

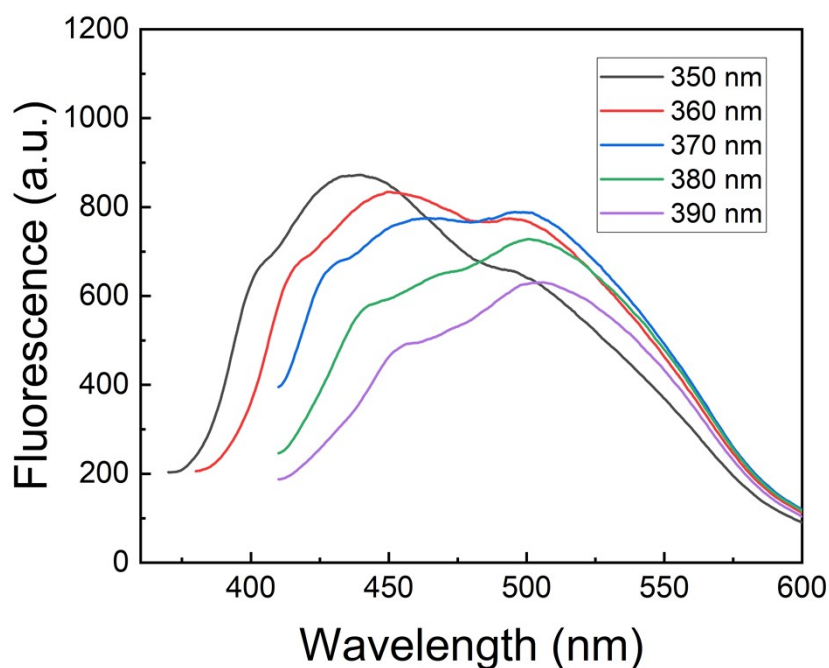
Electronic Supporting Information (ESI):

## A post-synthetic modified Eu@Zn-MOFs for ratiometric fluorescent detection of tetracycline in tap water

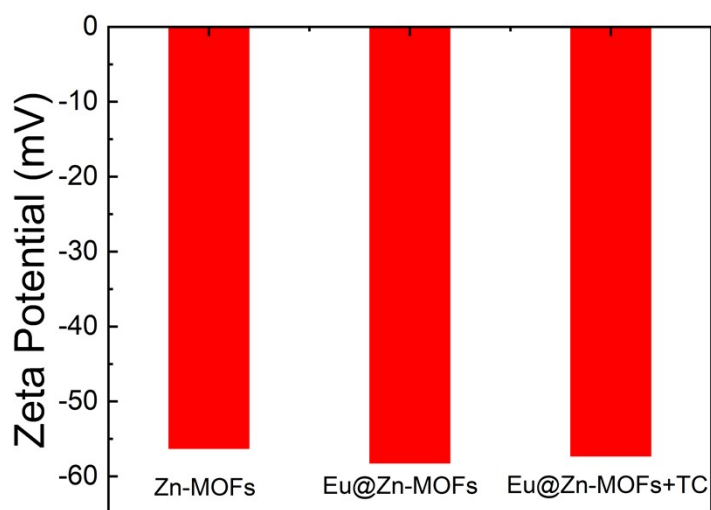
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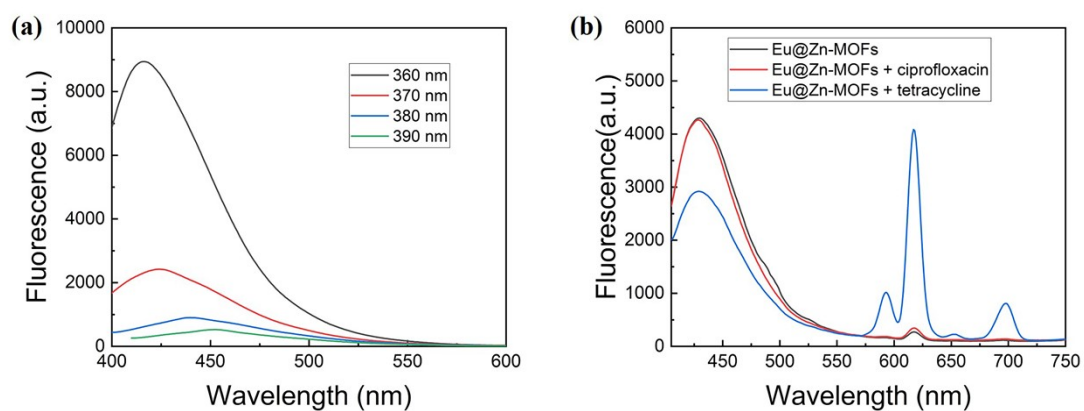
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**Figure S1** The fluorescence emission spectrum of tetracycline. Tris-HCl buffer: pH 9.0;  $c(\text{tetracycline})$ : 22.5  $\mu\text{M}$ .



**Figure S2** Zeta potential of Zn-MOFs, Eu@Zn-MOFs and Eu@Zn-MOFs + tetracycline. TC: tetracycline.



**Figure S3** (a) The fluorescence spectra of ciprofloxacin. (b) The Fluorescence spectra of Eu@Zn-MOFs, Eu@Zn-MOFs + ciprofloxacin, Eu@Zn-MOFs + tetracycline under 390 nm excitation. Tris-HCl buffer: pH 9.0;  $c(\text{Eu@Zn-MOFs})$ : 20  $\mu\text{g/mL}$ ;  $c(\text{ciprofloxacin})$ : 100  $\mu\text{M}$ ;  $c(\text{tetracycline})$ : 10  $\mu\text{M}$ .