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4-Nitrobenzene thiourea self-assembly system and its transformation upon addition of Hg^{2+} ion: applications as sensor to fluoride ion

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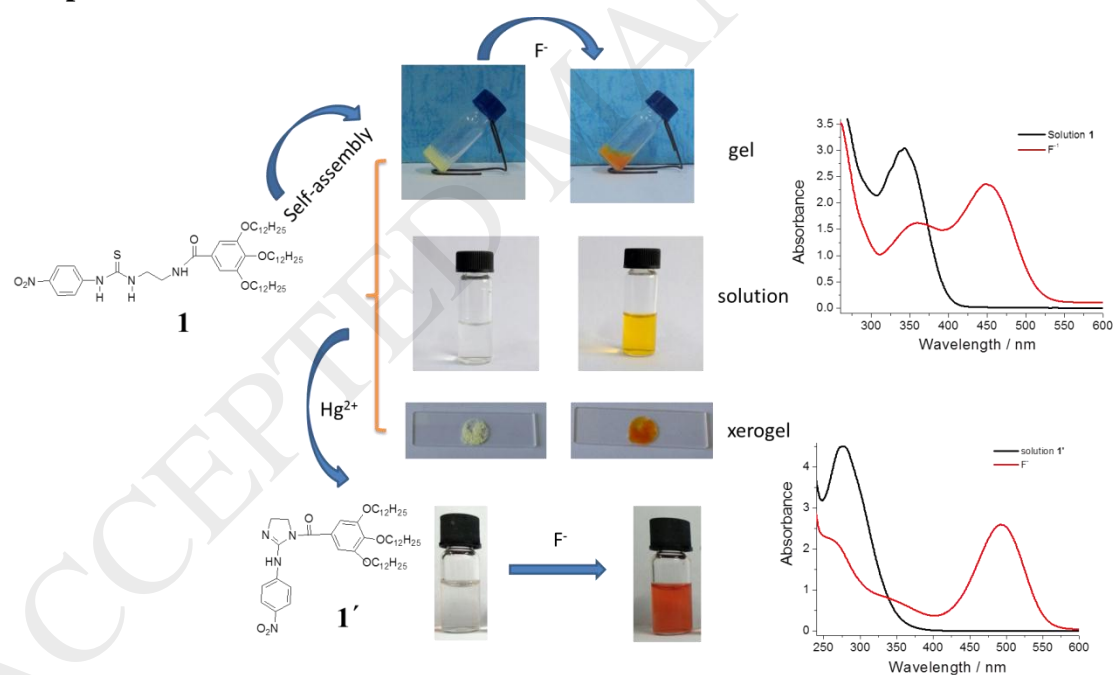
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Graphical abstract



Highlights

- The gelator **1** could respond to fluoride ion in three different states of solution, gel and xerogel.
- The gelator **1** could transform into its derivative **1'** under Hg^{2+} -inducing and also respond to fluoride ion through different recognition mode and color

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