

Supplementary Materials

A Ratiometric Fluorescent Nano-Probe for Rapid and Specific Detection of Tetracycline Residues Based on a Dye-Doped Functionalized Nanoscaled Metal–Organic Framework

Lei Jia ¹, Shengli Guo ¹, Jun Xu ^{1,*}, Xiangzhen Chen ¹, Tinghui Zhu ¹ and Tongqian Zhao ^{2,*}

¹ College of Chemistry and Chemical Engineering, Henan Polytechnic University, Jiaozuo 454000, China; jlxj@hpu.edu.cn (L.J.); guoshenglihpu@163.com (S.G.); cxzhpu@163.com (X.C.); zthhpu@163.com (T.Z.)

² Institute of Resources & Environment, Henan Polytechnic University, Jiaozuo 454000, China

* Correspondence: xjil@hpu.edu.cn (J.X.); zhaotq@hpu.edu.cn (T.Z.); Tel.: +86-391-398-6816 (J.X.)

Table 1. The energy and the related counts for each element form EDX element analysis.

element	Energy (eV)	weight percentage
C	1257.337	35.29
O	816.009	11.53
Si	176.476	1.26
Cu	2359.465	28.15
Zr	883.720	23.59
Eu	38.015	0.16

Table S2 The color coordinates of CIE chromaticity diagram of Dye@UiO-66@SiO₂-Cit-Eu nano-probe for various concentrations of TC (from 0 to 6.0 μ M).

TC	0	0.1	0.2	0.4	0.6	0.9
concentrations(10^{-6} M)						
x	0.168	0.177	0.191	0.205	0.221	0.243
y	0.121	0.121	0.132	0.135	0.143	0.147
TC	1.2	1.6	2.0	3.0	4.0	6.0
concentrations(10^{-6} M)						
x	0.271	0.293	0.323	0.364	0.401	0.428
y	0.166	0.169	0.187	0.208	0.219	0.237