

Morphology Controlled WO₃ for the Photocatalytic Oxidation of Methane to Methanol in Mild Conditions

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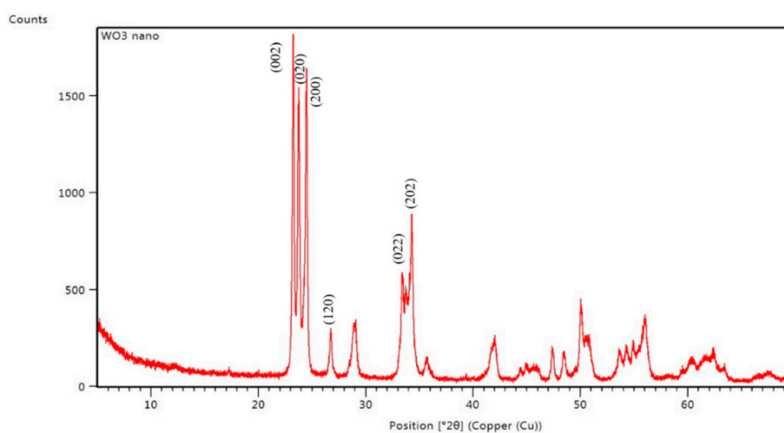
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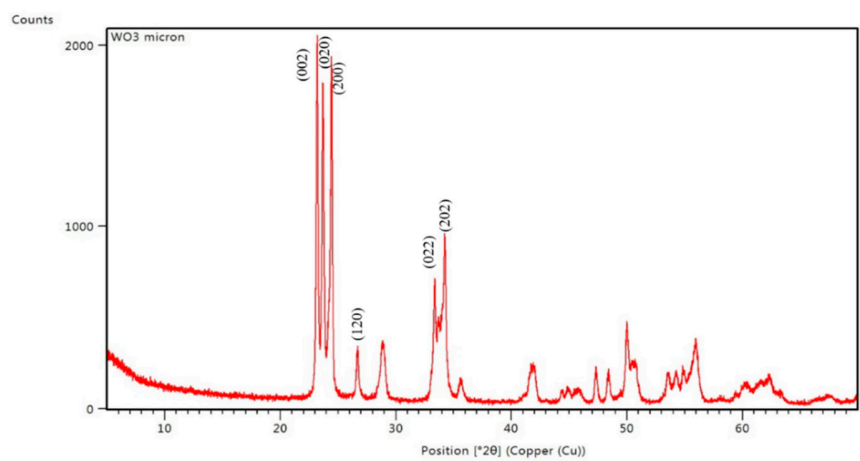
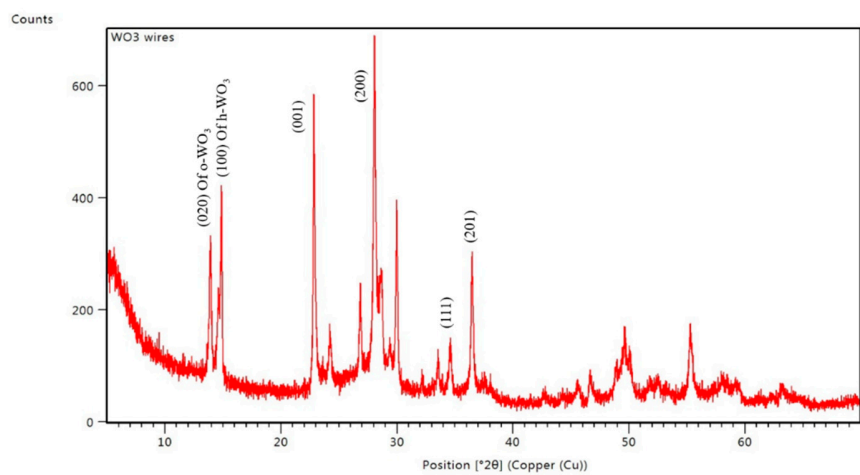
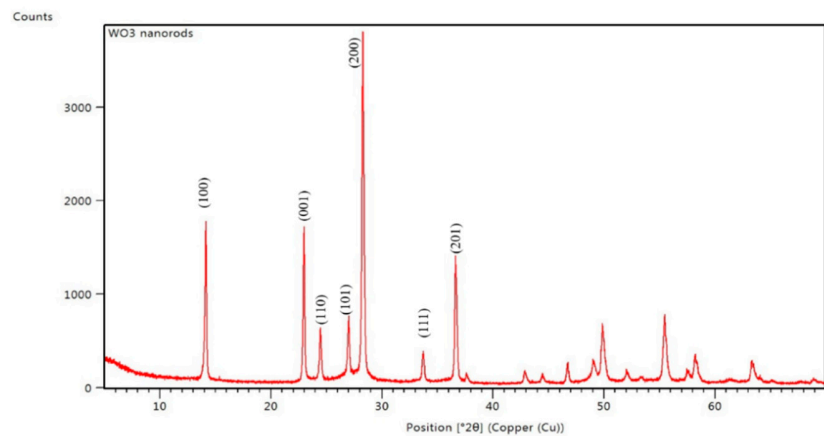
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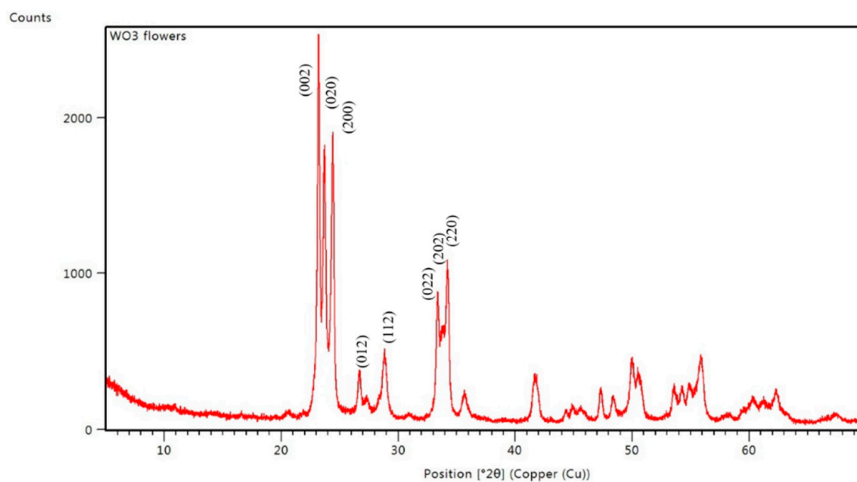


Figure S1. PXRD spectra of WO₃ morphologies.

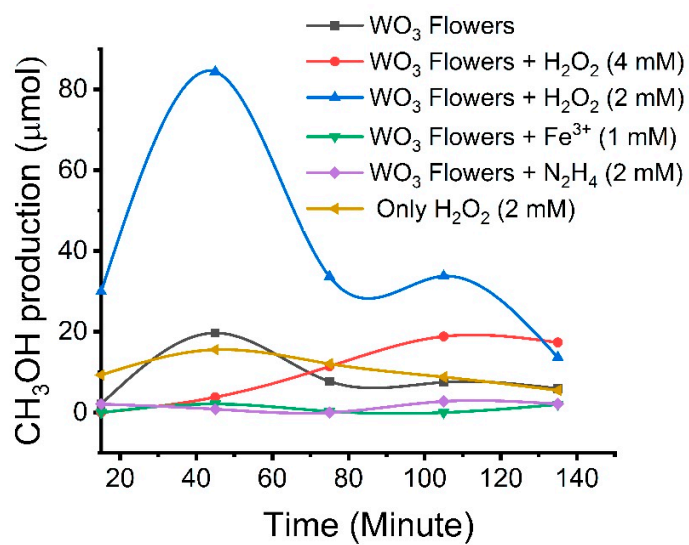


Figure S2. WO₃ Flowers with different electron scavengers (Reaction conditions; temperature = 50 °C, pH ≈ 7, UV light irradiation, CH₄/N₂ bubbling with 100 mL/min).

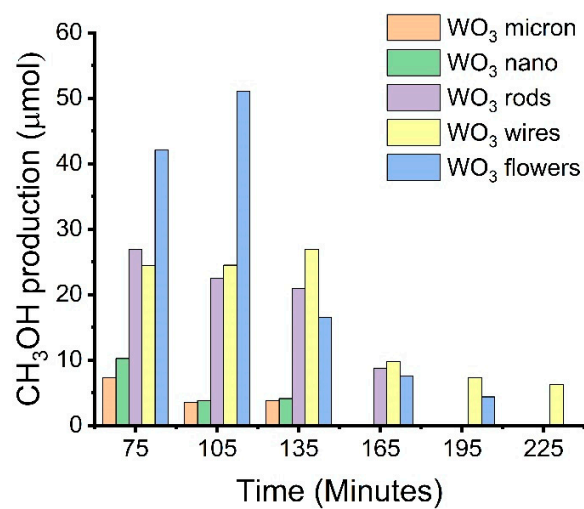


Figure S3. The yield of methanol in the photocatalytic partial oxidation of methane for WO₃ flowers/2 mM H₂O₂ (Reaction conditions; temperature = 50 °C, pH ≈ 7, UV light irradiation, CH₄/N₂ bubbling with 100 mL/min).

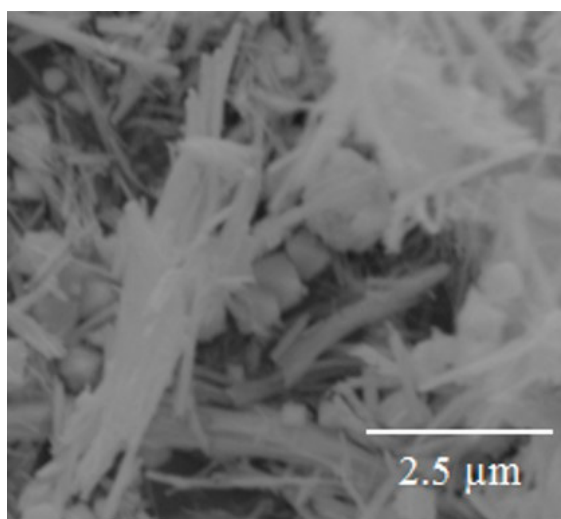


Figure S4. FESEM image of WO₃ nanowires with high agglomeration