*Electronic Supplementary Material*

**A simple chemosensor for ultrasensitive fluorescent “turn-on” detection of Fe3+ and alternant detection of CN-**

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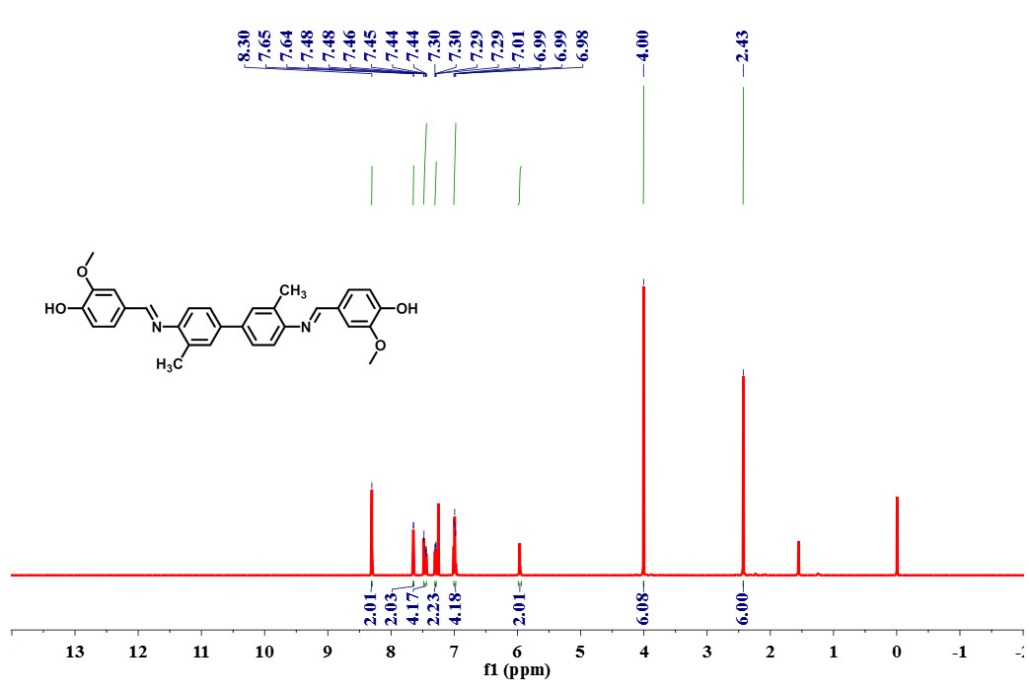
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[**Figure S14.** The SEM images of powder (a) **T**, (b) **T-Fe3+** and(c) **T-Fe3+**-**CN-**. 8](#_Toc21715819)

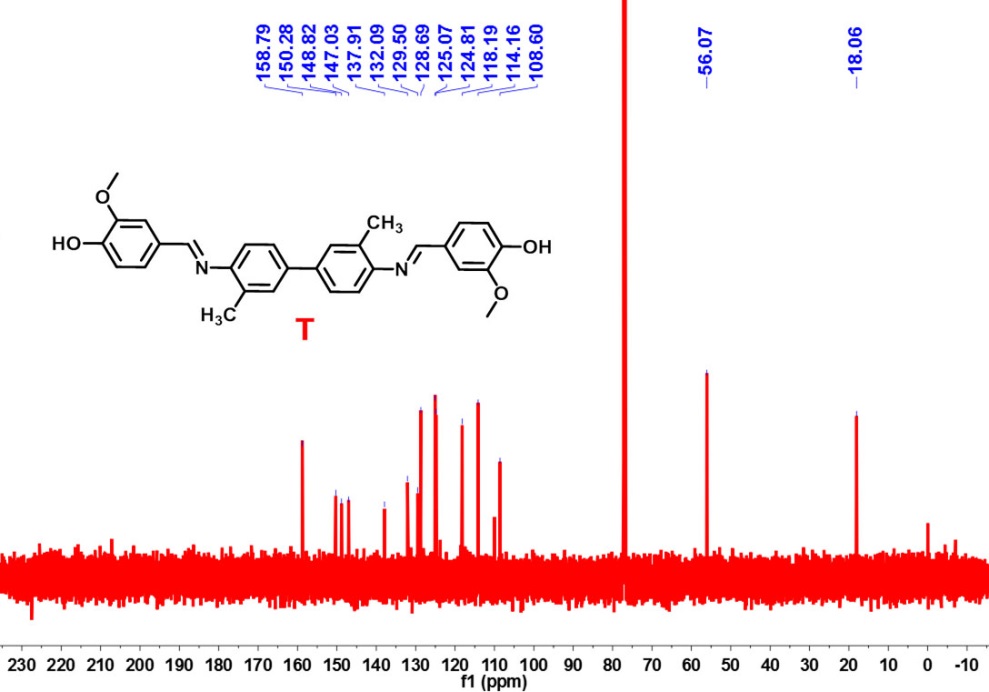
[**Figure S15.** Energy-minimized structure of chemosensor **T** and **T-Fe3+**. 8](#_Toc21715820)

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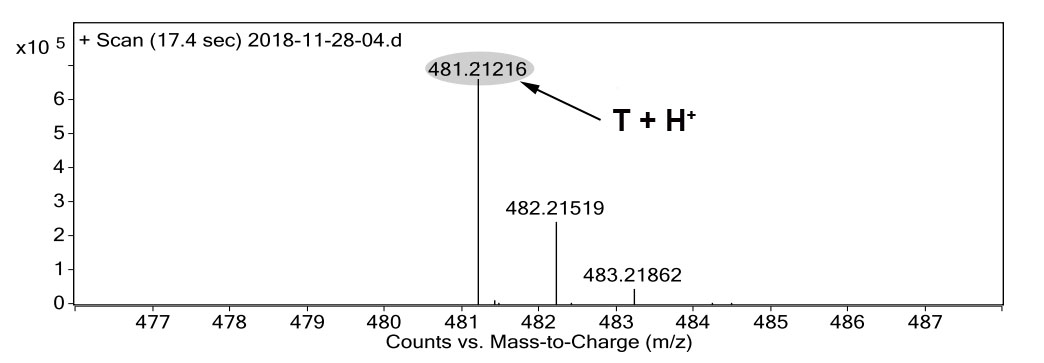
[**Figure S17.** Fluorescence emission spectra of **T** (2 × 10-4 M) in the presence of Fe3+ (0.24 equiv.) and CN- (9.8 equiv.) in DMSO/H2O (8 : 2, v/v) binary solution (*λ*ex = 390 nm). Inset: photograph from left to right shows the change in the fluorescence of only **T**, **T-Fe3+** and **T-Fe3+-CN-** in DMSO/H2O (8 : 2, v/v) binary solution under irradiation at UV lamp (365 nm). 9](#_Toc21715822)



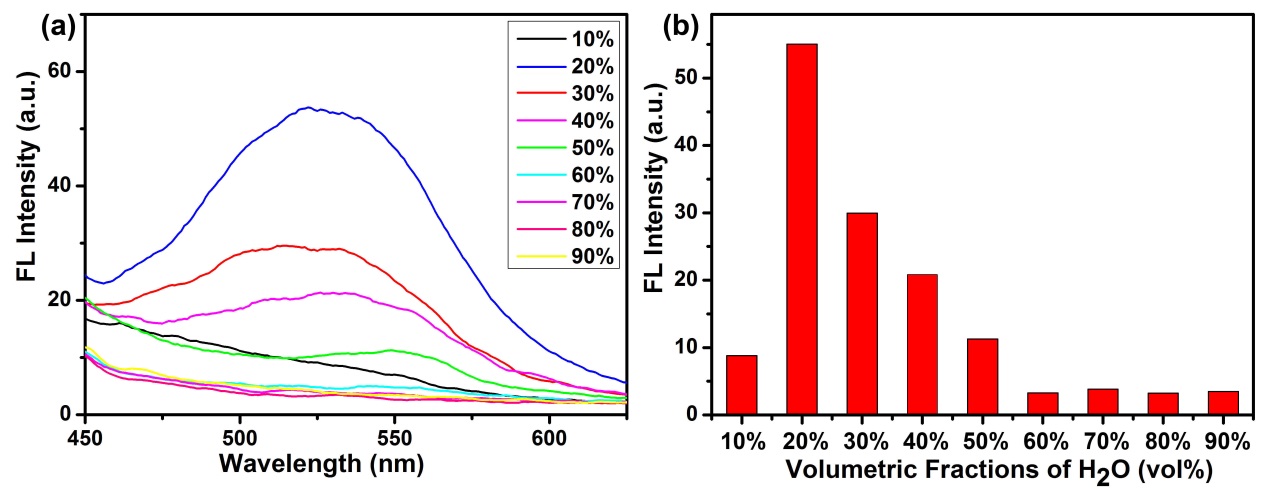
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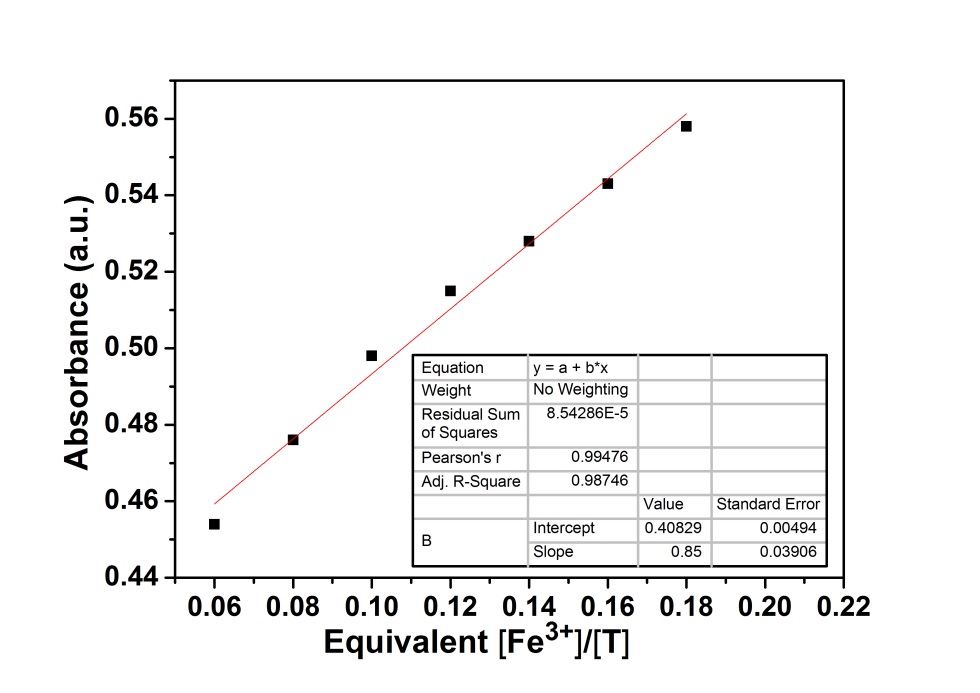
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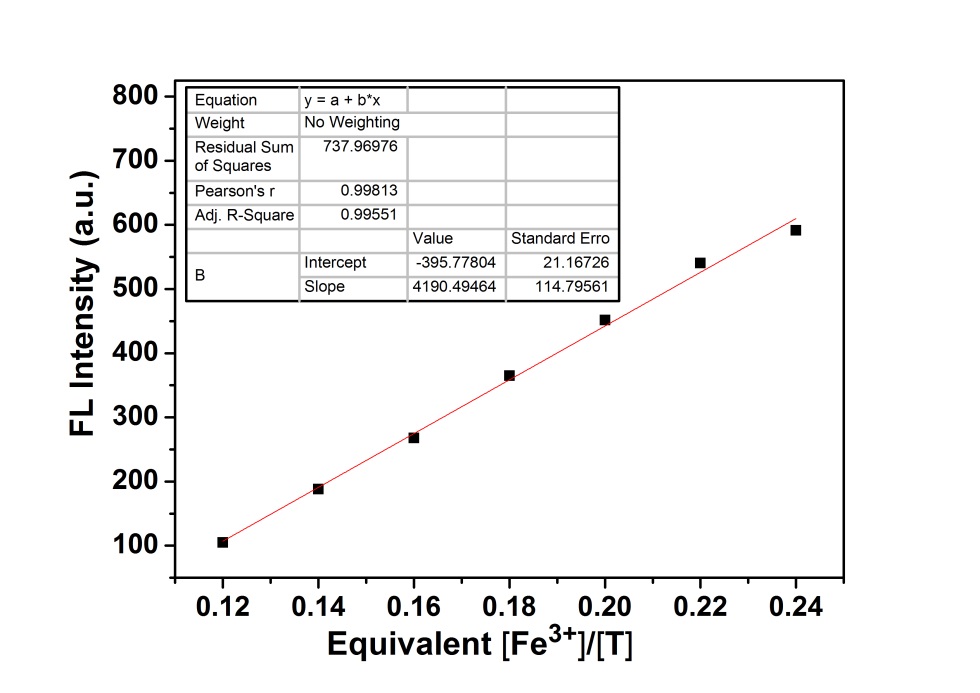
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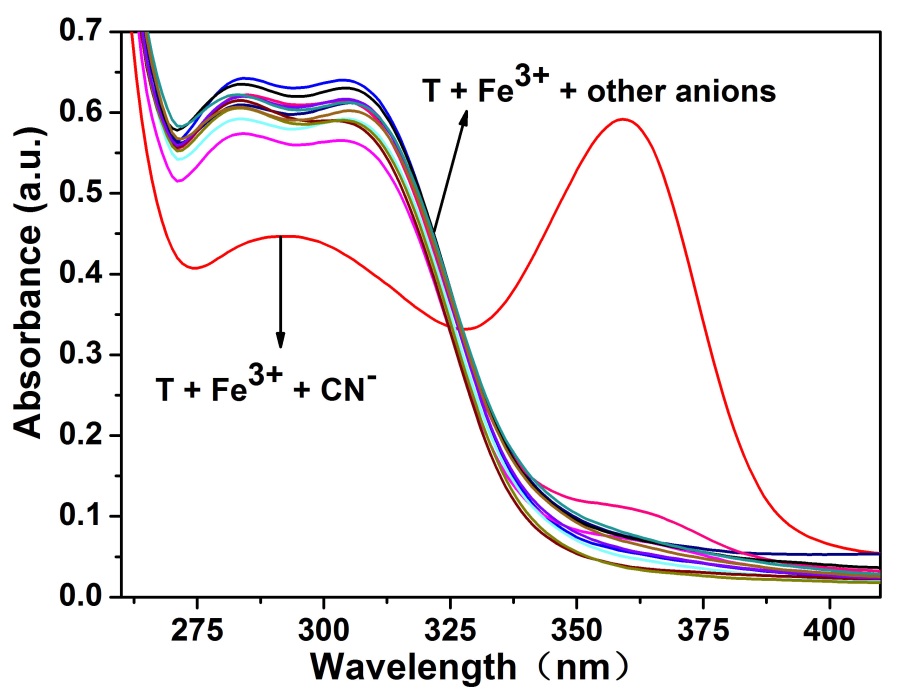
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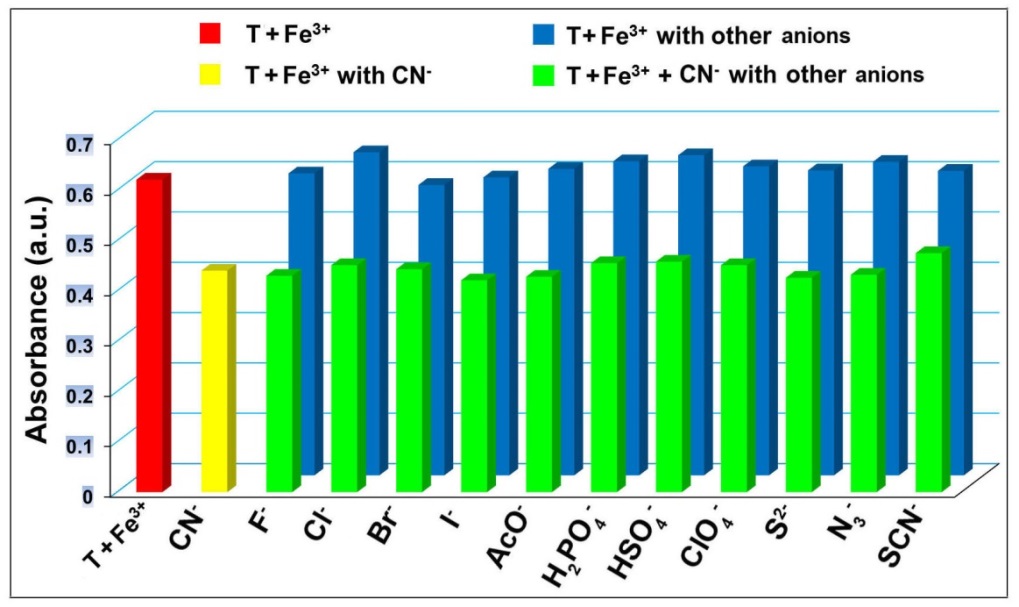
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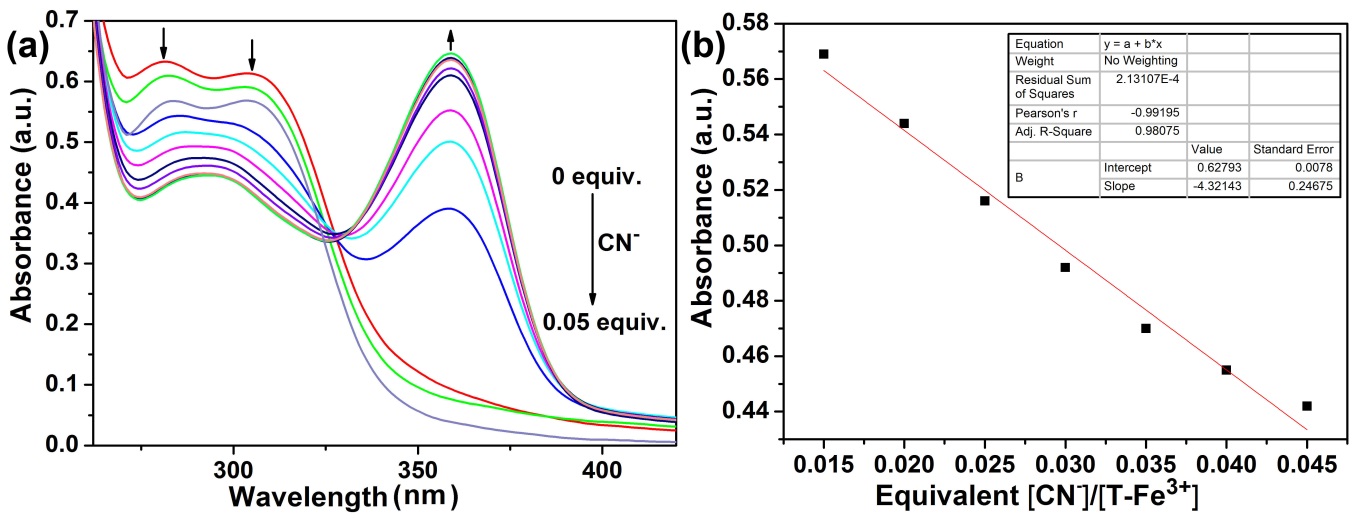
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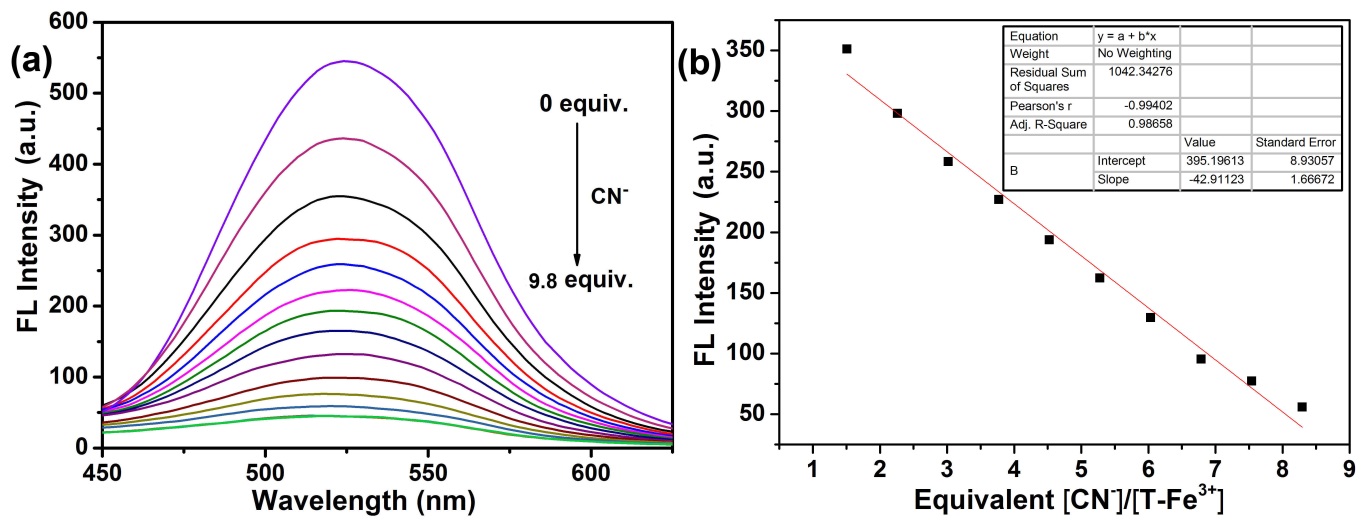
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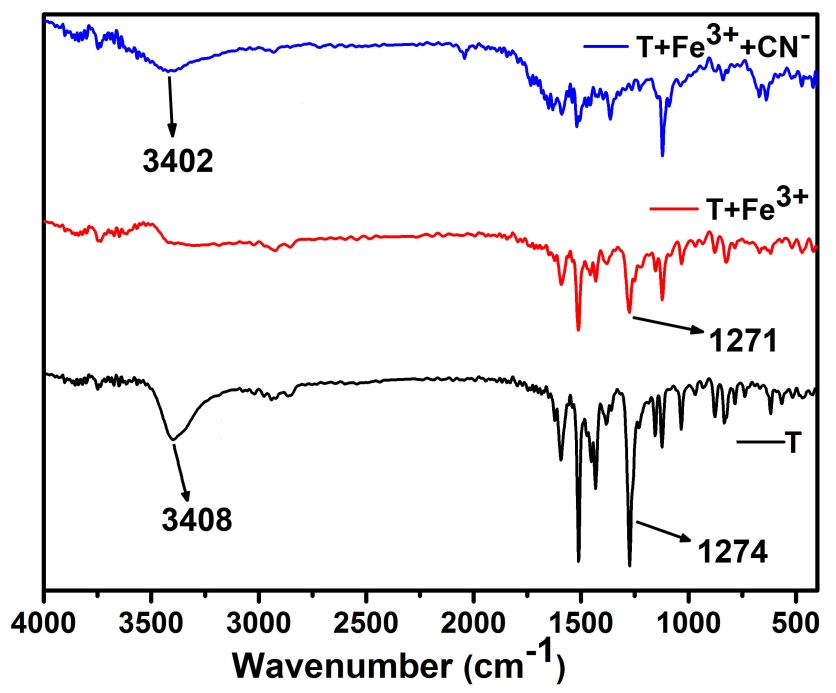
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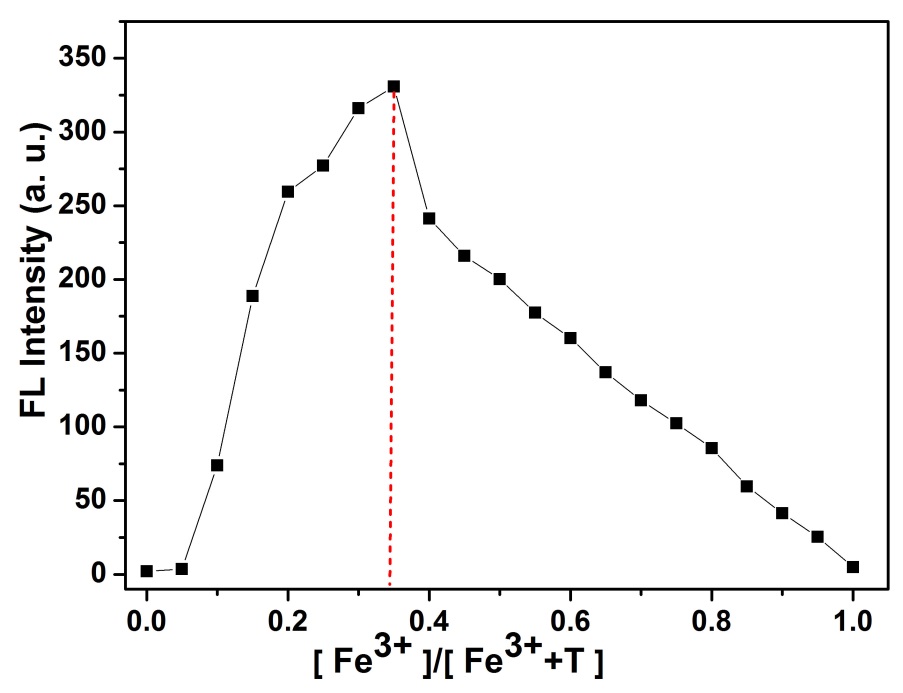
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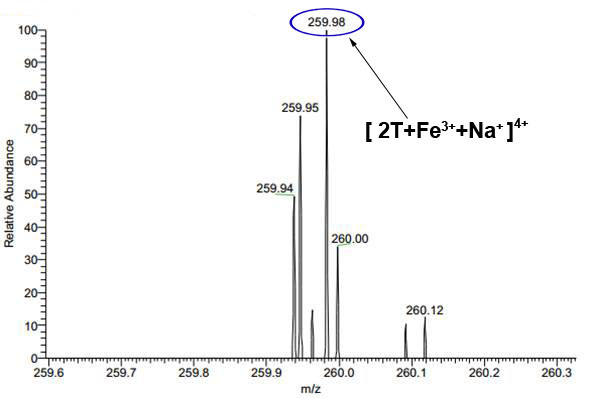
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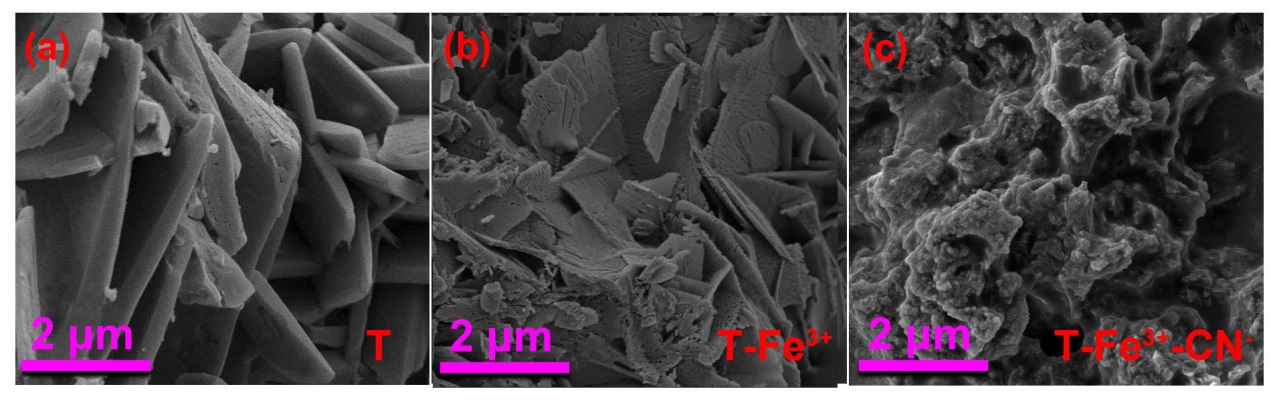
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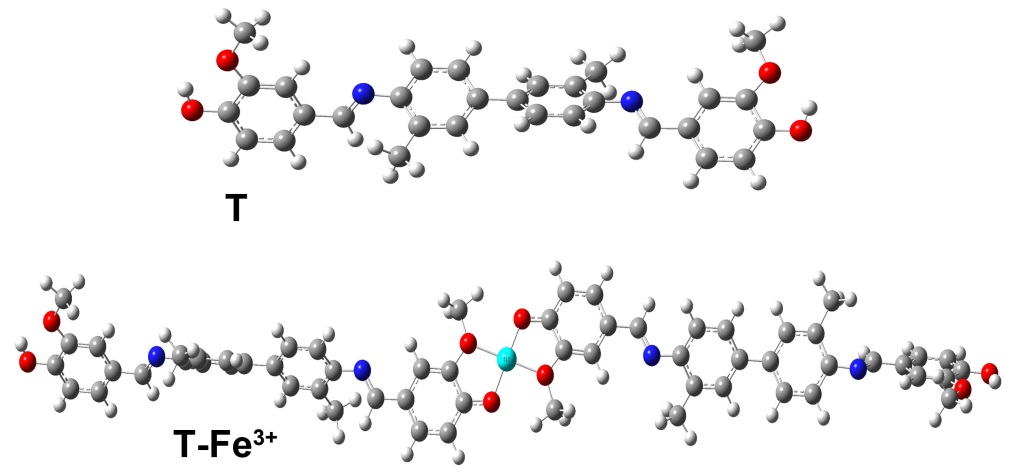
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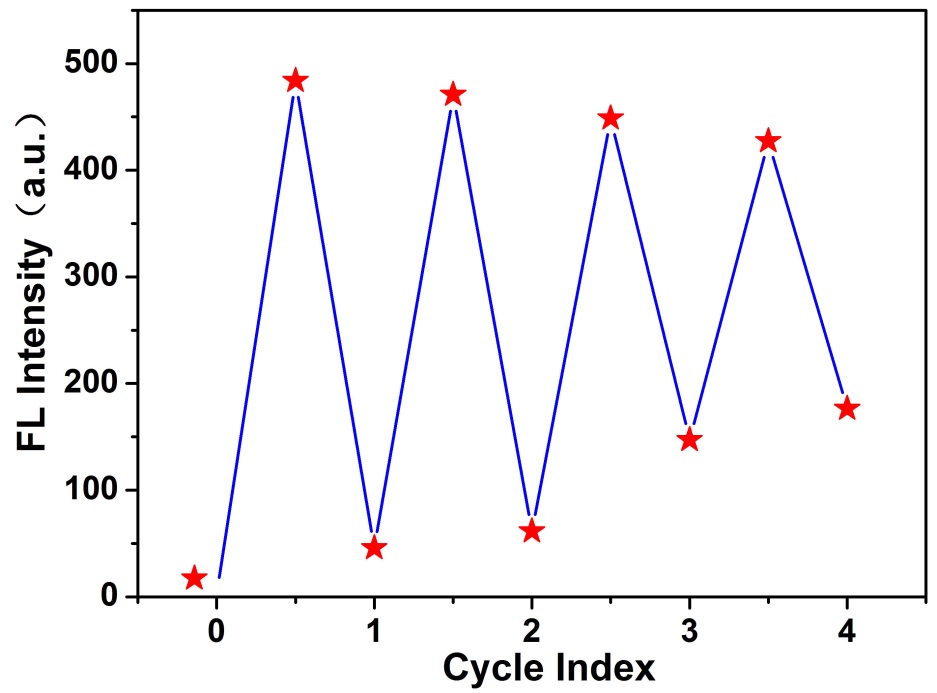
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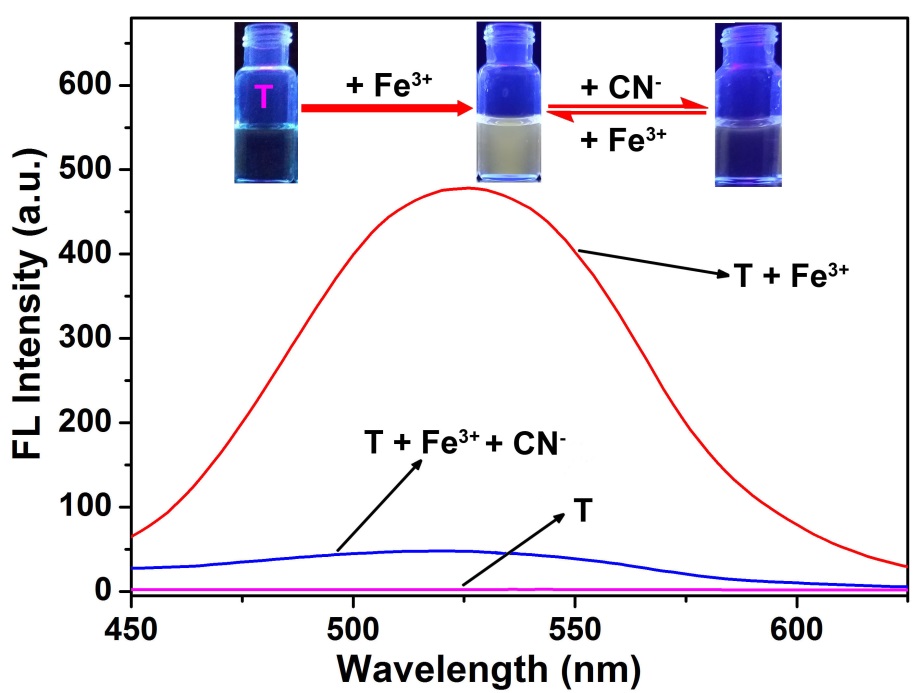
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