Supplementary Materials

For

Ultrasonic-Assisted Self-assembly Synthesis of Highly Dispersed β-MnO₂ Nanobranches Interwoven with Graphene Flakes for Catalytic Oxidation of Aromatic Compounds

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Figures

Figure S1. O1s spectra of the GO
Figure S2. XRD patterns of the residual solid after 5 circles. Reaction conditions: 

[MB] = 25 mg·L⁻¹, [H₂O₂] / [MB] = 20 mL/L, [MnO₂/GO-94 composites] = 0.5 g·L⁻¹, 
T = 25°C.
Figure S3. XPS spectra (Mn 2p) of the residual solid after 5 circles. Reaction conditions: [MB] = 25 mg·L⁻¹, [H₂O₂] / [MB] = 20 mL/L, [MnO₂/GO-94 composites] = 0.5 g·L⁻¹, T = 25°C.
Figure S4. SEM images of the residual solid after 5 circles. Reaction conditions: [MB] = 25 mg·L⁻¹, [H₂O₂] / [MB] = 20 mL/L, [MnO₂/GO-94 composites] = 0.5 g·L⁻¹, T = 25°C. Scale bars: 5 μm.
Figure S5. Absorption spectra of MB solution by MnO$_2$/GO-94 catalytic system at different intervals. Reaction conditions: [MB] = 25 mg·L$^{-1}$, [H$_2$O$_2$] / [MB] = 20 mL/L, [Catalyst] = 0.5 g·L$^{-1}$, $T = 25$ °C.