

Binding induced destruction of excimer in anthracene linked benzimidazole diamide: A case toward selective detection of organic sulphonic acids and metal ions

Kumares Ghosh^a, Tanushree Sen^a, Amarendra Patra^b

^aDepartment of Chemistry, university of kalyani, kalyani – 741235, India

Email: ghosh_k2003@yahoo.co.in

^bDepartment of Chemistry, University College of Science, 92 A.P.C Road, Kolkata 700 009, India

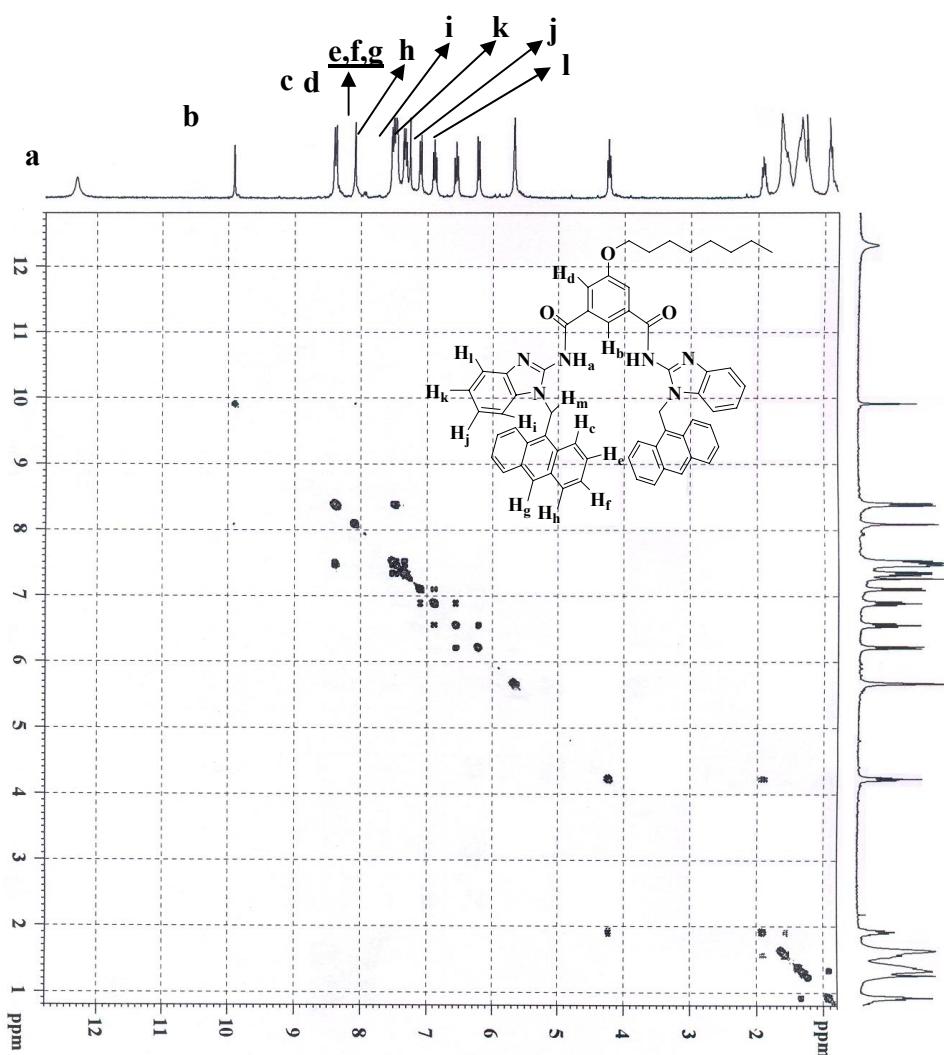


Fig. S1 COSY spectrum (300 MHz) of **1** in CDCl_3 .

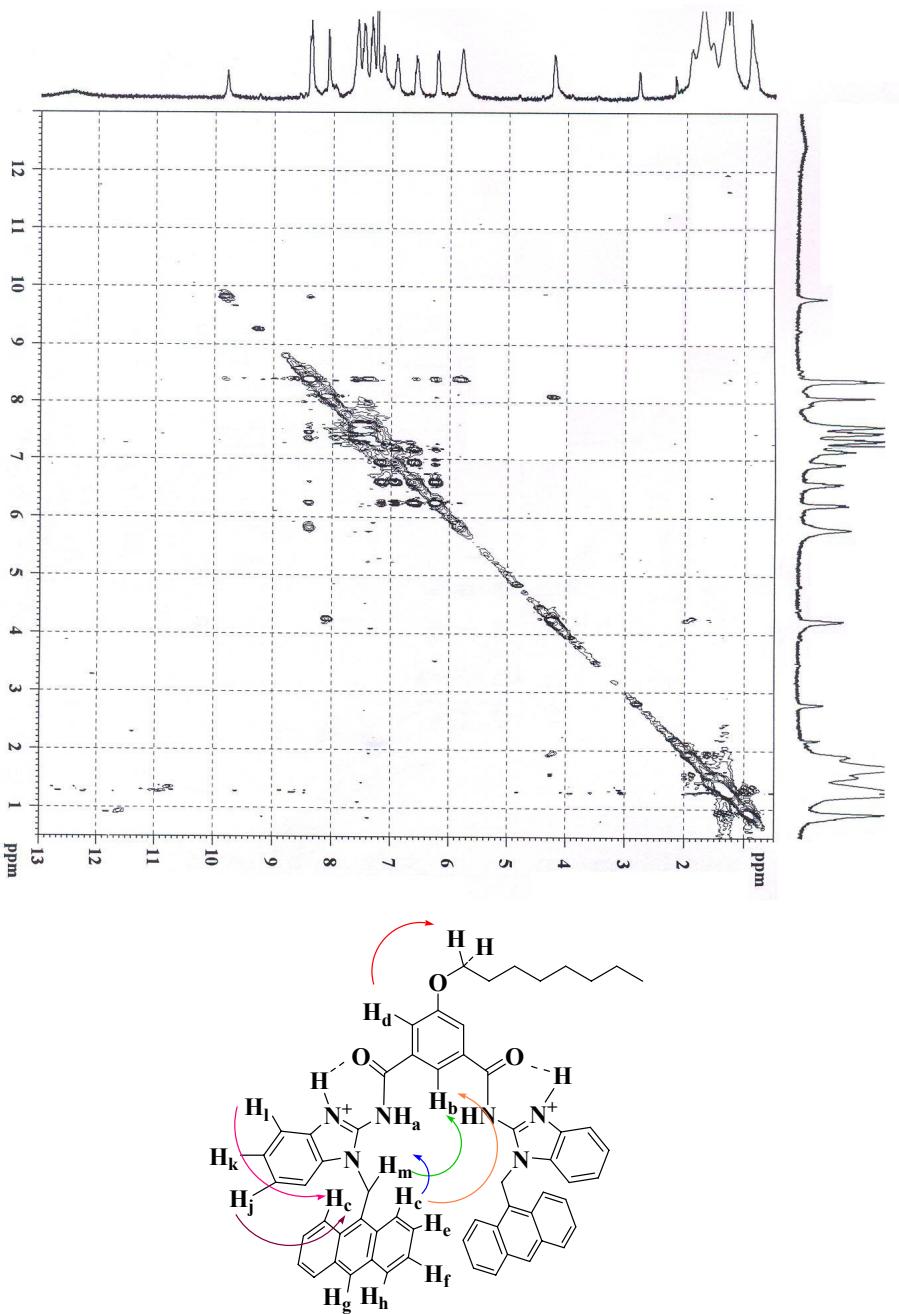


Fig. S2 ROESY spectrum (300 MHz) of **1** in presence of equivalent amount of CH₃SO₃H in CDCl₃.

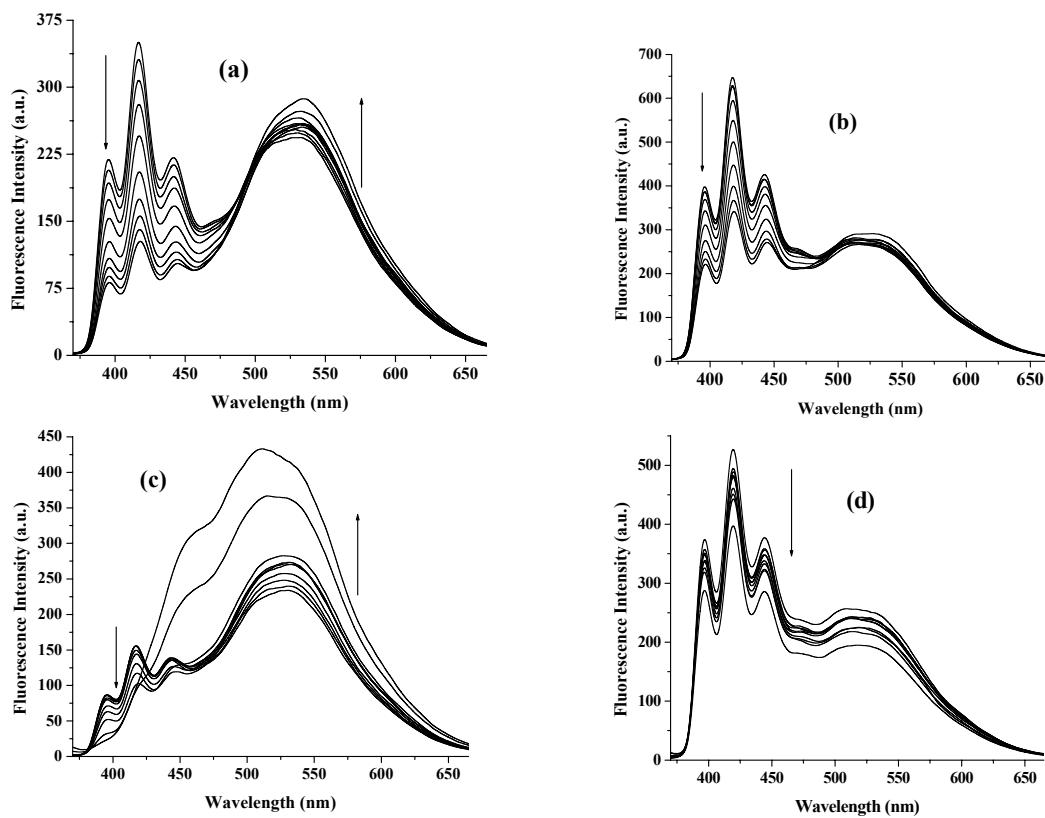


Fig. S3 Effect of addition of water on the emission spectra of **1** in different solvents (a) CH_3CN , (b) CHCl_3 , (c) CH_3OH and (d) THF .

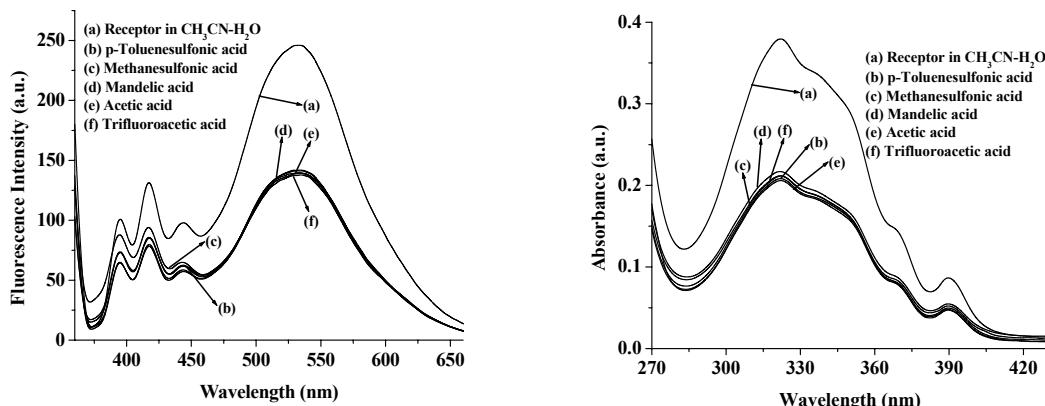


Fig. S4 Emission spectra of **1** ($c = 9.95 \times 10^{-6} \text{ M}$) in aq. CH_3CN upon addition of 40 equivalent amounts of the acids ($\square_{\text{ex}} = 350 \text{ nm}$).

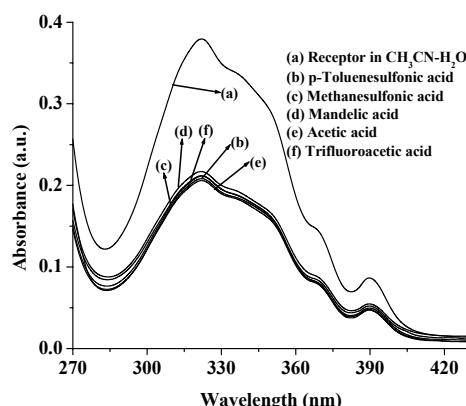


Fig. S5 Absorption spectra of **1** ($c = 9.95 \times 10^{-6} \text{ M}$) in aq. CH_3CN upon addition of 40 equivalent amounts of the acids ($\square_{\text{ex}} = 350 \text{ nm}$).

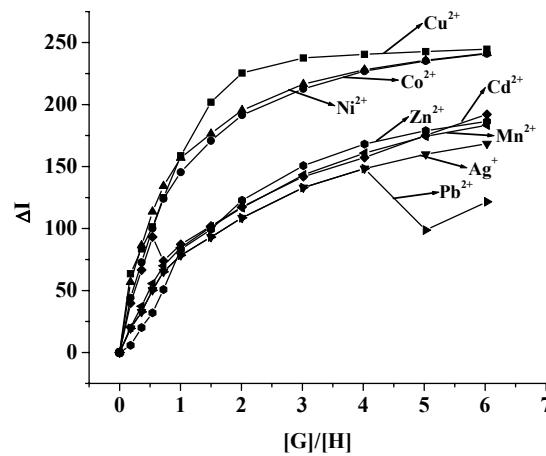


Fig. S6 Stoichiometry plots of receptor 1 with metal ions in CH_3CN .