

Electronic Supplementary Information

Two-component organogel for visually detecting nitrite anion

Qian Xia,^a Yueyuan Mao,^a Junchen Wu,^b Tianming Shu,^a and Tao Yi*^a

^a*Department of Chemistry and Collaborative Innovation Center of Chemistry for Energy Materials, Fudan University, 220 Handan Road, Shanghai 200433;* ^b*Key Laboratory for Advanced Materials and Institute of Fine Chemicals, East China University of Science and Technology, 130 Meilong Road, Shanghai 200237, P. R. China*

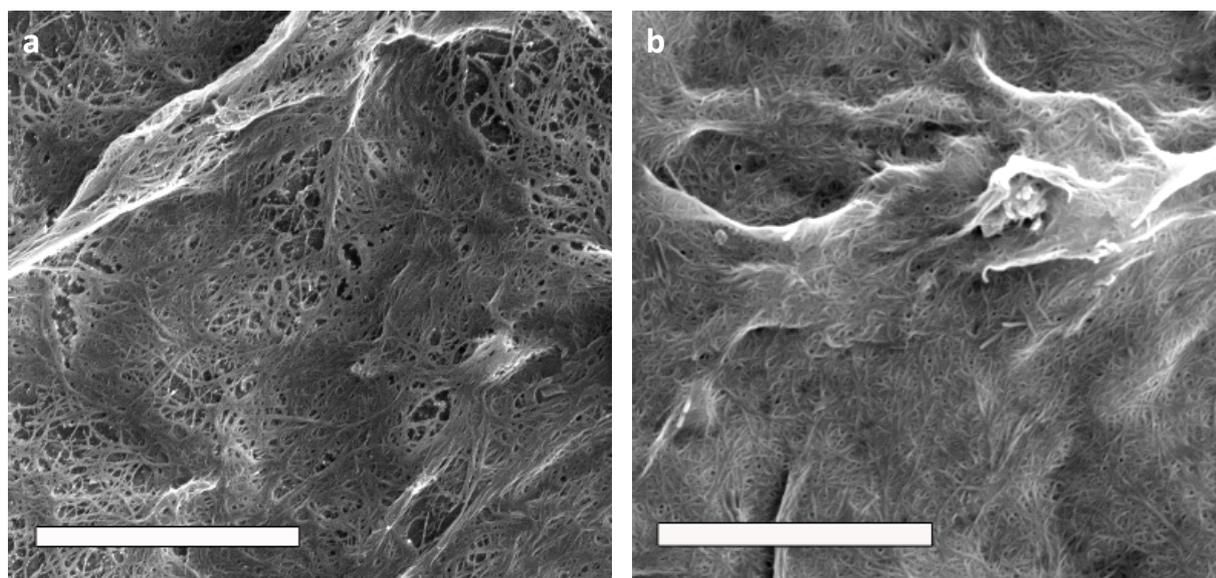


Fig. S1 SEM images of the xerogels of **2**+EDA (a) and **2**+HDA (b) in octanol, scale bars for a and b are 5 and 10 μm , respectively.

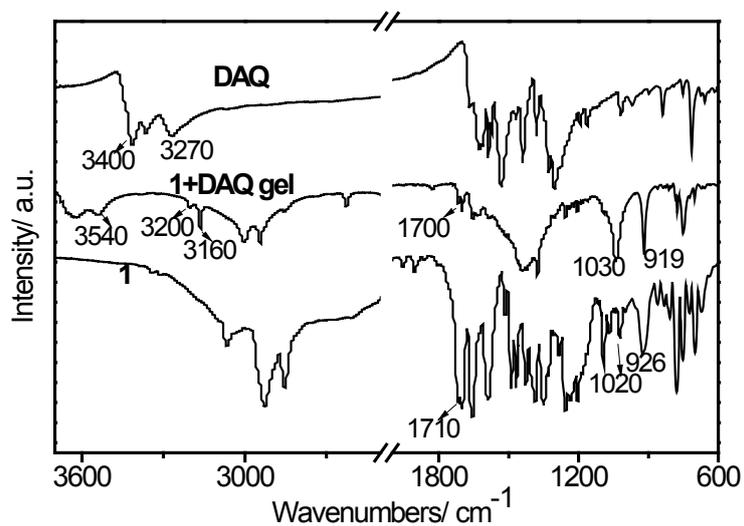


Fig. S2 IR spectra of powder **1**, DAQ and gel **1**+DAQ formed in CH₃CN.

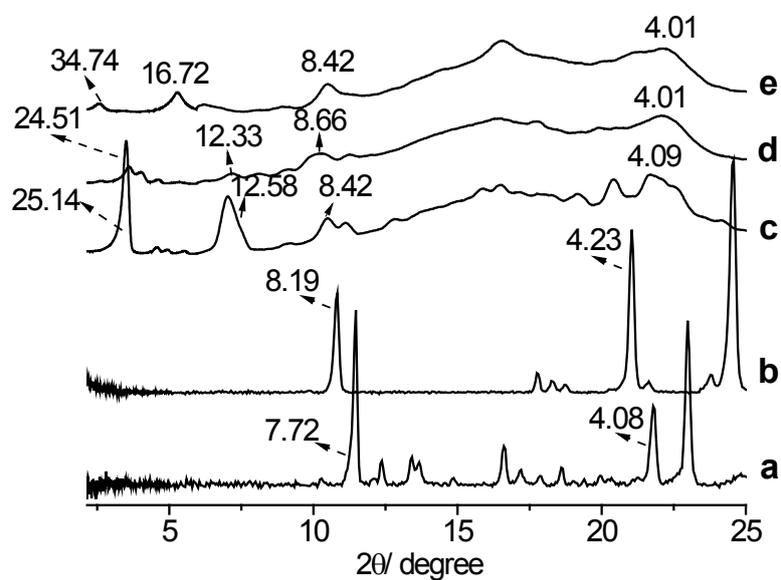


Fig. S3 XRD spectra of NBDA (a), HAD (b) and the corresponding xerogels of **1**+NBDA (c), **1**+HDA (d) and **1**+EDA (e). Numbers marked on the peaks of XRD stands for value of distance (Å).

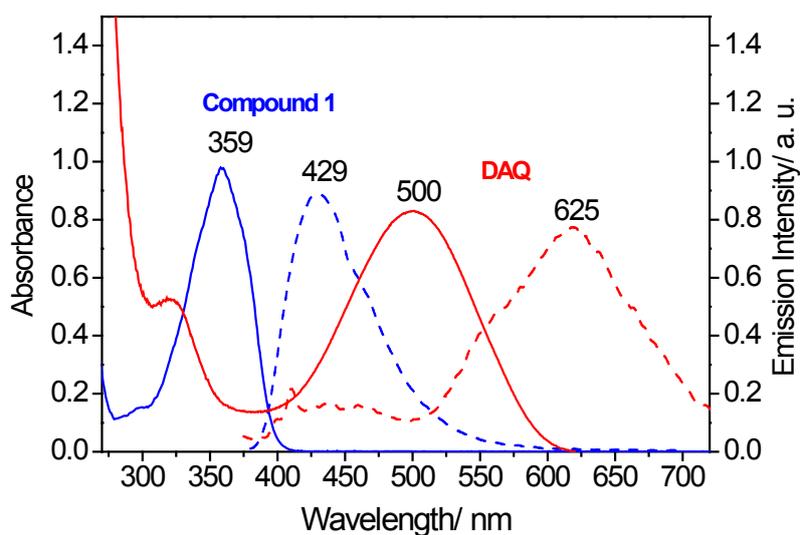


Fig. S4 Absorption (solid line) and emission (dash line) spectra of compound **1** (blue) and DAQ (red) in CH₃CN. Concentration = 1×10^{-5} M.

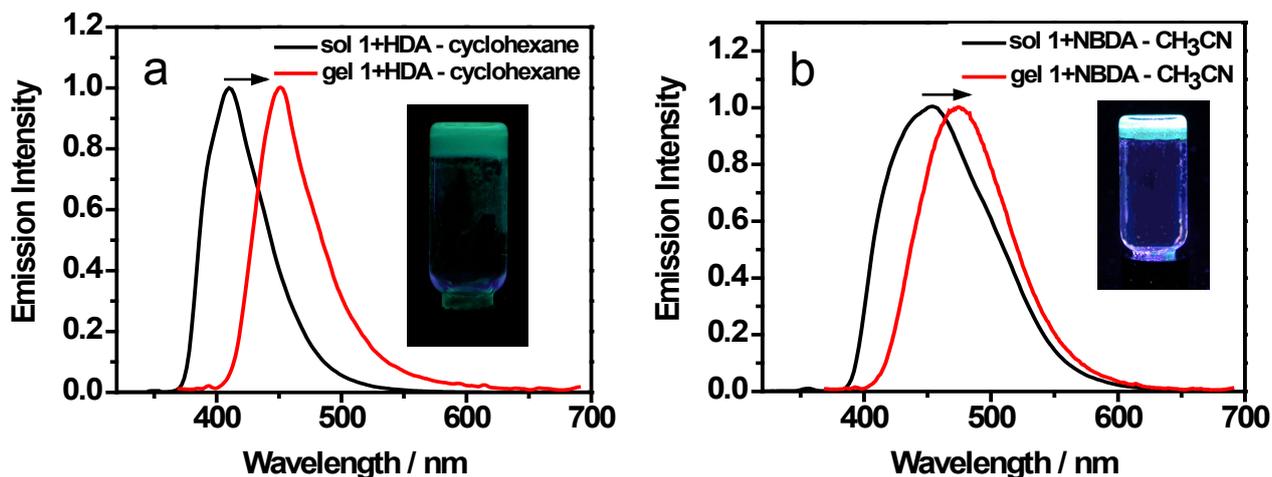


Fig. S5 Emission spectra of the sol and gel of (a) **1**+HDA in cyclohexane and (b) **1**+NBDA in acetonitrile. Insets are pictures of gels in 365 UV-light. Molar ratio of acid: amine = 2: 1, the concentration for sols are 5×10^{-4} M and for gels are 25 mg/mL.

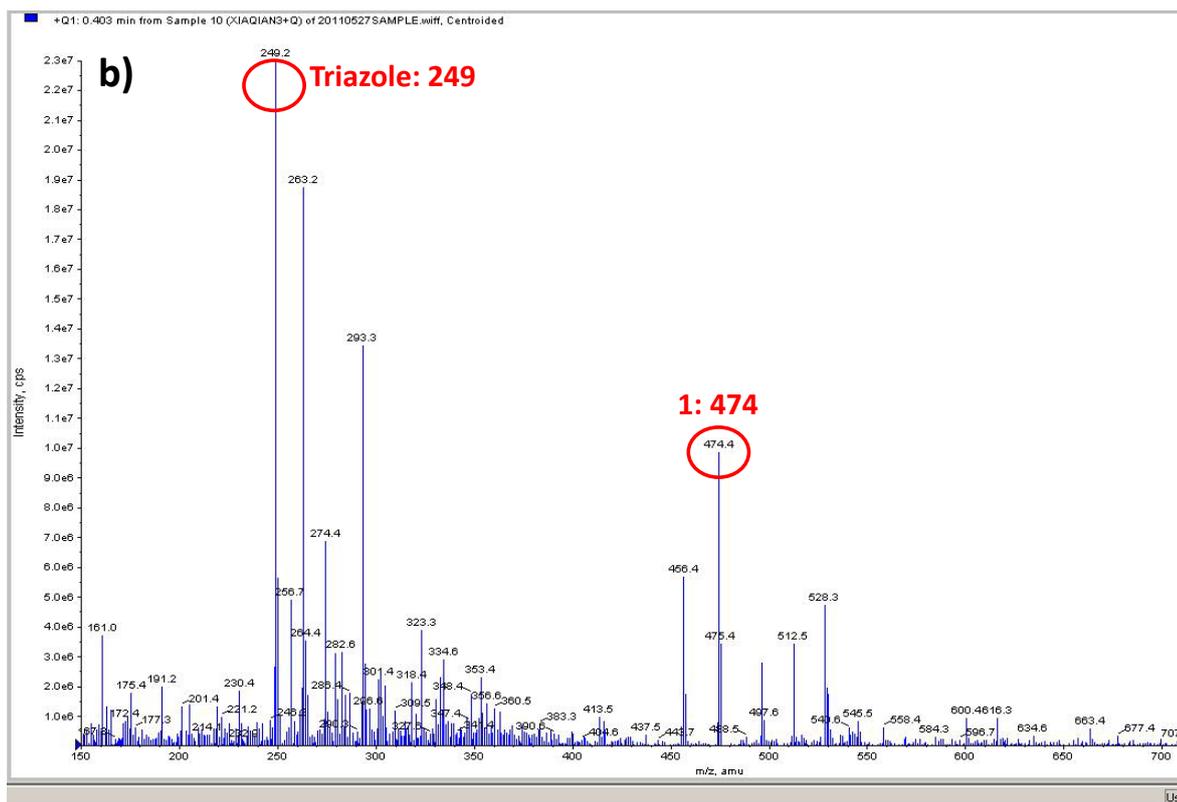
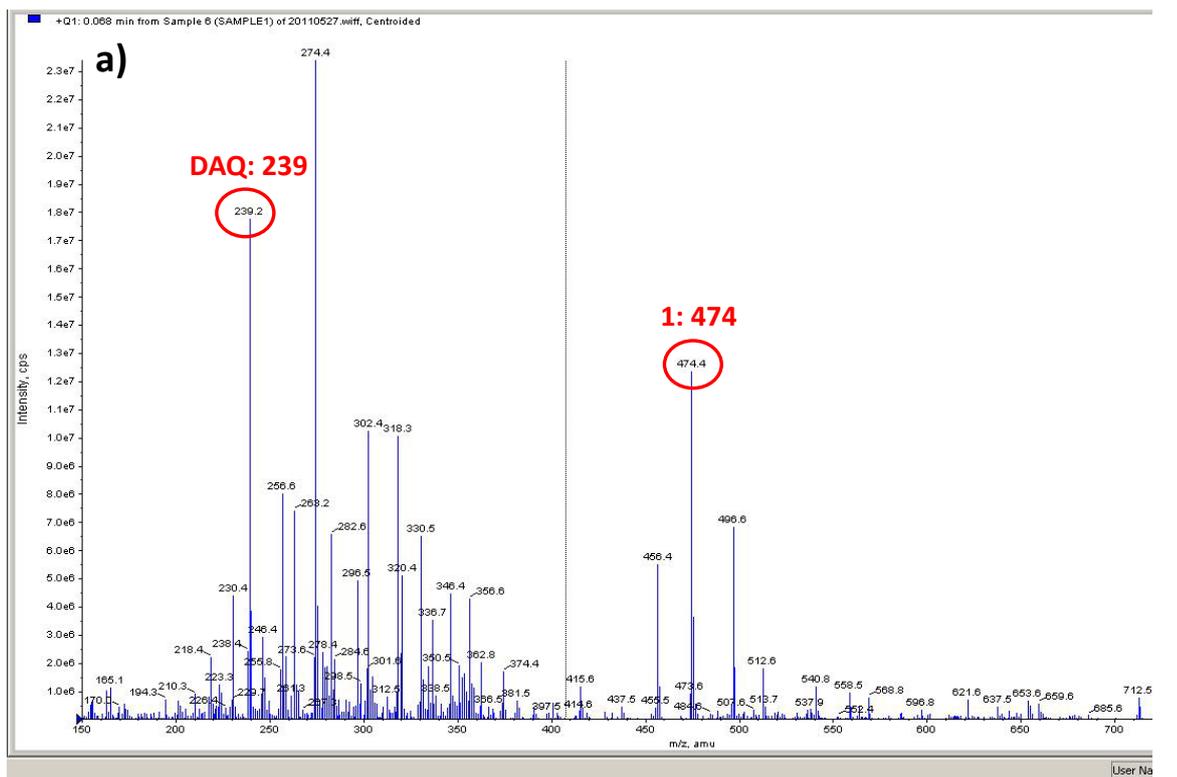


Fig. S6 LC-MS results of the THF solutions of mixture of gel **1**+DAQ treated without (a) and with (b) NO_2^- .

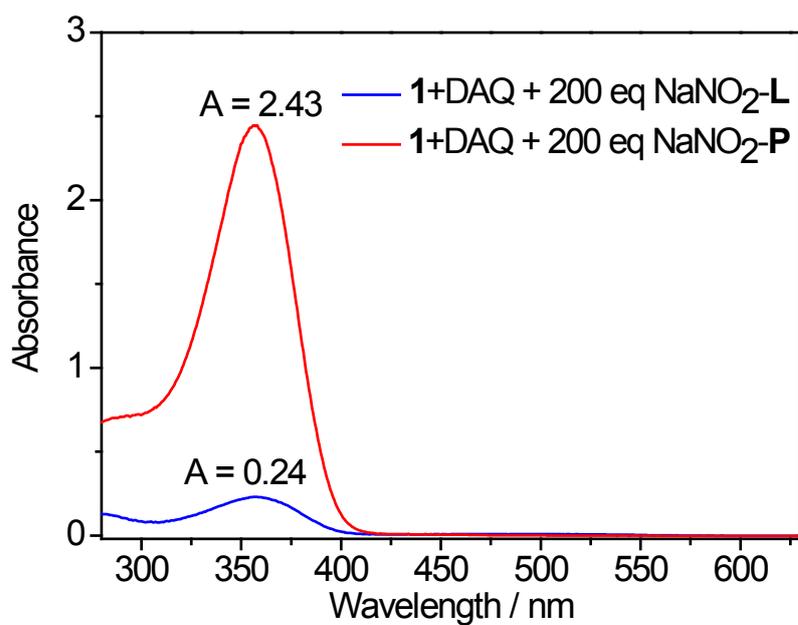


Fig. S7 The absorption spectra of the liquid part and solid part of gel **1**+DAQ treated with 200 equivalences of NaNO₂ aqueous solution, from which the difference of the absorbance can be calculated.