

Fabrication of an eco-friendly ratiometric fluorescence sensor modified mesoporous structured epitope imprinted polymer for highly selective and sensitive determination of cytochrome c in biological samples

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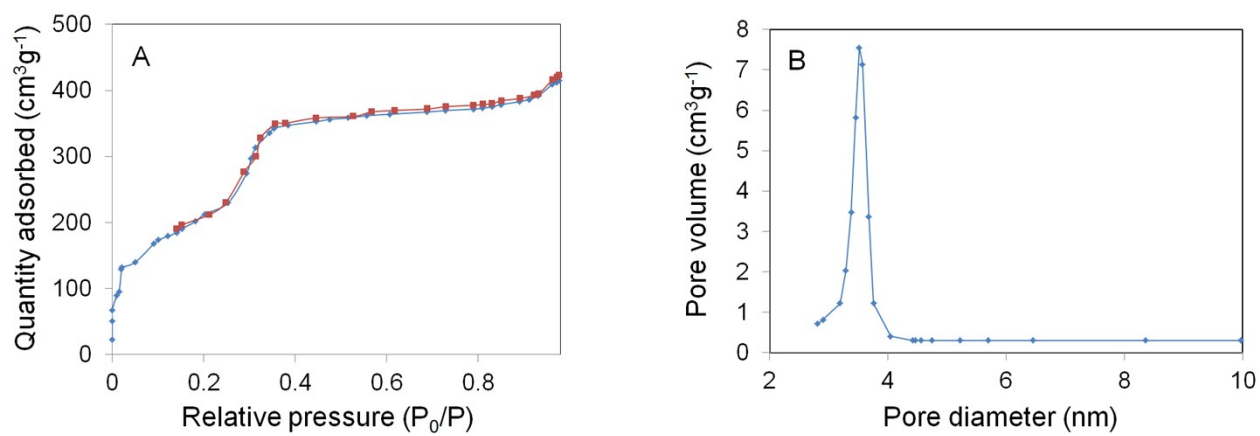


Fig. S1. N₂ adsorption–desorption isotherms (a) and pore size distribution (b) for QD@SiO₂@EMSIO₂

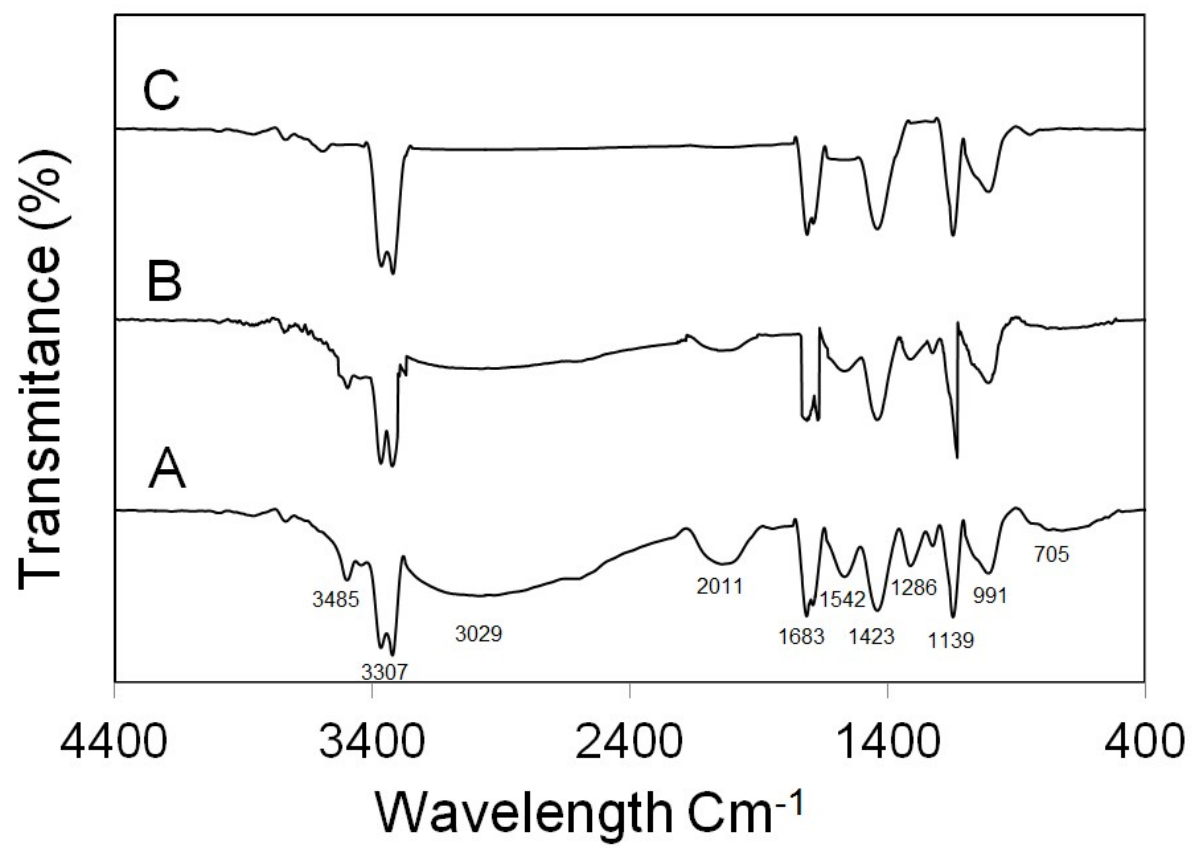


Fig. S2. FT-IR spectra of QDs@SiO₂@EMSIO₂ before (A) and after (B) washing and non-imprinted composite (D).

Table 1S. The stability investigation of the QDs@SiO₂@EMSiO₂ probe toward time.

Time (min)	F. L. intensity (a.u.) ^a
0	2699.34 ± 2.83
1	2334.90 ± 3.21
2	1700.87 ± 1.94
3	1256.65 ± 2.32
4	715.93 ± 4.51
5	562.45 ± 2.85
6	515.31 ± 3.43
7	514.30 ± 3.94
9	513.27 ± 1.62
11	513.15 ± 2.88
13	512.94 ± 2.56
15	512.76 ± 2.95

^a mean ± std, n=5

Table 2S. The stability investigation of the QDs@SiO₂@EMSiO₂ probe during a week.

Time (day)	F. L. intensity (a.u.) ^a
1	2700.78 ± 3.27
2	2700.66 ± 1.44
3	2698.55 ± 2.66
4	2697.53 ± 4.21
5	2692.48 ± 2.76
6	2688.42 ± 1.85
7	2687.37 ± 3.83
8	2685.10 ± 2.61
9	2683.44 ± 3.72
10	2682.9 ± 2.63

^a mean ± std, n=5

Table 3S. The effect of amount of composite on quenching efficiency.

Amount of composite (mg)	$F_0 - F^a$
40	599.13 $\pm$ 1.73
50	1001.22 $\pm$ 2.51
60	1836.59 $\pm$ 2.42
70	1166.43 $\pm$ 1.85
80	1200.56 $\pm$ 3.77

^a mean $\pm$ std, n=5