

Supporting Information:

Photocatalytic ozonation mechanism of gaseous n-hexane on MO_x-TiO₂-foam nickel composite (M=Cu, Mn, Ag): Unveiling the role of $\cdot\text{OH}$ and $\cdot\text{O}_2^-$

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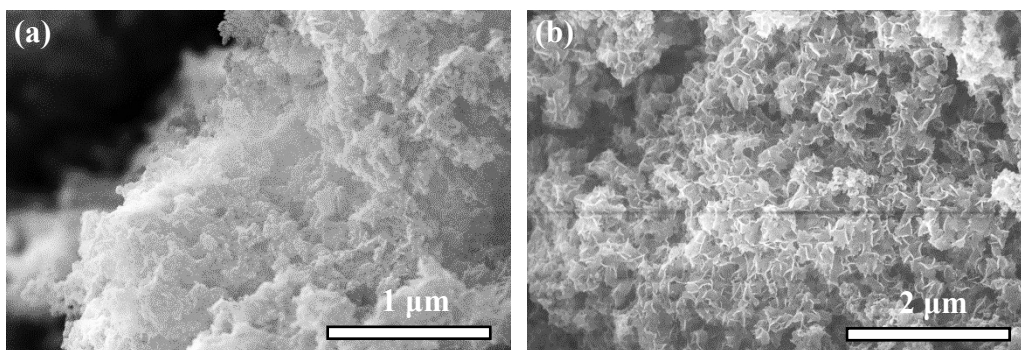


Fig.S1. SEM images of Mn₂O₃-MnO₂/TiFN (a) and Ag-Ag₂O/TiFN (b).

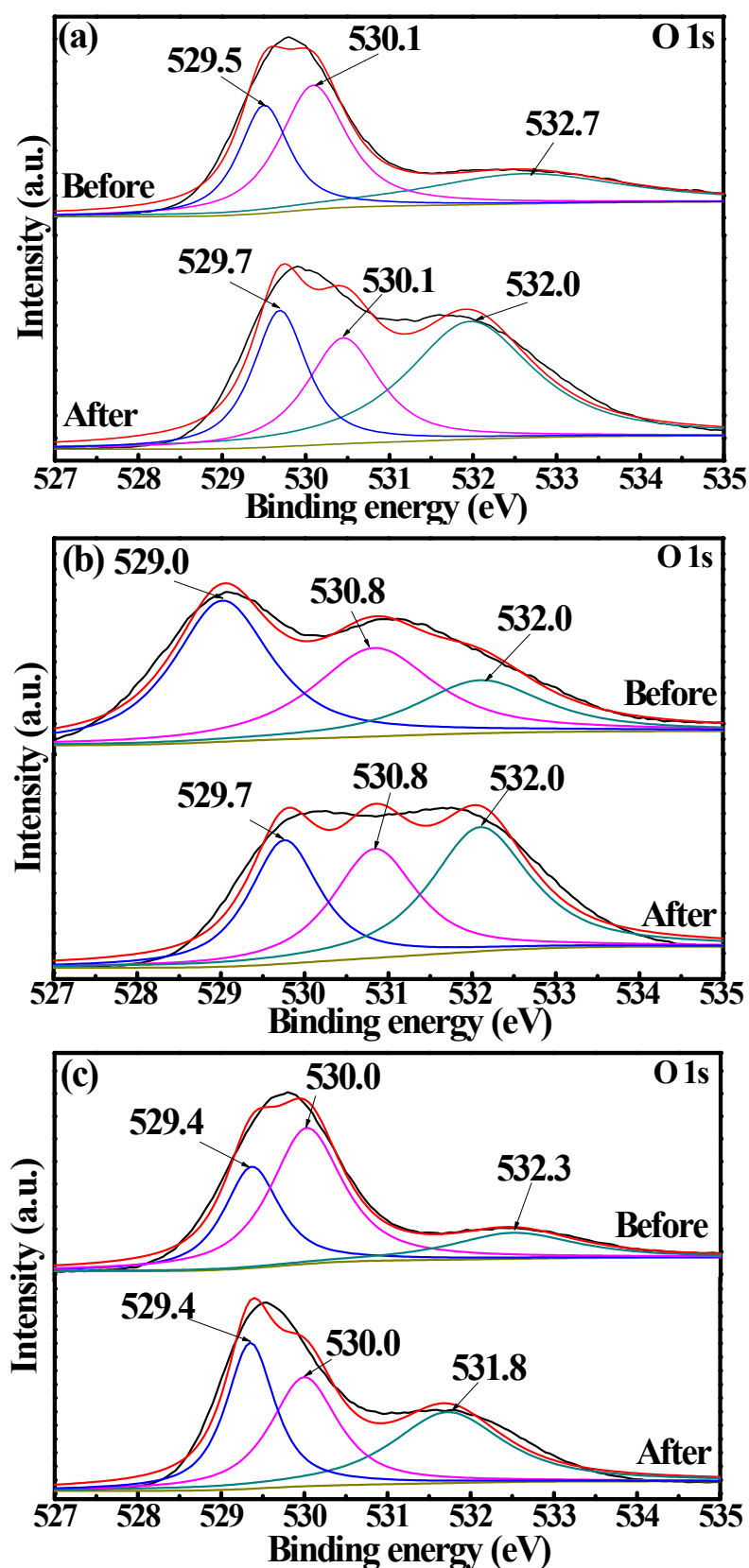


Fig. S2. O 1s spectra of $\text{Cu}_2\text{O-CuO/TiFN}$ (a), $\text{Mn}_2\text{O}_3\text{-MnO}_2\text{/TiFN}$ (b) and $\text{Ag-Ag}_2\text{O/TiFN}$ (c) before and after the photocatalytic ozonation reaction.

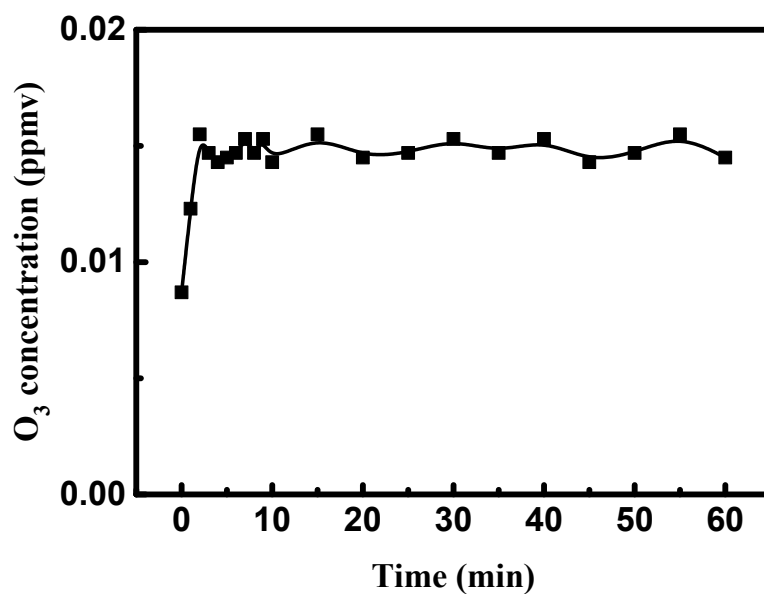


Fig. S3. Outlet O₃ concentration under VUV photolysis of n-hexane within 60 min.

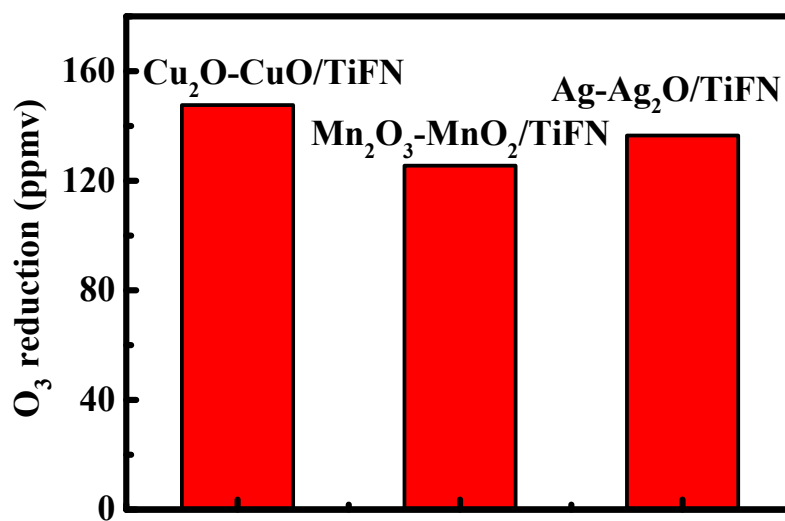


Fig. S4. Reduction concentration of O₃ after photocatalytic ozonation of n-hexane on MOx/TiFN within 60 min.

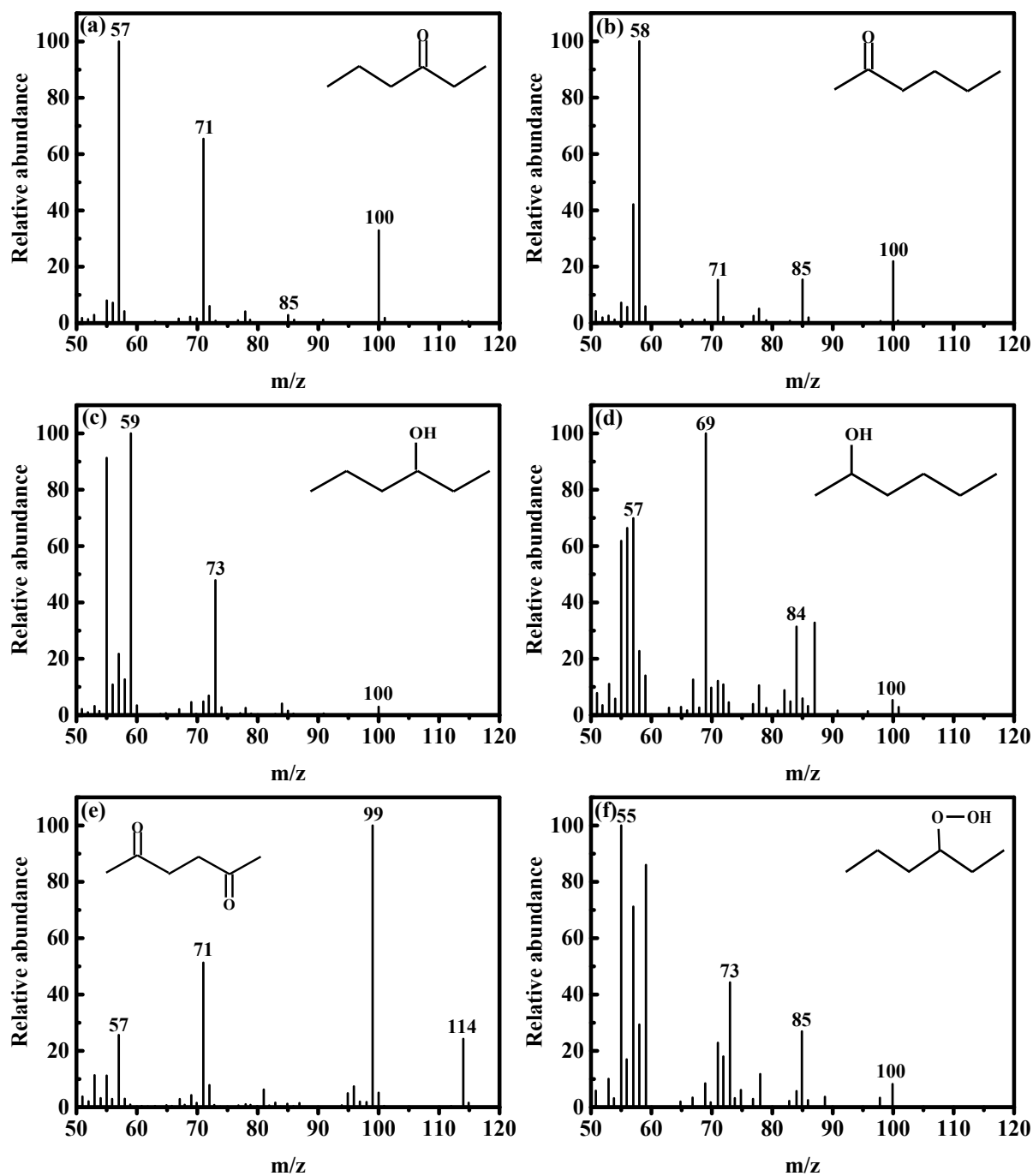


Fig. S5. Mass spectra of detected intermediates on TiFN (a-d) and MOx/TiFN (a-f).