Supporting information for

In situ preparation of WO3/g-C3N4 composite and its enhanced photocatalytic ability: a comparative study on the preparation methods of chemical composite and mechanical mixing

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**Fig. S1:** Thermogravimetric analysis results of chemical composite samples

**Fig. S2:** The EDX of chemical composite sample 3WN shows that WO$_3$ and C$_3$N$_4$ are both detected in the sample (a), while the EDX mapping of mechanical mixing sample 3W–N shows that WO$_3$ and C$_3$N$_4$ are mainly departed from each other in the sample (b).
Fig. S3: (a-d) high resolution XPS spectra of C1s, N1s, O1s, and W4f of mechanical mixing sample 3W--N.