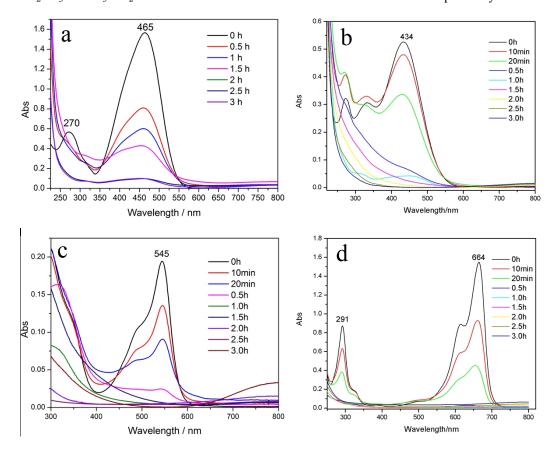
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Supporting Information

Facile preparation of Chevreul's salt (Cu₂SO₃·CuSO₃·2H₂O) mesocrystalline microspheres and its high photocatalytic activity† Mingyun Guan,* ^a Yan Jian, ^a Jianhua Sun, ^a Tongming Shang, ^a Qi Liu, ^b and Zheng Xu* ^c

SI-1 Temporal UV-vis absorption spectral changed for the various dyes solution over Cu₂SO₃·CuSO₃·2H₂O as a function of UV irradiation time from 0 to 3 h respectively



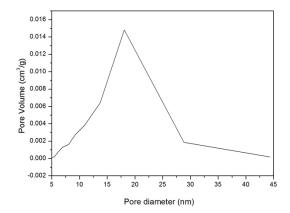
a) methyl orange, b) thymol blue, c) acid fuchsin, d) methyl blue.

SI-2 Pore-size distribution isotherms of the prepared Cu₂SO₃·CuSO₃·2H₂O mesocrystalline microspheres.

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SI-3 Synthesis of Cu₂SO₃·CuSO₃·2H₂O irregular microparticles

20 mL Na_2SO_3 (7.6 mmol·L-¹) aqueous solution was added into 20 mL $CuAc_2$ (4.67 mmol·L-¹) aqueous solution in a beaker under magnetic stirring at the ambient temperature. The slurry immediately formed. After stirring for 15 min, H_2SO_4 solution with pH value 1 was dropwise added into the above mixed solution to adjust pH value to the range of 4-4.6. The brick red precipitates at the bottom of the beaker were collected, washed with distilled water, and then dried in a vacuum oven at $80^{\circ}C$.