

**Rational Design of Photo-responsive Supramolecular Nanostructures
based on Azobenzene-derived Surfactant-encapsulated
Polyoxometalate Complex**

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Supplementary Information

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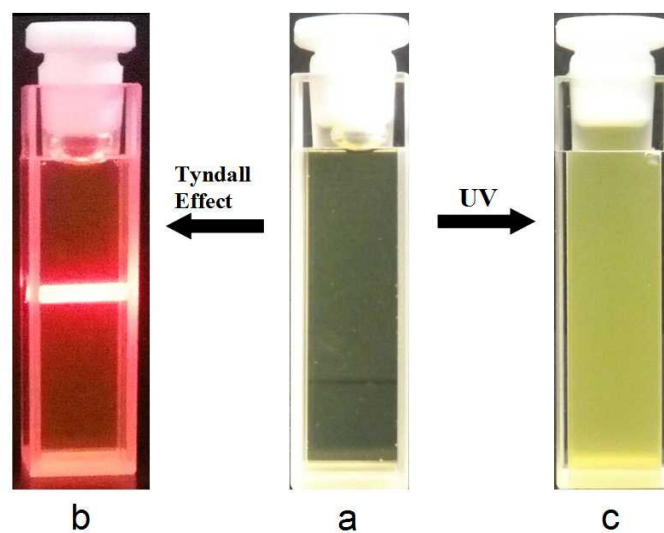


Fig. S1 Digital pictures of ETAB-POM hybrid solutions fabricated in visible light (a) and its typical Tyndall effect irradiated by a red laser light (b), and upon UV light irradiation (c).

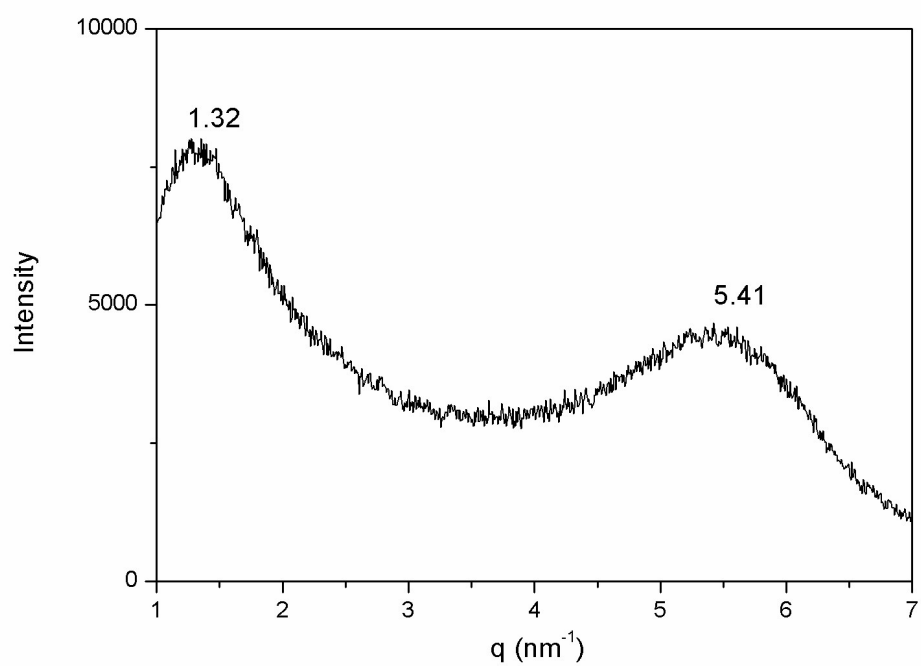


Fig. S2 The small angle X-ray scattering (SAXS) diffractogram of the ETAB-POM solid hybrid materials.

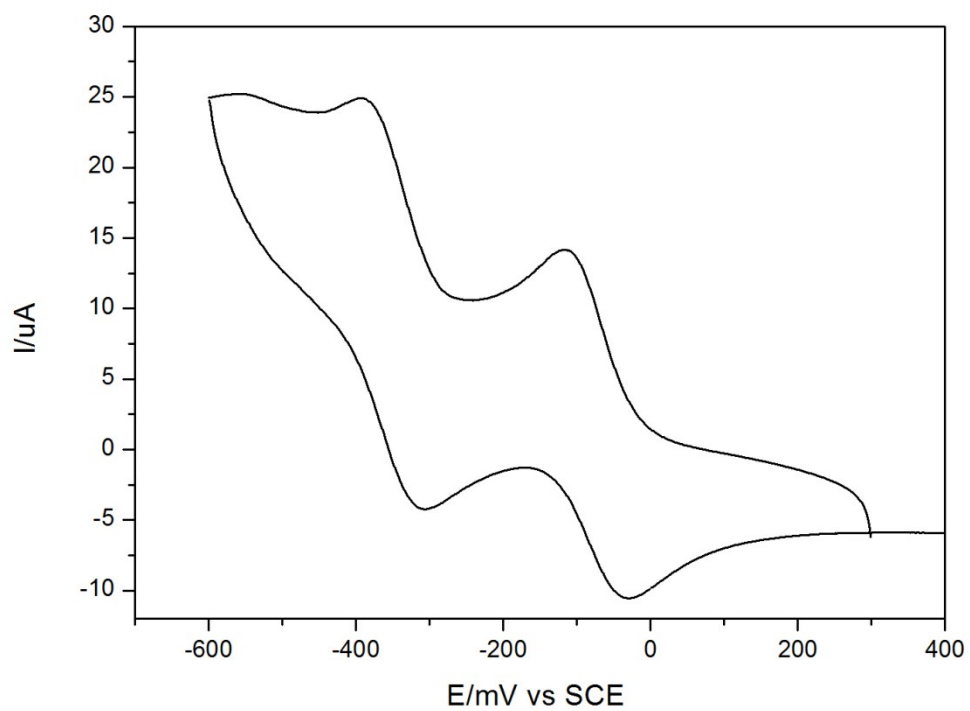


Fig. S3 The CV curve of individual POM aqueous solution vs. saturated calomel electrode (SCE) in 0.01 M H₂SO₄ solution. Scan rate: 50 mV/s.

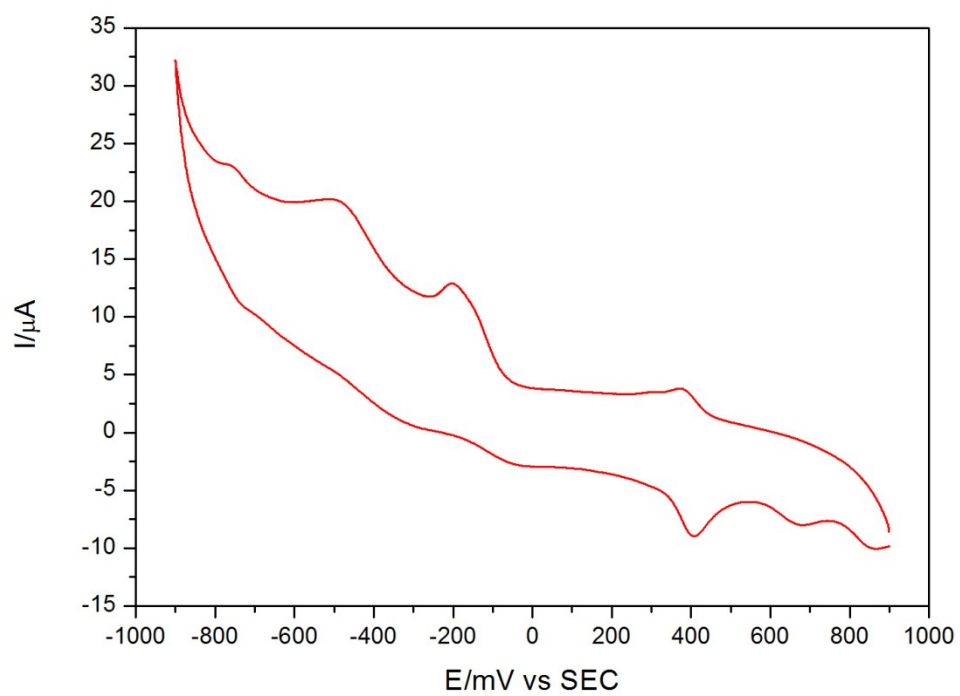


Fig. S4 The CV curve of the ETAB-POM SEs vs. saturated calomel electrode (SCE) in 0.01 M H₂SO₄ solution. Scan rate: 50 mV/s.