Supplementary Materials

Construction of g-C_3N_4-mNb_2O_5 Composites with Enhanced Visible Light Photocatalytic Activity

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Table S1. The elements content of 4% g-C_3N_4-mNb_2O_5 by EDS analysis.

Element	Peak Area	Area Sigma	k Factor	Weight %	Weight% Sigma	Atomic %
C K	1607	113	2.208	43.54	2.20	72.06
N K	127	63	2.965	4.61	2.21	6.54
O K	313	41	1.810	6.95	0.90	8.64
Cu K	1896	71	1.366	31.79	1.56	9.95
Nb K	384	43	2.779	13.11	1.40	2.81
Totals				100.00		

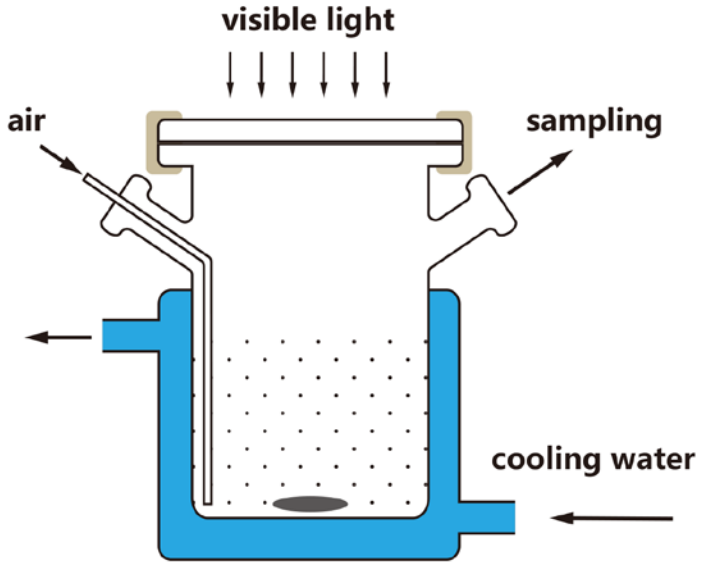


Figure S1. A schematic diagram of photocatalytic equipment.

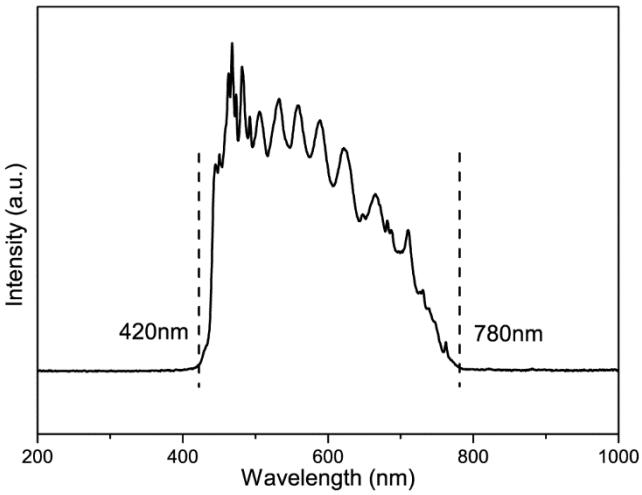
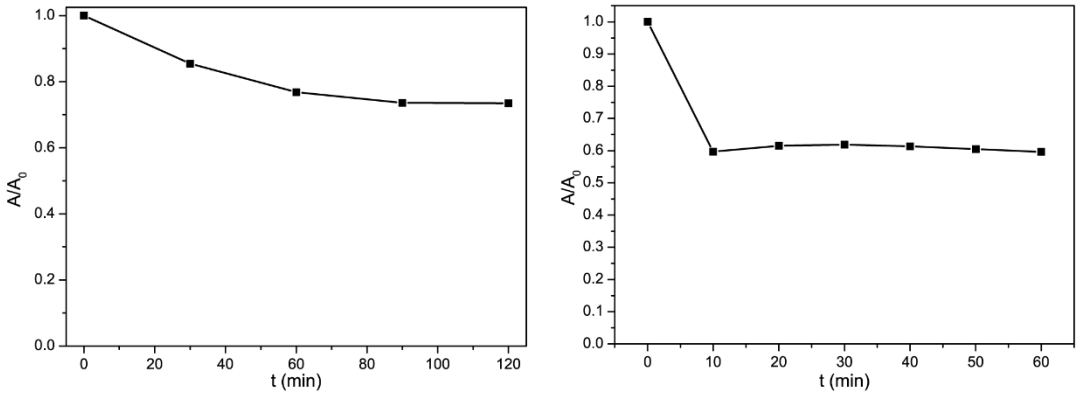
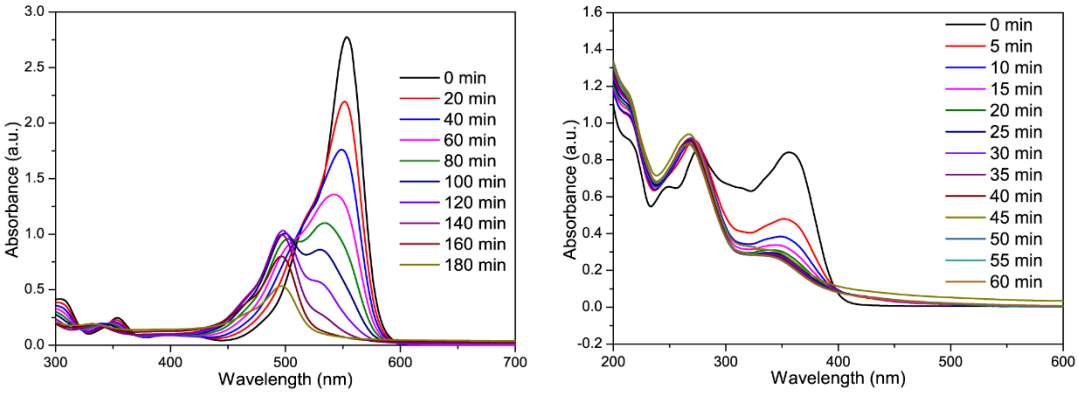


Figure S2. Emission spectrum of Xe lamp with 420 nm filter.



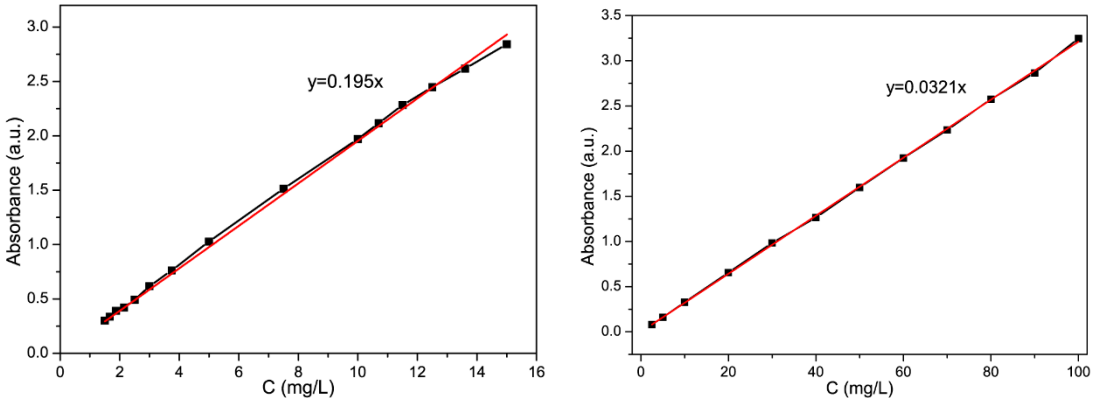
(**a**) (**b**)

Figure S3. Influence of adsorption process on: (**a**) RhB solution (15 mg/L, 70 mL); and (**b**) TC-HCl solution (40 mg/L, 100 mL) containing 30 mg 4% g-C_3N_4-mNb_2O_5 powder under dark.



(**a**) (**b**)

Figure S4. Absorption changes of: (**a**) RhB solution (15 mg/L, 70 mL); and (**b**) TC-HCl solution (40 mg/L, 100 mL) containing 30 mg 4% g-C_3N_4-mNb_2O_5 powder under visible light irradiation.



(**a**) (**b**)

Figure S5. Standard curves of absorbance intensity vs. concentration of: (**a**) RhB solution; and (**b**) TC-HCl solution.