

Supporting Information for  
Construction of g-C<sub>3</sub>N<sub>4</sub> and FeWO<sub>4</sub> Z-scheme photocatalyst: Effect of  
contact ways on the photocatalytic performance

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**Table S1.** The element composition of the materials (wt%).

Element	C	N	O	Fe	W
g-C <sub>3</sub> N <sub>4</sub>	64.00	36.00			
FeWO <sub>4</sub> -RGO/g-C <sub>3</sub> N <sub>4</sub>	19.47	23.95	12.82	9.84	33.92
RGO/FeWO <sub>4</sub> -g-C <sub>3</sub> N <sub>4</sub>	29.79	38.99	7.12	5.36	18.74

The influence of RGO content.

The RGO content in RGO/FeWO<sub>4</sub>-g-C<sub>3</sub>N<sub>4</sub> was varied by adding different mass of RGO (7 mg, 14 mg and 28 mg per 200 mg RGO/FeWO<sub>4</sub>-g-C<sub>3</sub>N<sub>4</sub>) in the prepared process. As shown in the figure below, the RGO/FeWO<sub>4</sub>-g-C<sub>3</sub>N<sub>4</sub> with 14 mg RGO addition performed best. Based on the results, it could be speculated that the performance RGO/FeWO<sub>4</sub>-g-C<sub>3</sub>N<sub>4</sub> was enhanced with the increase of RGO, because the RGO is beneficial for electron transfer from CB of the FeWO<sub>4</sub> to the VB of the g-C<sub>3</sub>N<sub>4</sub>. However, the excess RGO would obstruct the light adsorption of FeWO<sub>4</sub>, thus resulting in the performance decrease.

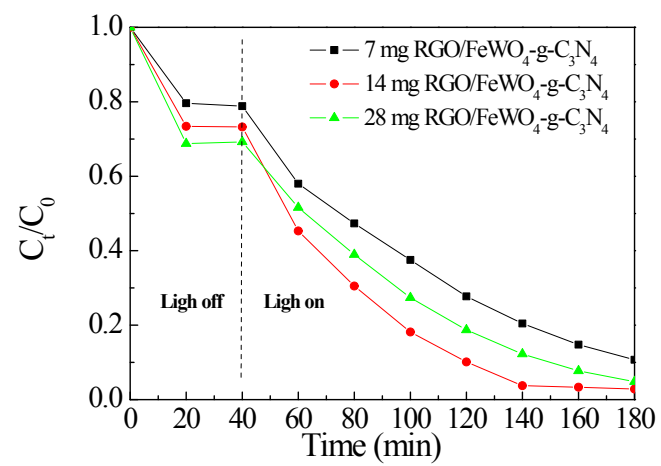


Fig S1. Photocatalytic degradation of RhB on RGO/FeWO<sub>4</sub>-g-C<sub>3</sub>N<sub>4</sub> with different RGO content under visible light.



Fig. S2. (a) Quenching effects of EDTA, BQ and t-BuOH on the photocatalytic RhB degradation.  
(b) the kinetic constant of RhB degradation in the presence of different scavengers.