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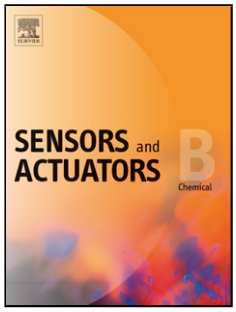

Title: Optical discrimination of fluoride and cyanide ions by coumarin-salicylidene based chromofluorescent probes in organic and aqueous medium

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ACCEPTED MANUSCRIPT

Optical discrimination of fluoride and cyanide ions by coumarin-salicylidene based chromofluorescent probes in organic and aqueous medium

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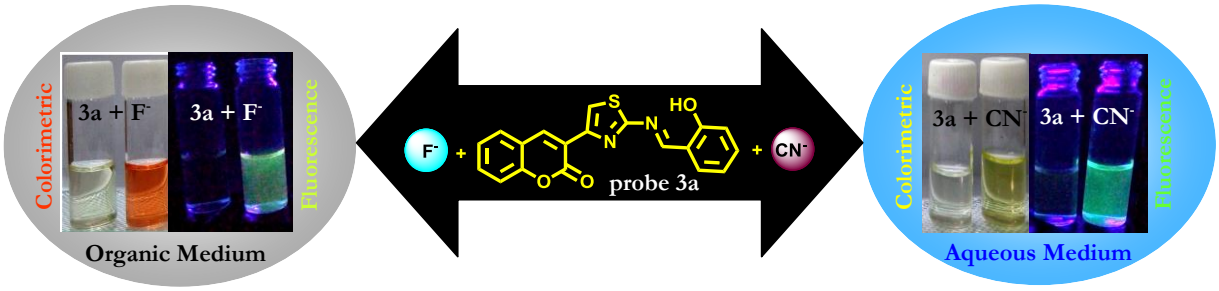
Graphical Abstract



Highlights

- Chromofluorescent coumarin functionalized salicylidene based probes were synthesized
- Probes detect fluoride ion in organic medium and cyanide ion in aqueous medium
- Detection of fluoride and cyanide ion was achieved both by visible and fluorescence colour change
- Detection limit of fluoride and cyanide ion were at submicromolar and micromolar level
- Cyanide ion can be detected in tap water sample at micromolar level *via* colour and fluorescence change.

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