

## Supporting Information

# Enhanced Electrochemiluminescence of Porphyrin-based Metal-Organic Frameworks Controlled *via* Coordination Modulation

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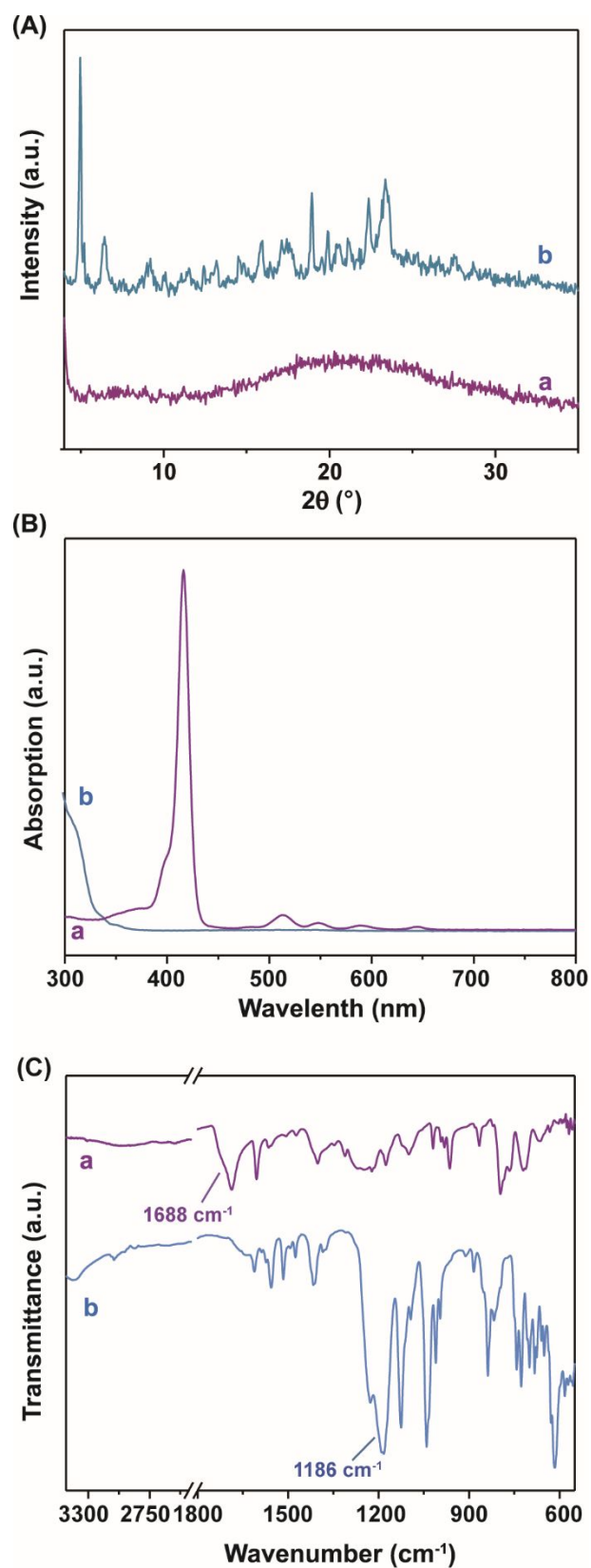
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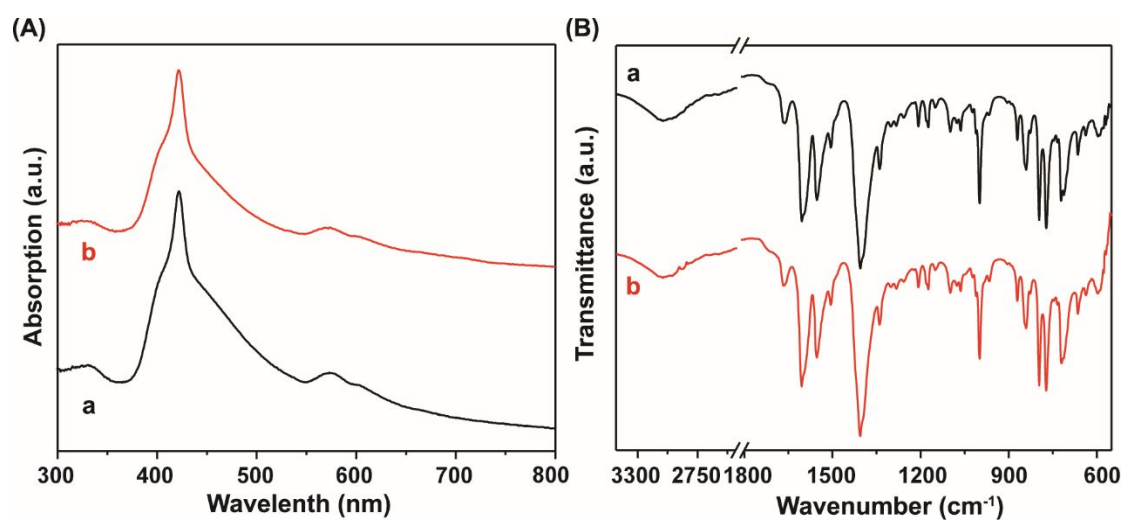
Fax: 0086-25-84303107

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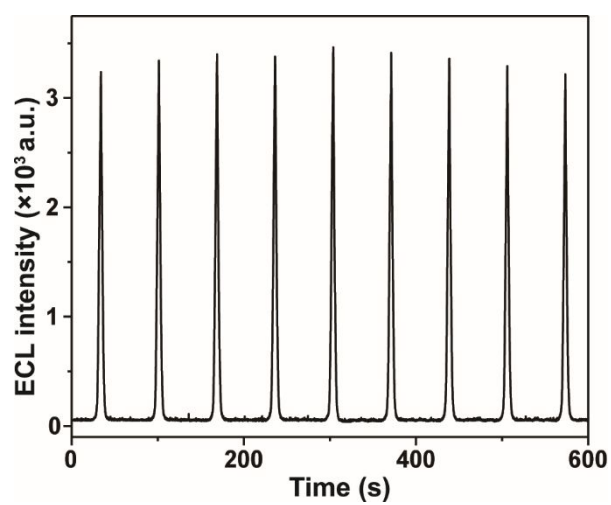
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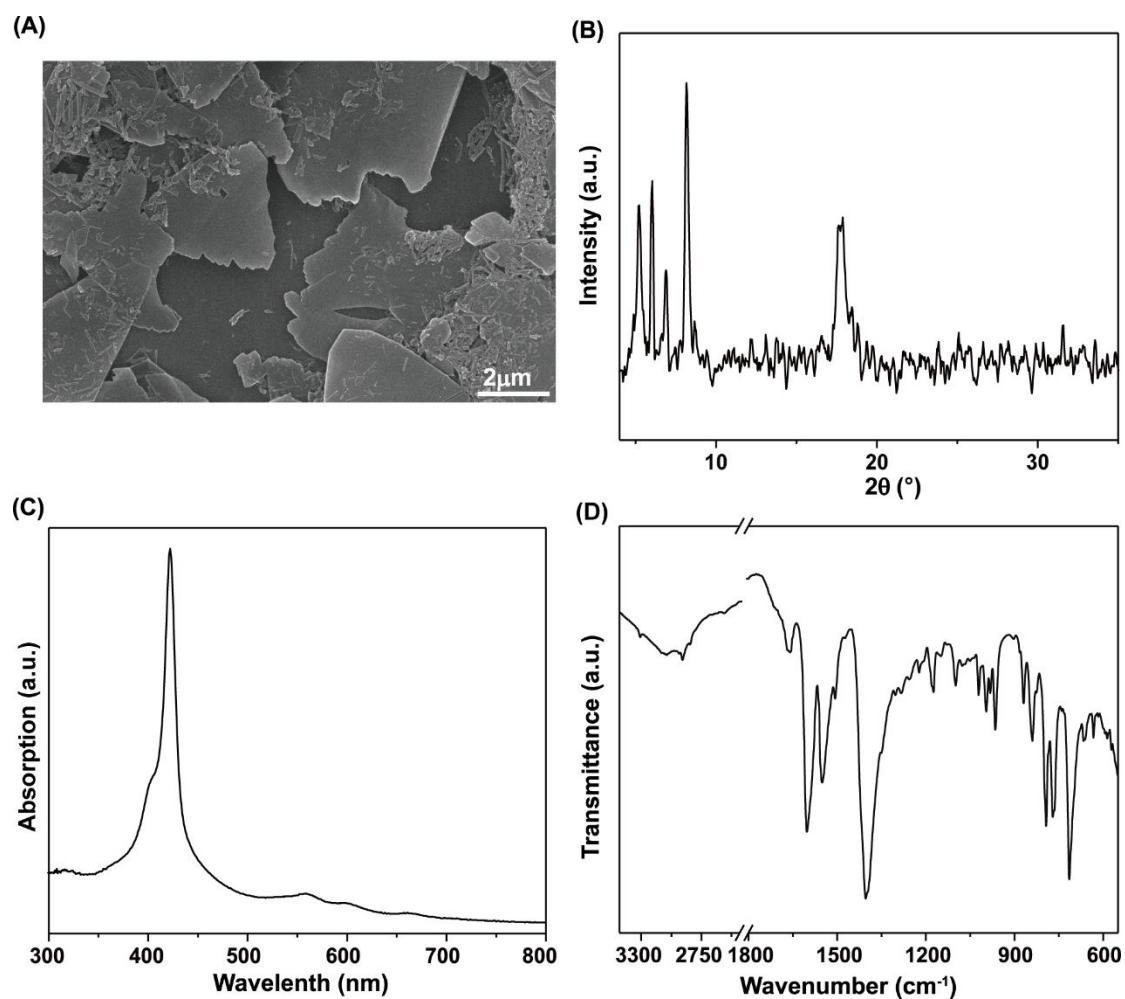
**Figure S1** (A) XRD powder pattern, (B) UV-vis absorption spectra and (C) FT-IR spectra of TCPP (a) and BPS (b).



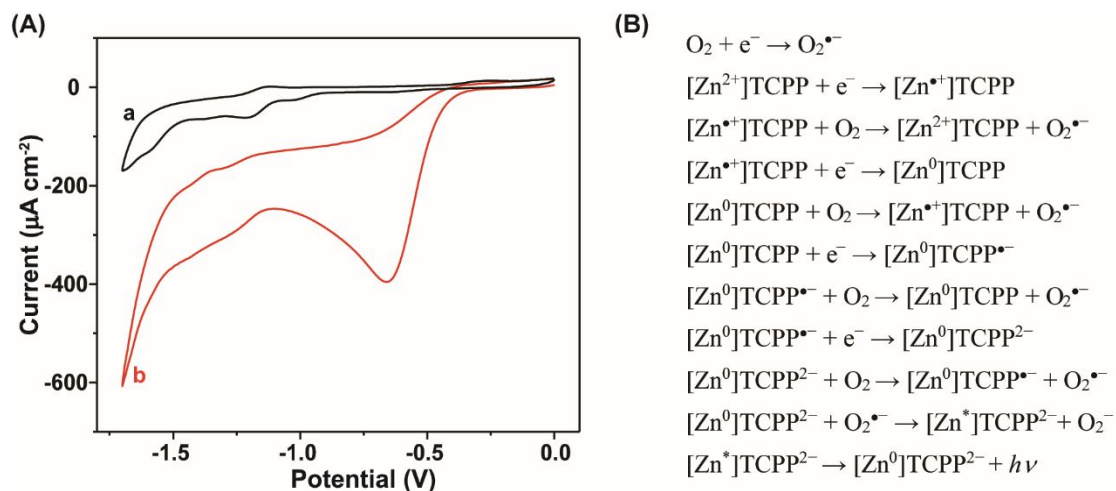
**Figure S2** (A) UV-vis absorption and (B) FTIR spectra of Zn-TCPP (a) and TCPP-Zn-BPS (b) synthesized in DMF/H<sub>2</sub>O (V/V, 2:1).



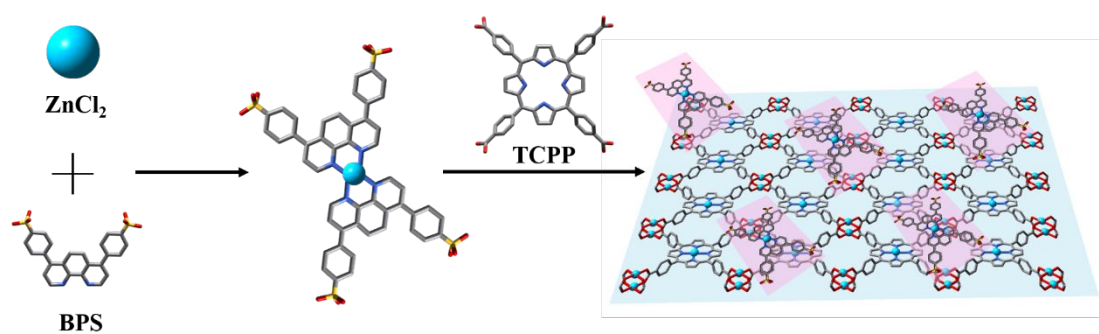
**Figure S3** ECL response of BPS-Zn-TCPP synthesized in DMF/H<sub>2</sub>O (V/V, 1:1) in 0.1M HEPES containing 0.3M KCl with 0.05 M H<sub>2</sub>O<sub>2</sub>, scan rate: 50 mV s<sup>-1</sup>.



**Figure S4** (A) SEM images, (B) XRD powder pattern, (C) UV-vis absorption spectra and (D) FT-IR spectra of BPS-Zn-TCPP synthesized in DMF/H<sub>2</sub>O (V/V, 1:1).



**Figure S5 (A)** Cyclic voltammograms of TCPP-Zn-BPS in  $\text{N}_2$ -saturated and  $\text{O}_2$ -saturated 0.1M pH 7.0 HEPES containing 0.3M KCl buffer solution. **(B)** The possible ECL mechanism with  $\text{O}_2$  as the co-reactant.



**Scheme S1** Schematic illustrations for the construction of BPS-Zn-TCPP.