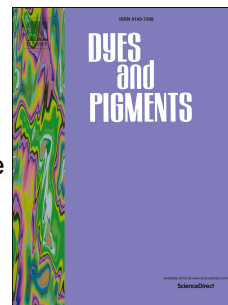


# Accepted Manuscript

Light/chemo dual-controlled supramolecular assembly with multi-modes based on the self-sorting function

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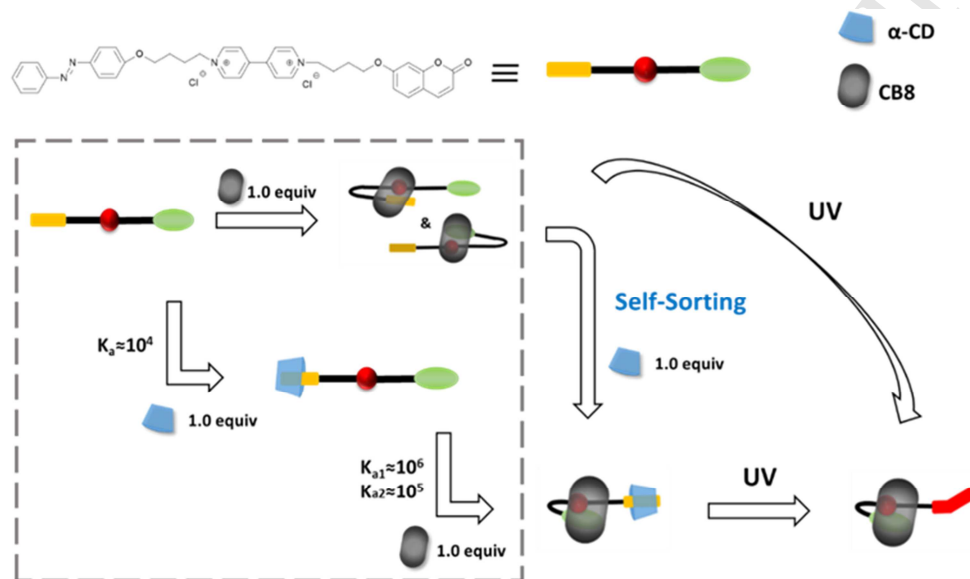
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## Graphical Abstract

## Light/Chemo Dual-controlled Supramolecular Assembly with Multi-modes Based on the Self-sorting Function

TOC:



Pseudorotaxane with multi-modes supramolecular assembly based on the host-guest interaction of CB[8] and monomer containing azobenzene and coumarin was designed. The assembly modes could be controlled by light through the isomerization of azobenzene. Furthermore, the multi-modes assembly also could be arranged by the introduction of  $\alpha$ -cyclodextrin through the self-sorting function. The photoisomerization behavior and the corresponding photoisomerization rate constant before and after assembly was investigated through UV-Vis absorption spectra. This supramolecular assembly could also be regarded as a molecular loop-lock due to the controllable conversion by  $\alpha$ -CD and light.

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