

Supplementary data

APTES Derived Polymer with Naphthalimide Pendant for the Fluorescent Sensing of Picric acid

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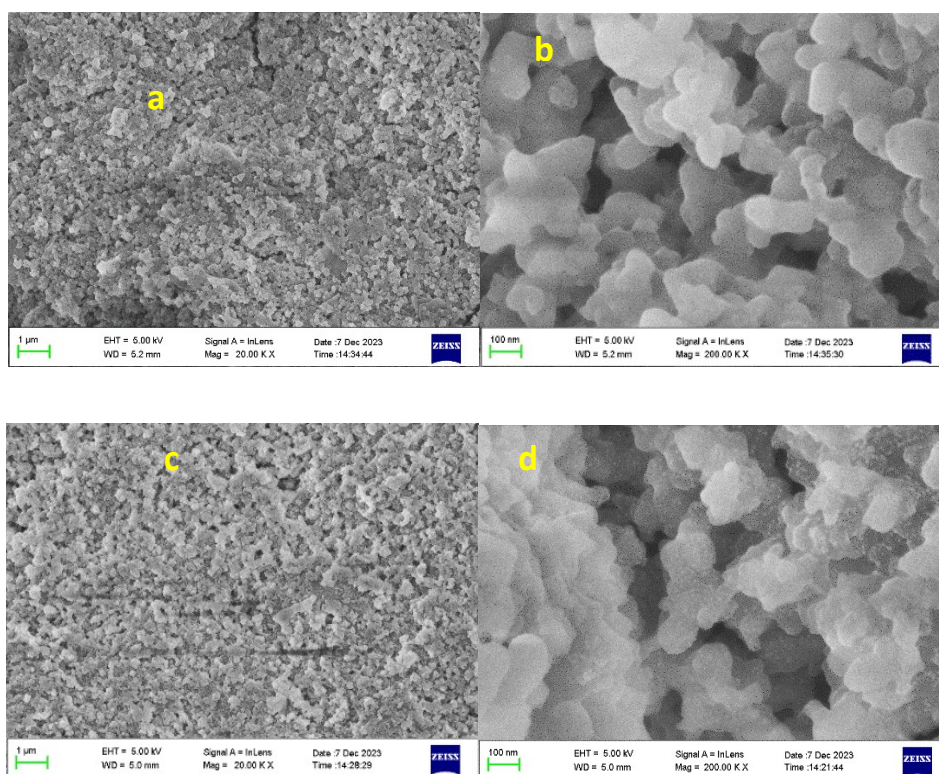
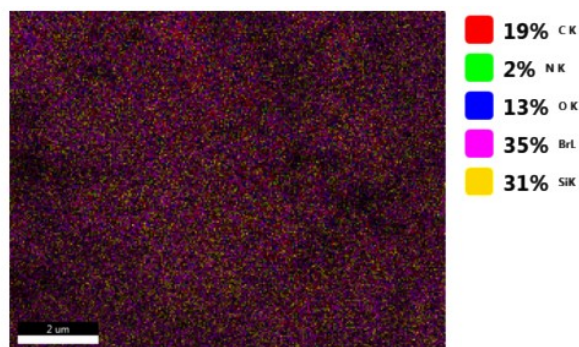
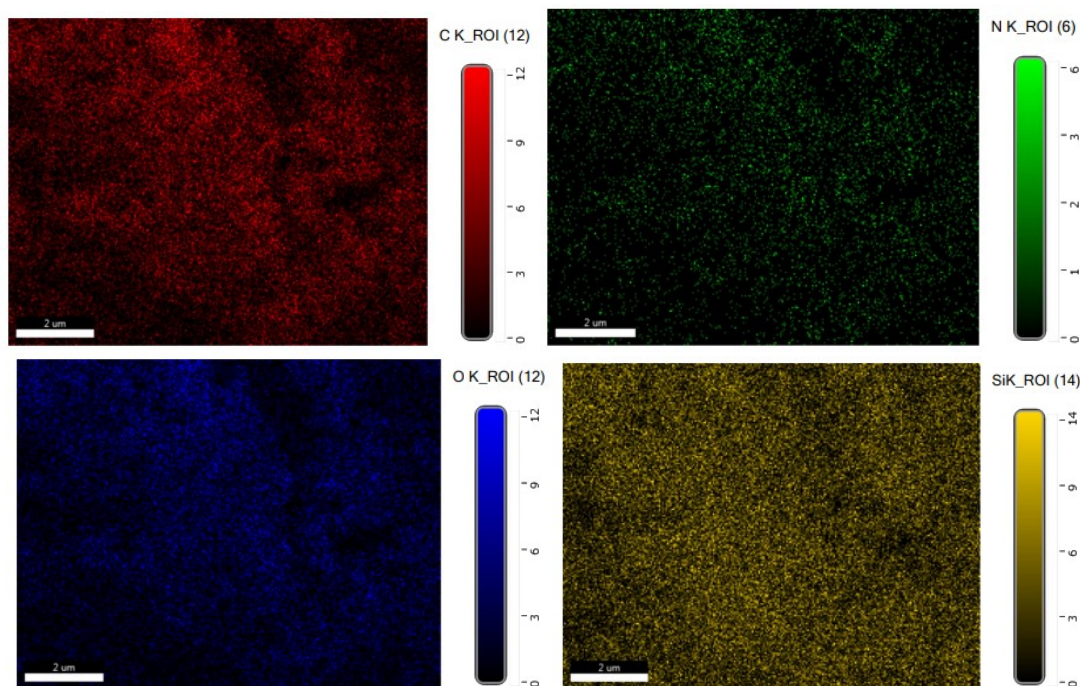


Fig S1. FE-SEM images a,b) APTES at different resolutions c,d) FESEM images of NA





Element	Weight %	Atomic %	Error %
C K	49.96	64.31	9.49
N K	5.95	6.57	16.13
O K	22.48	21.73	10.67
BrL	12.61	2.44	2.64
SiK	9	4.95	4.57

Fig. S2 a) EDX elemental mapping and elemental analysis NI@SiP

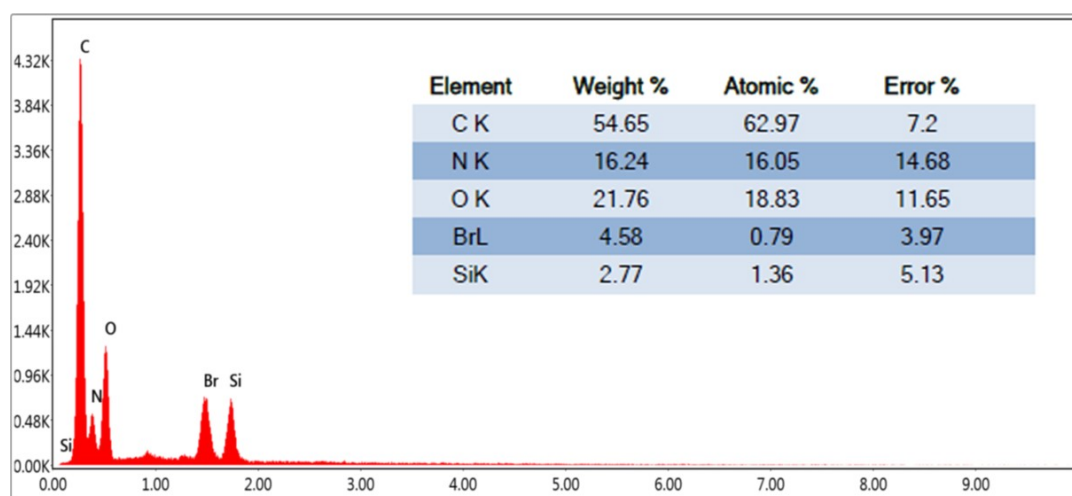


Fig S2 b) EDX elemental mapping and analysis of FNI@SiP

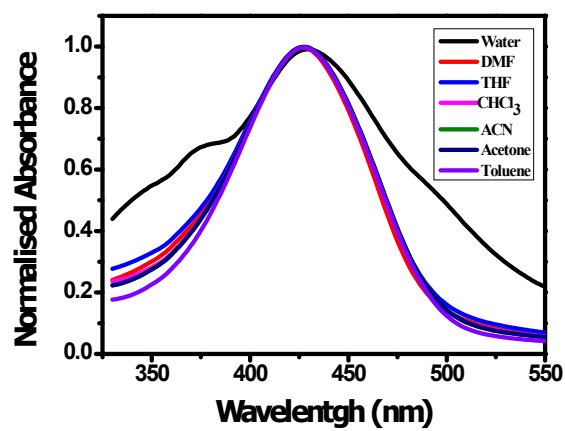


Fig. S3a) Normalized Absorbance spectra of FNI@SiP in various solvents

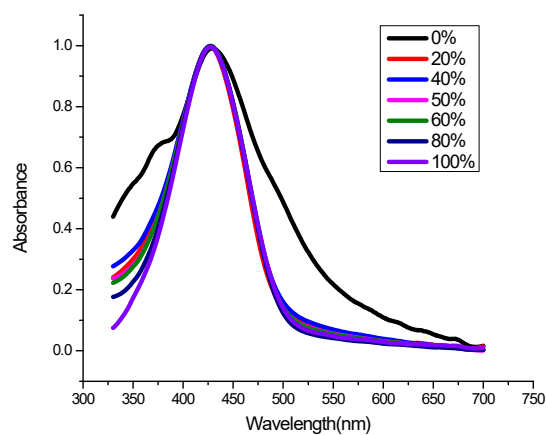


Fig. S3 b) Absorbance spectra in solvent mixtures (AN:DMF)

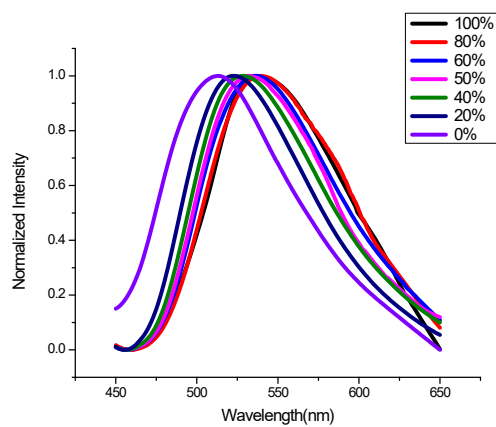


Fig S3 c) Normalized fluorescent intensity of probe in solvent mixtures(AN:DMF)

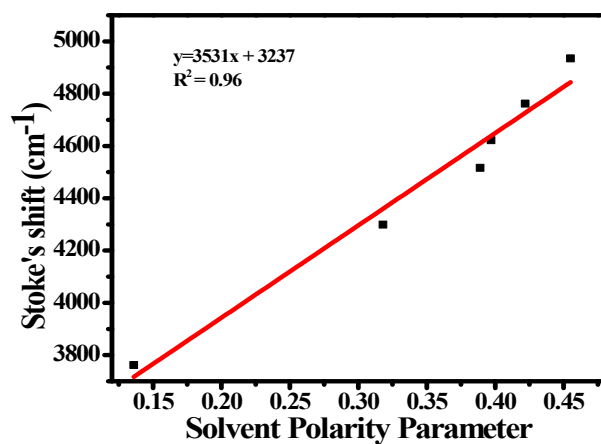


Fig. S4 Solvent polarity parameter vs. Stokes's shift

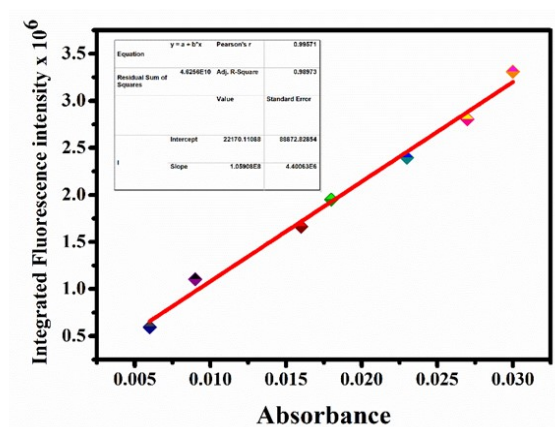


Fig. S5 Absorbance vs integrated fluorescence intensity

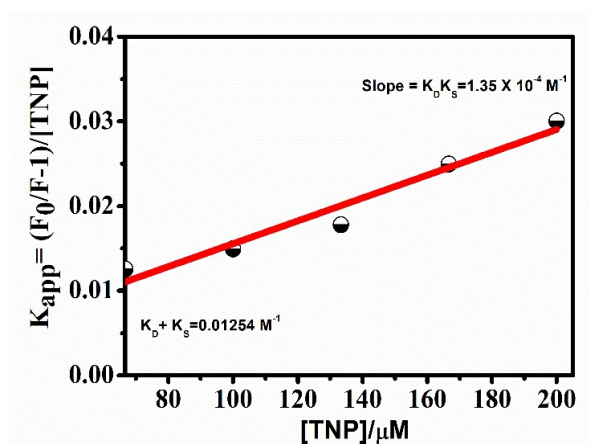


Fig. S6 Plot of apparent quenching constant vs concentration of TNP

References

1. Xavier, S., Narayanan, S., C.P., A., Sreekumar, K, *European PolymerJournal* (2019), doi: <https://doi.org/10.1016/j.eurpolymj.2019.01.071>
2. Baby, A.M., Balachandran, A., Kailasnath, M. Anju Maria Baby, Krishnapillai Sreekumar. *J Polym Res* 29, 507 (2022). <https://doi.org/10.1007/s10965-022-03347-1>