adjustable electronic properties.**

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