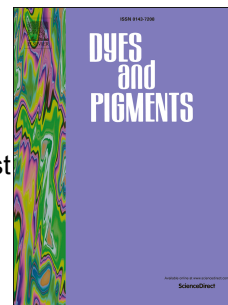


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A photo-switchable dual-modality linear supramolecular polymer based on host–guest interaction of cyclodextrin and pseudorotaxane

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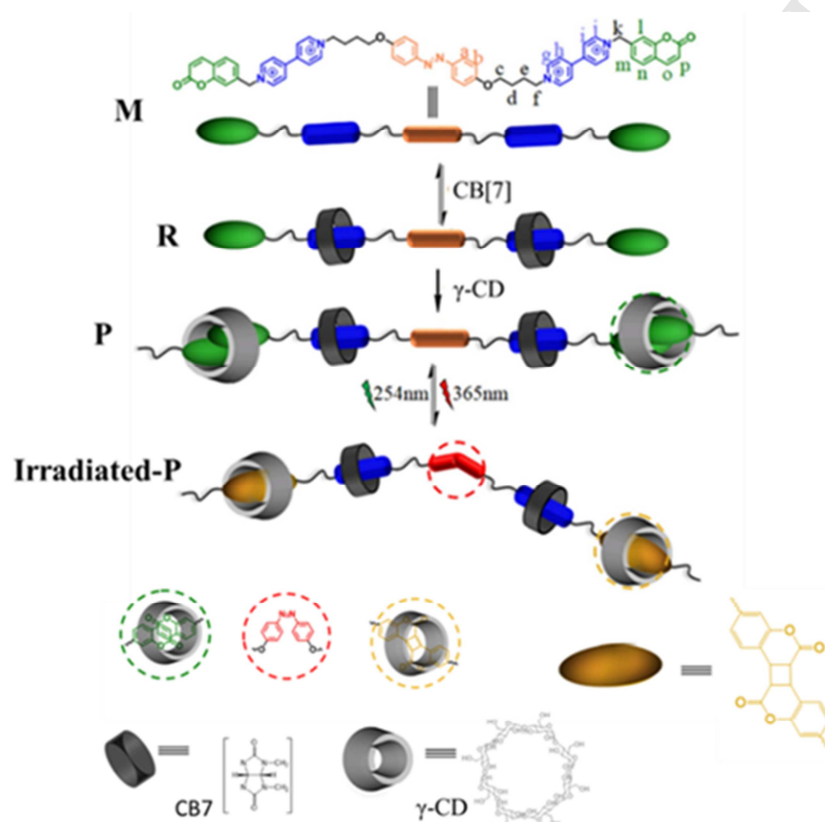
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Graphical Abstract

A Photo-Switchable Dual-Modality Linear Supramolecular Polymer Based on
Host–Guest Interaction of Cyclodextrin and Pseudorotaxane



A novel light-driven noncovalent–covalent switchover linear supramolecular polymer was constructed in aqueous solution via the host–guest molecular recognition of γ -cyclodextrin and cucurbit[7]uril-based pseudo[3]-rotaxane containing two photoresponsive coumarin moieties. This supramolecular polymer also could convert between noncovalent polymers and corresponding covalent polymers due to the photo-induced reversible dimerization and cleavage properties of the coumarin moiety in the cavity of γ -cyclodextrin. So the fabrication of linear supramolecular polymer

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