

Selective Sensing of nitric oxide by 9,10-phenanthroquinone-pyridoxal based fluorophore

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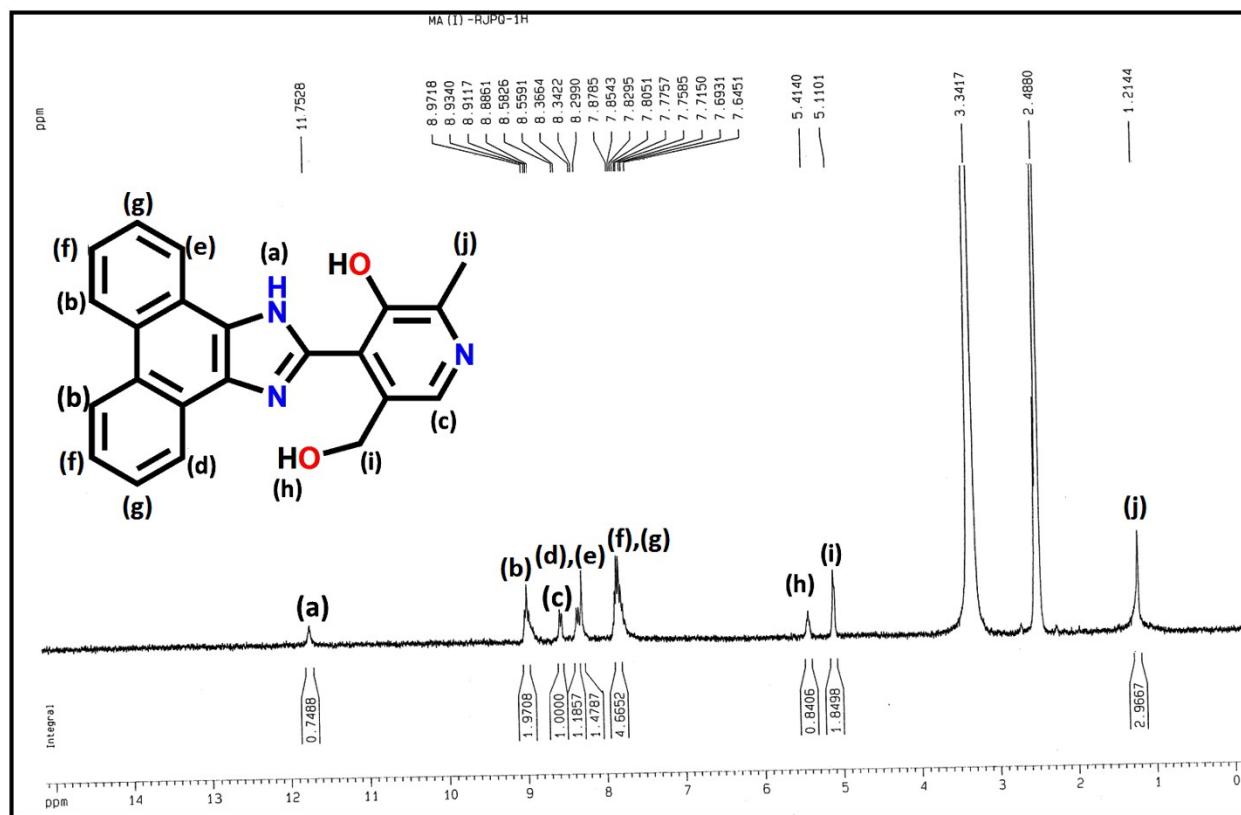


Fig.S1. ¹H-NMR spectrum of PQQY in DMSO-d₆.

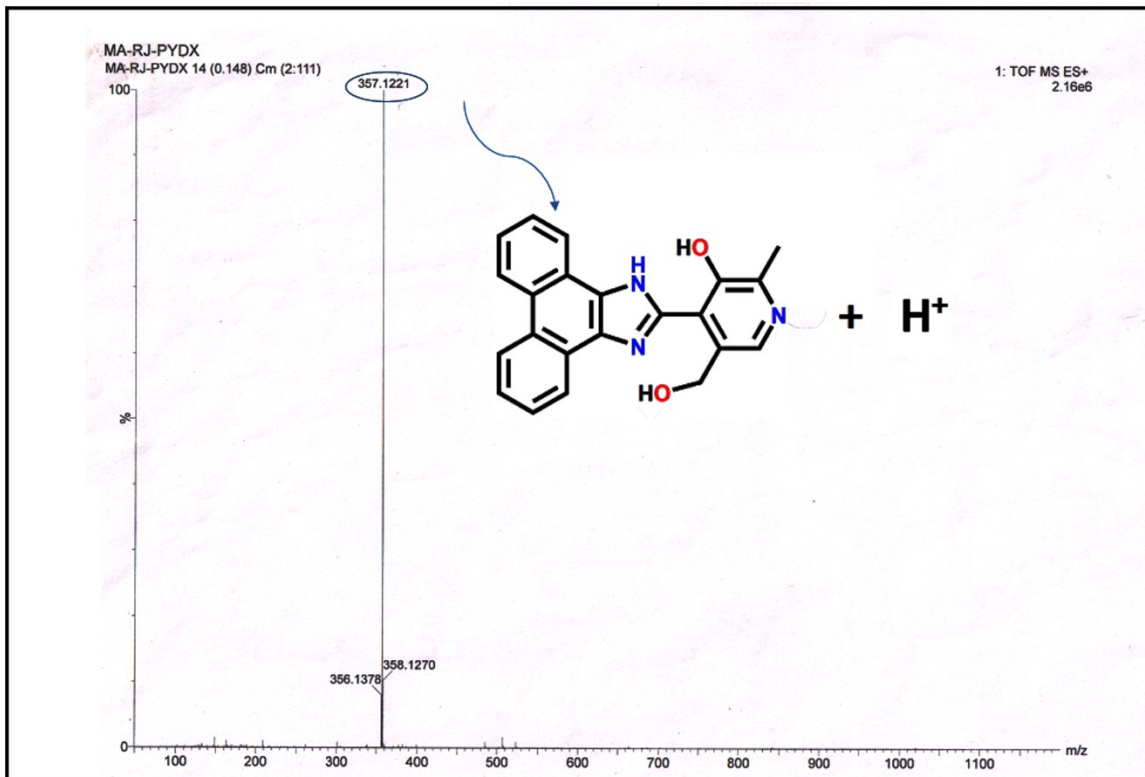


Fig.S2. Mass spectrum of PQPY in MeCN.

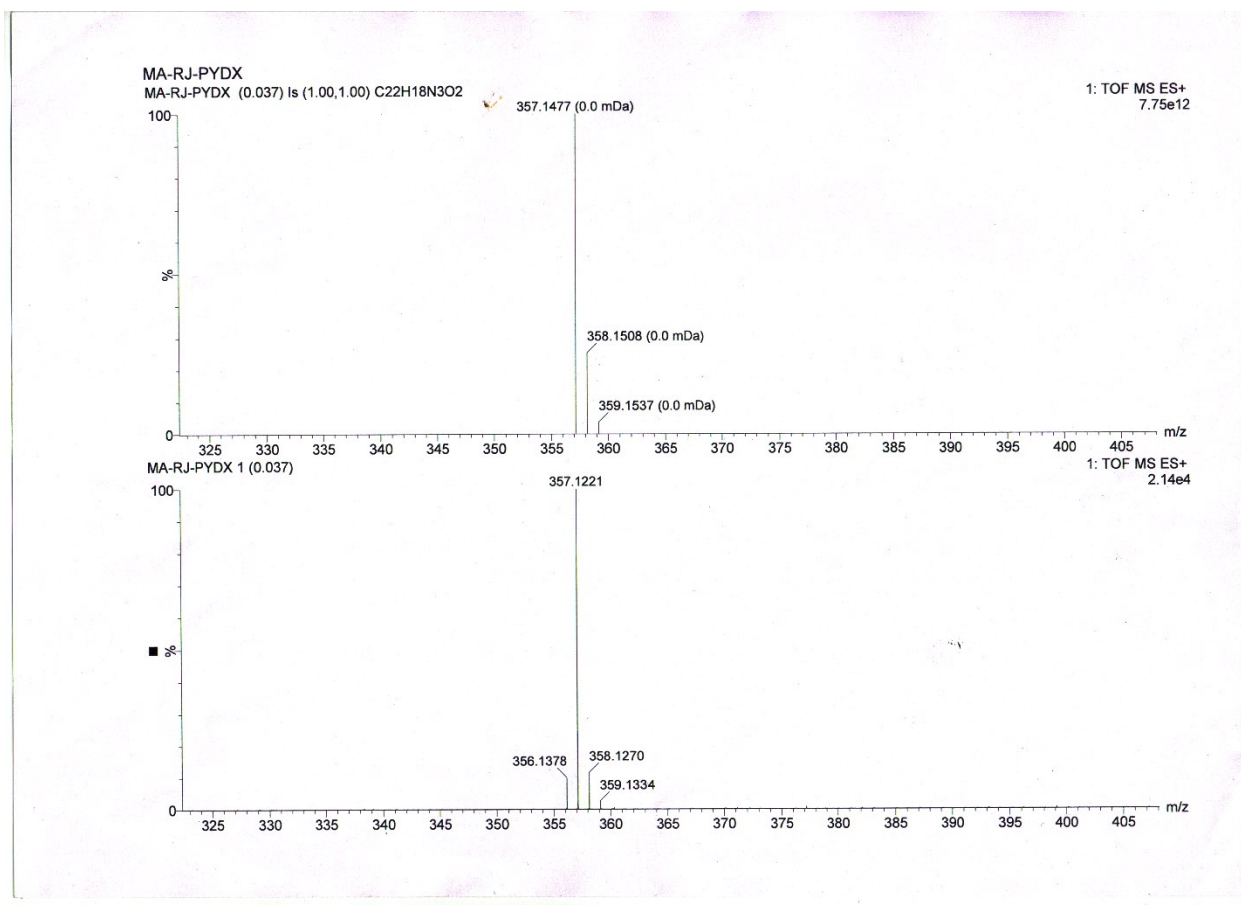


Fig.S3. Simulated mass spectrum of POPY in MeCN.

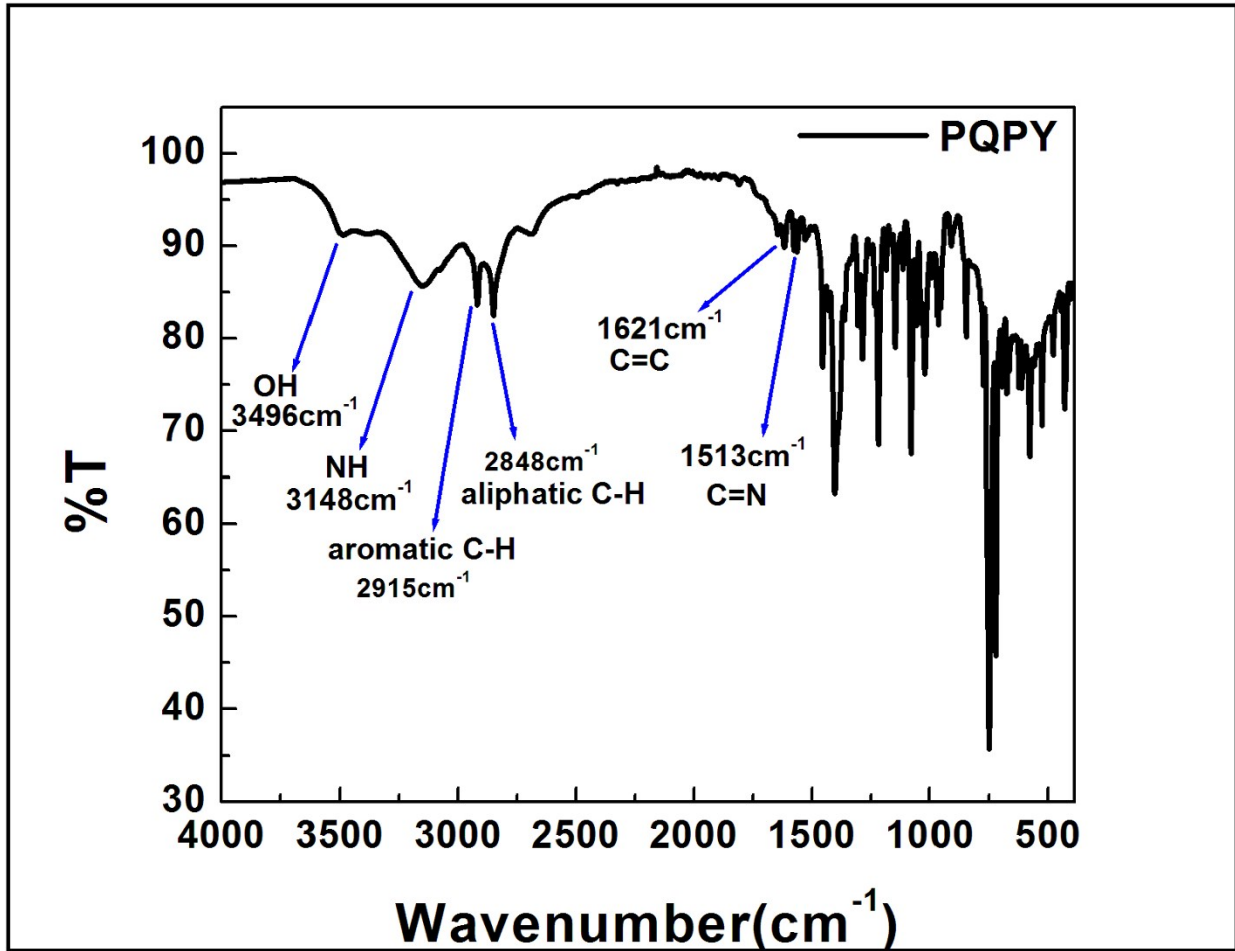


Fig.S4. IR spectrum of ligand (PQPY)

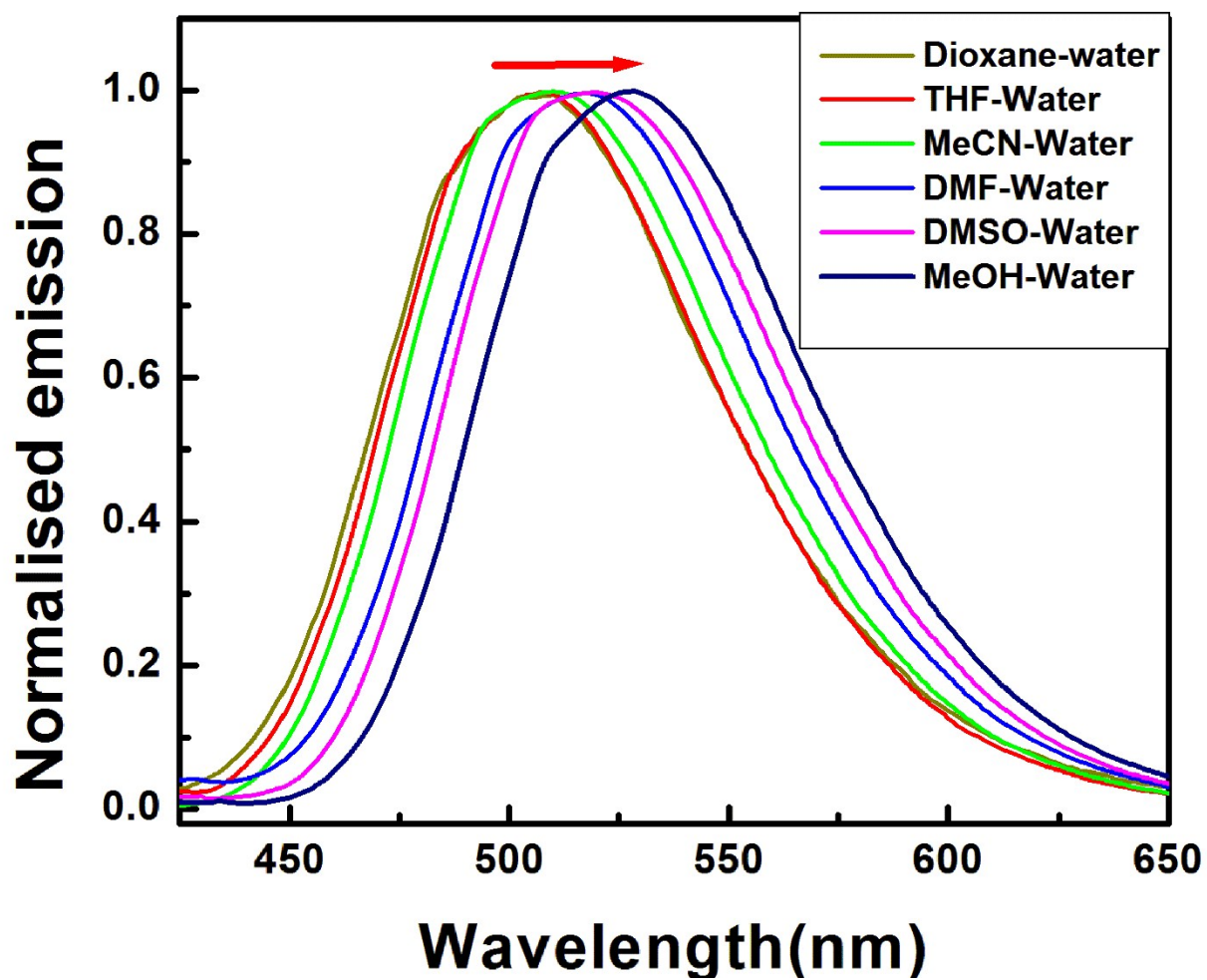


Fig.S5. Normalized emissions of probe POPY upon reaction with NO in different solvent (7:3 hepes buffer:solvent) of different polarity.

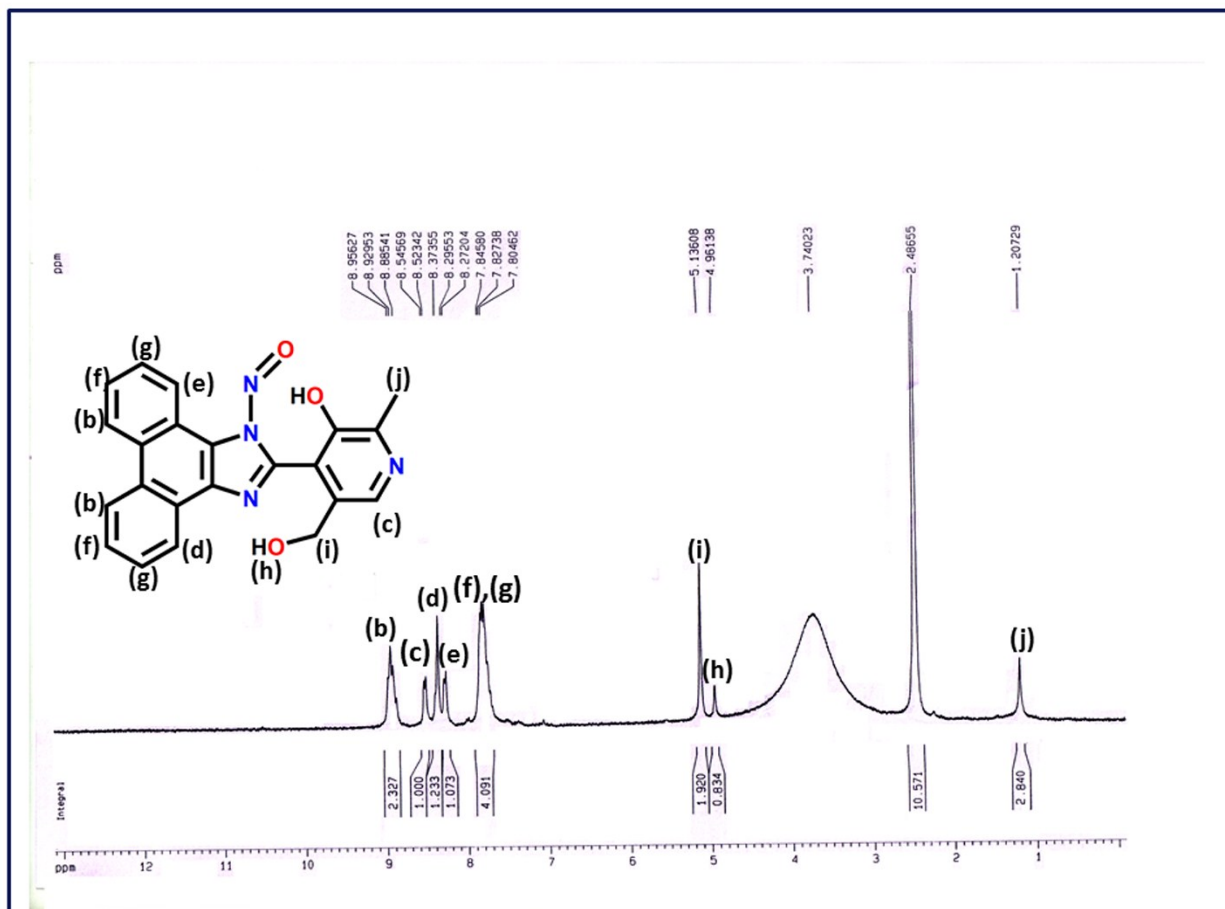


Fig.S6. $^1\text{H-NMR}$ spectrum of POPY-NO in DMSO-d_6 .

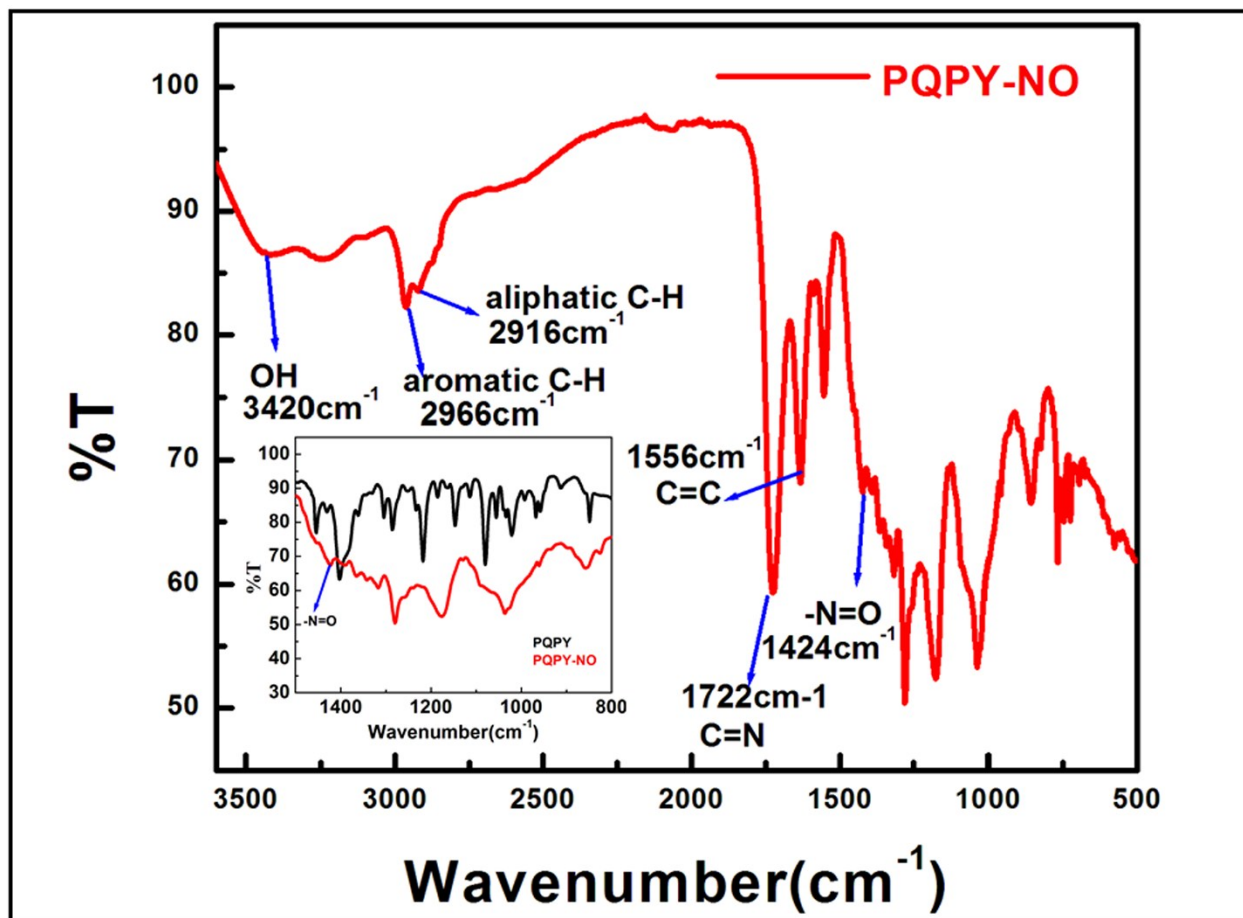


Fig.S7. IR spectrum of POPY-NO

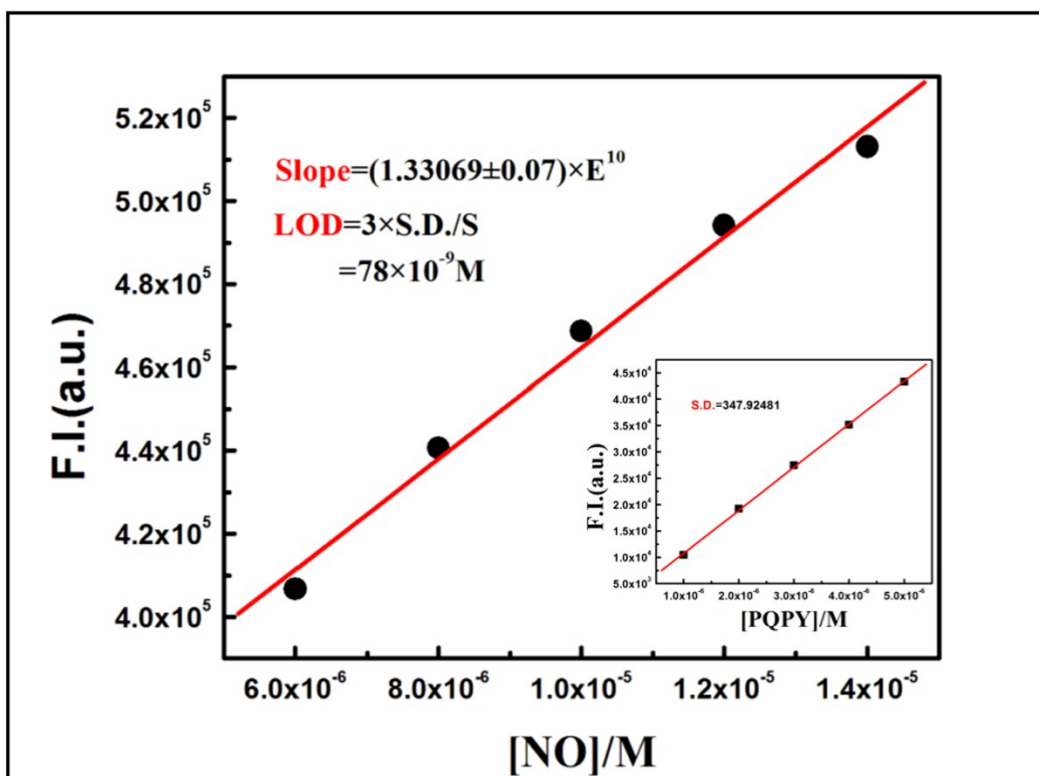


Fig.S8. Determination of LOD of PQPY+ NO.

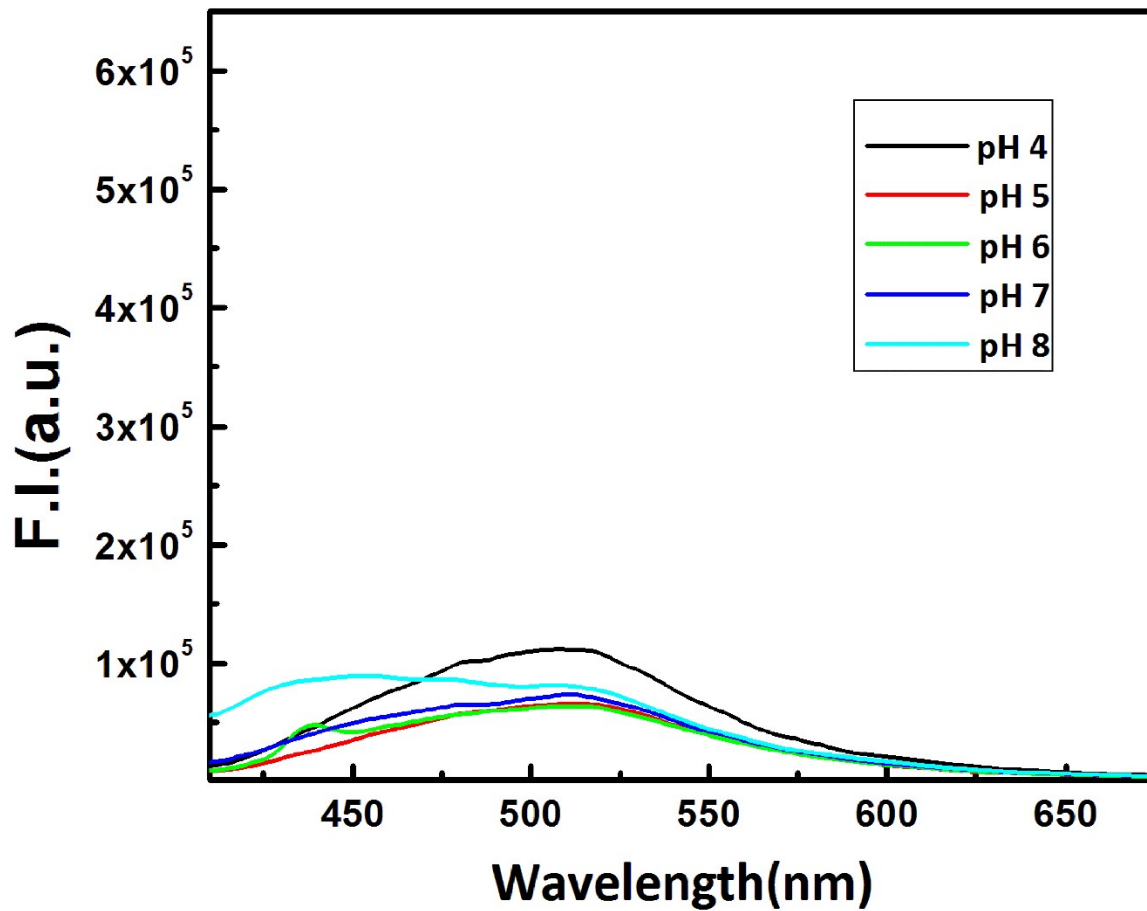


Fig.S9. Emission profile of the probe at different pH.

Bond Lengths (Å)			
N24-H26	1.429	N23-C25	1.345
C7-N24	1.393	C10-C23	1.384
C25-N24	1.237	C7-C10	1.390
Bond Angles (°)			
N24-C7-C10	105.49	N24-C25-N23	110.36
C25-N23-C10	105.93	C25-N24-N26	122.23

Table-S1 : List of some selected bond lengths of Probe (PQPY) in the ground state calculated at B3LYP Levels.

Bond Lengths (Å)			
N24-C25	1.429	N23-C25	1.310
C24-N44	1.393	C10-C23	1.406
N44-O45	1.237	C7-C10	1.390
Bond Angles (°)			
N24-C7-C10	103.33	N24-N44-O45	117.46
C25-N23-C10	106.67	C25-N24-C7	107.19
C25-N24-C44	114.95		

Table-S2 : Some selected geometrical parameters for NO product (PQPY-NO) in the ground state calculated at B3LYP Levels.