

Fig.S1: Spectra of the different sensors, (A) sensor 1, (B) sensor 2, (C) sensor 3, and sensor 4 (D); at different concentrations; Black: buffer, red: 10⁻⁵M, blue: 10⁻⁴M, pink:10⁻³ M, green: 10⁻² M, orange: 10⁻¹ M

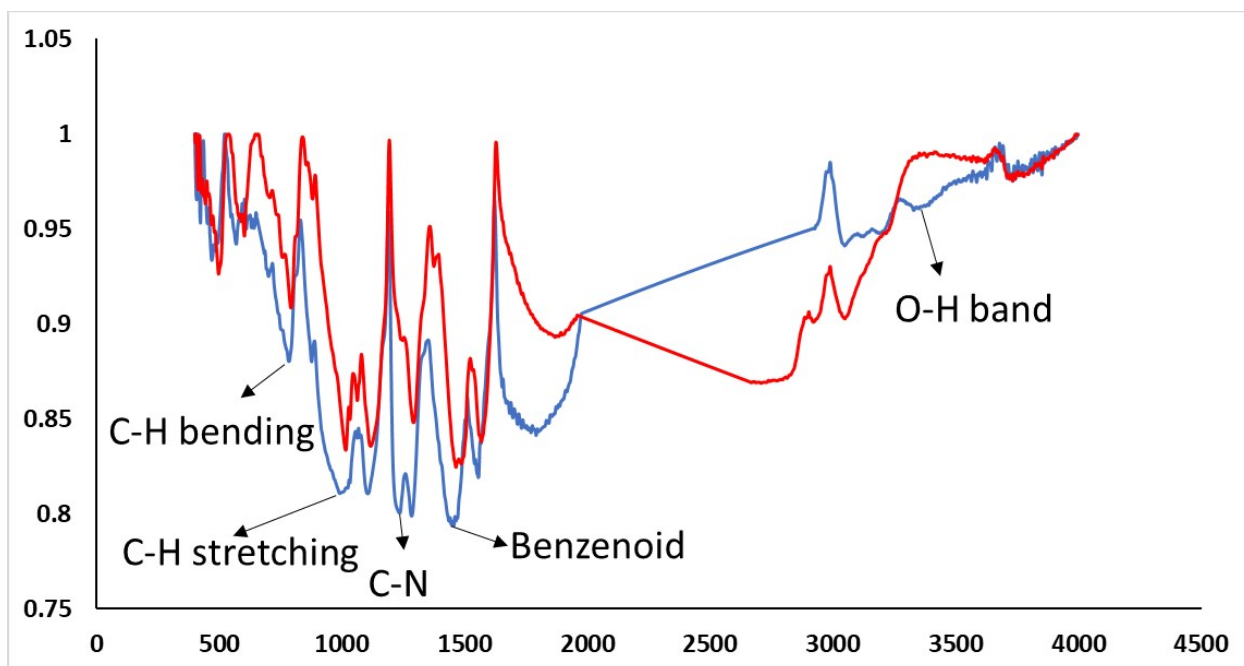


Fig. S2: FTIR of sensor 4 before (blue), and after (red) interaction with sulfite

Table S1: that show ratio between absorbance of sulfite to that of interfering ion at different concentration.

Conc., M	iodide	sulfate	salicylate	bromide	nitrate	sulphide
10^{-5}	1.865209	2.211663	2.295964	2.011788	2.579345	2.42654
10^{-4}	1.779817	2.117904	2.165179	1.916996	2.455696	2.480818
10^{-3}	1.843011	1.917226	1.979215	1.756148	2.137157	2.208763
10^{-2}	1.250923	1.641646	1.669951	1.665848	1.629808	1.89916