Modification of photophysics of 3-hydroxyflavone in aqueous solutions of imidazolium-based room temperature ionic liquids: A comparison between micelle-forming and non micelle-forming ionic liquids

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Electronic Supplementary Information

Figure S1. Variation in the emission intensity of the tautomeric species of 3HF in the aqueous solution of [BMIM][C₈SO₄].
Figure S2. Variation in the emission spectra of 3HF with the addition of S₈S. The concentrations of S₈S are provided in the legends. $\lambda_{\text{exc}} = 345$ nm.

Figure S3. Variation in the emission intensity of the tautomeric species of 3HF in the aqueous solutions of S₈S.
Figure S4. Variation in the emission spectra of carbazole with the addition of S₈S at pH ~ 12. The concentrations of S₈S are provided in the legends. $\lambda_{\text{exc}} = 295$ nm.

Figure S5. Variation in the ratio of emission intensities of the neutral form to that of anionic form of carbazole in the aqueous solutions of S₈S (pH ~ 12).
Table S1. Time resolved fluorescence decay parameters of normal species of 3HF ($\lambda_{em}=410$ nm) at different concentrations of [BMIM][BF$_4$]. $\lambda_{exc}=370$ nm.

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<th>[BMIM][BF$_4$] (mM)</th>
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<th>$\tau_3$ (ns)</th>
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Table S2. Time resolved fluorescence decay parameters of normal species of 3HF ($\lambda_{em}=410$ nm) at different concentrations of [BMIM][C$_8$SO$_4$]. $\lambda_{exc}=370$ nm.

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### Table S3. Time resolved fluorescence decay parameters of tautomeric species of 3HF \((\lambda_{em}=550\ \text{nm})\) at different concentrations of [BMIM][BF\(_4\)]. \(\lambda_{exc}=370\ \text{nm}\).

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### Table S4. Time resolved fluorescence decay parameters of tautomeric species of 3HF \((\lambda_{em}=550\ \text{nm})\) at different concentrations of [BMIM][C\(_8\)SO\(_4\)]. \(\lambda_{exc}=370\ \text{nm}\).

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