



Supplementary Materials

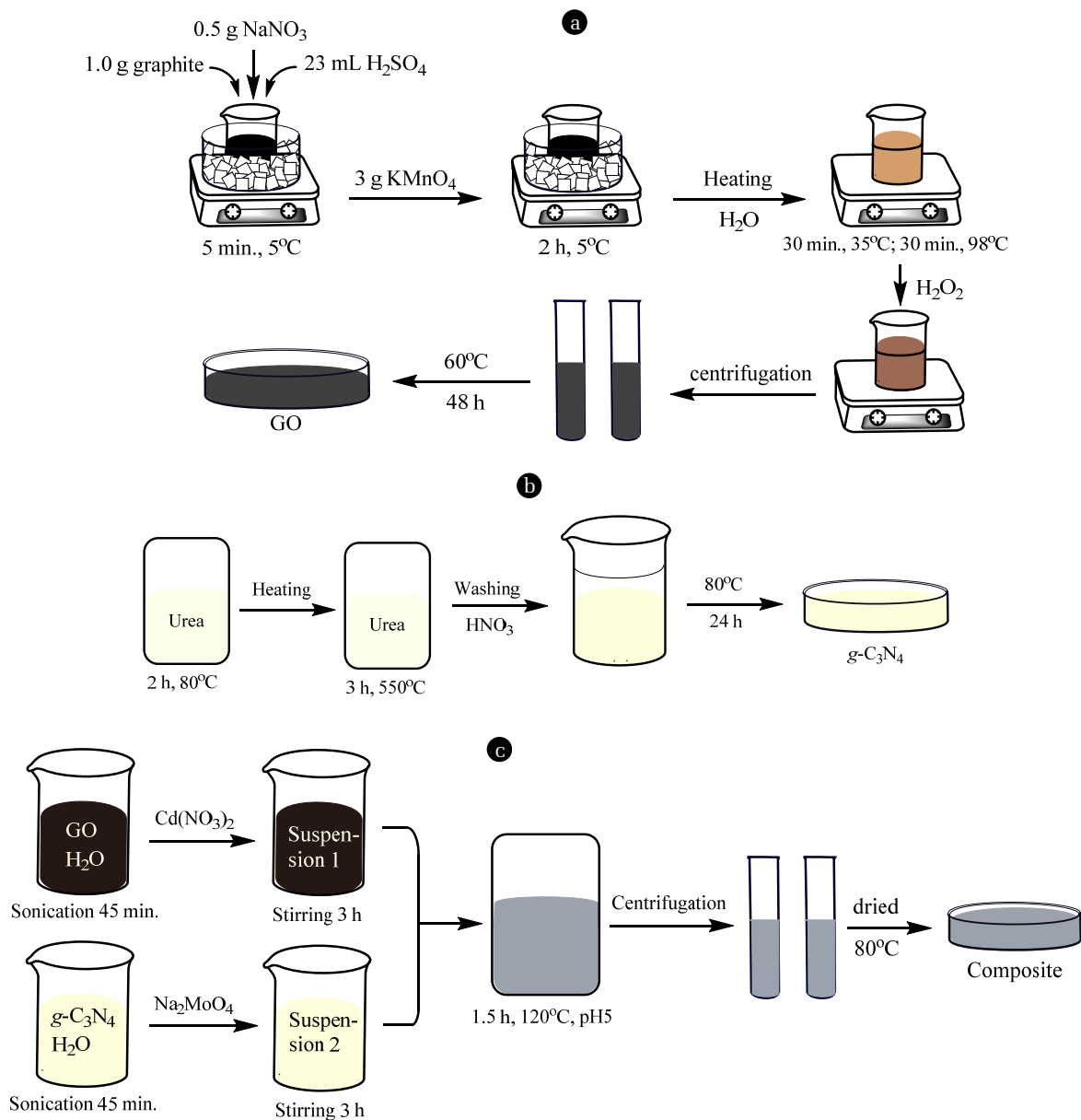


Fig. S1. The schematic diagram of the materials synthesis process: Graphene oxide; (b) Carbon nitride; (c) $\text{CdMoO}_4/g\text{-C}_3\text{N}_4/\text{GO}$ composite.

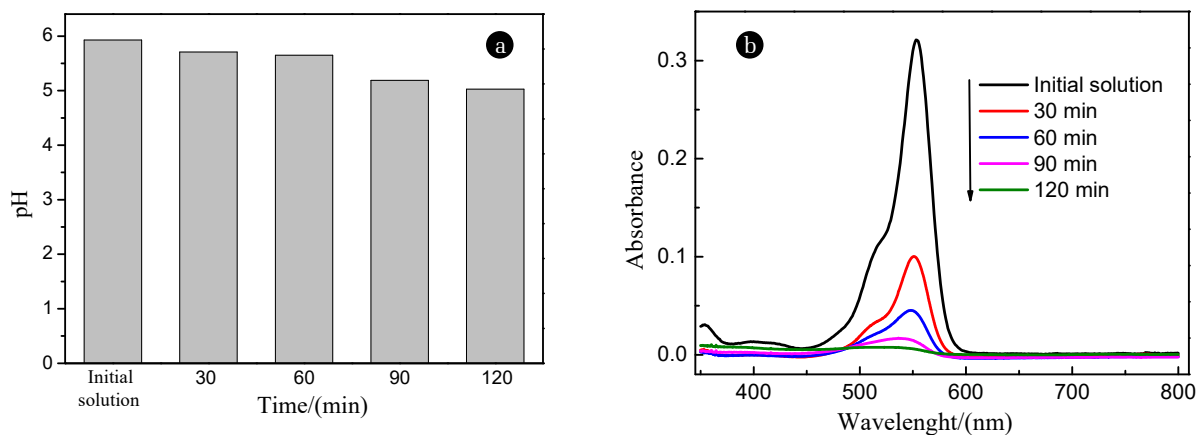


Fig. S2. The pH of the solution (a) and UV-Vis spectra of RhB solution at different reaction times (b).

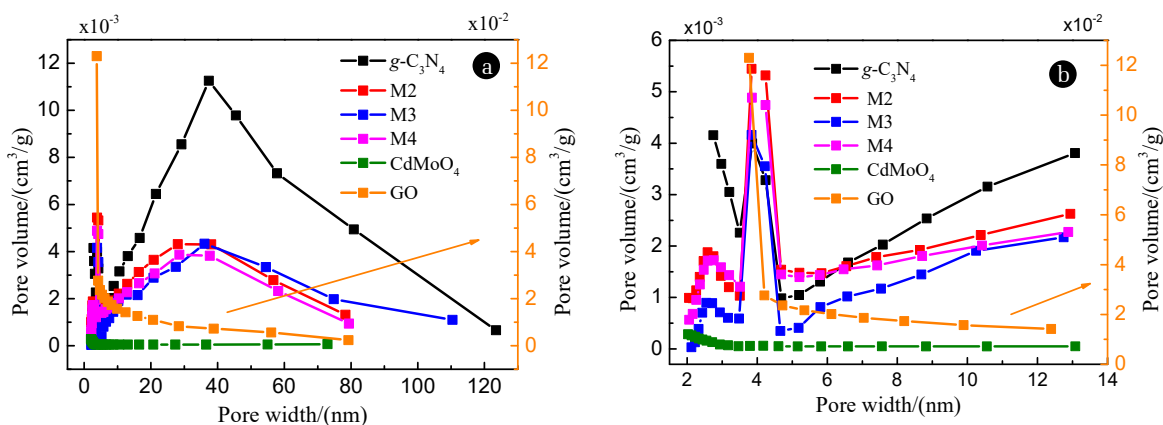


Fig. S3. The pore-size distribution plots of GO, g-C₃N₄, CdMoO₄, M2, M3, and M4 samples: Pore with from 0 -125 nm (a); from 0-14 nm (b)

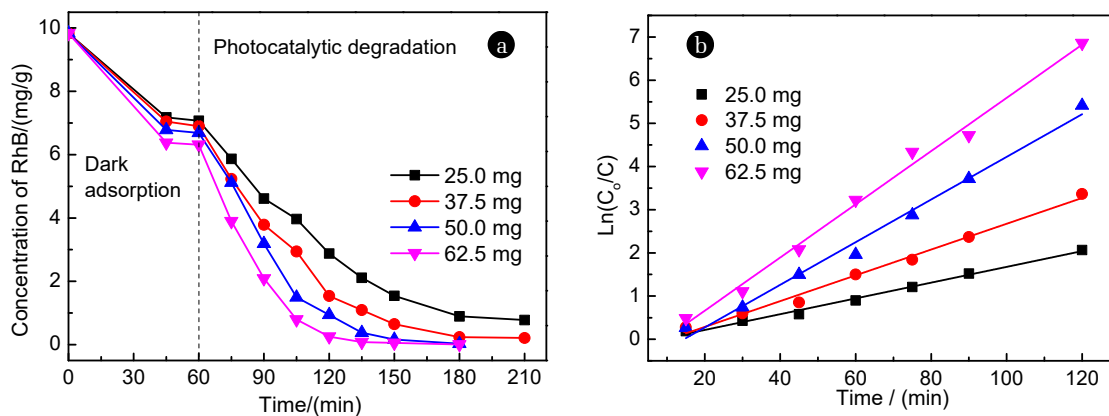


Fig. S4. Photocatalytic degradation of RhB (a) and first-order kinetics plot for the degradation of RhB (b) of M3 composite with different amounts

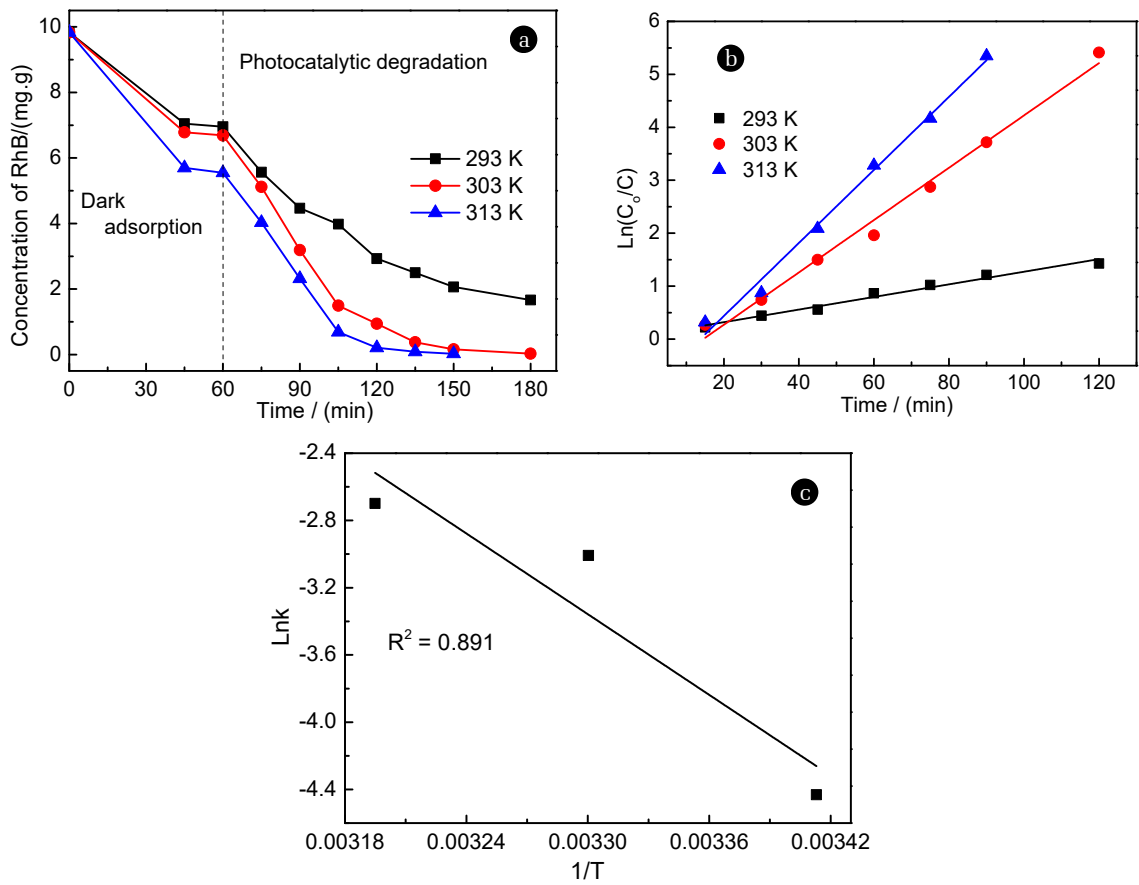


Fig. S5. Photocatalytic degradation of RhB (a), first-order kinetics plot (b) for the degradation of RhB of composites at different temperatures, and graph representing $\ln k$ in term of $1/T$ (c). Reaction conditions: 125 mL RhB 10 mg/L + 50 mg catalyst.

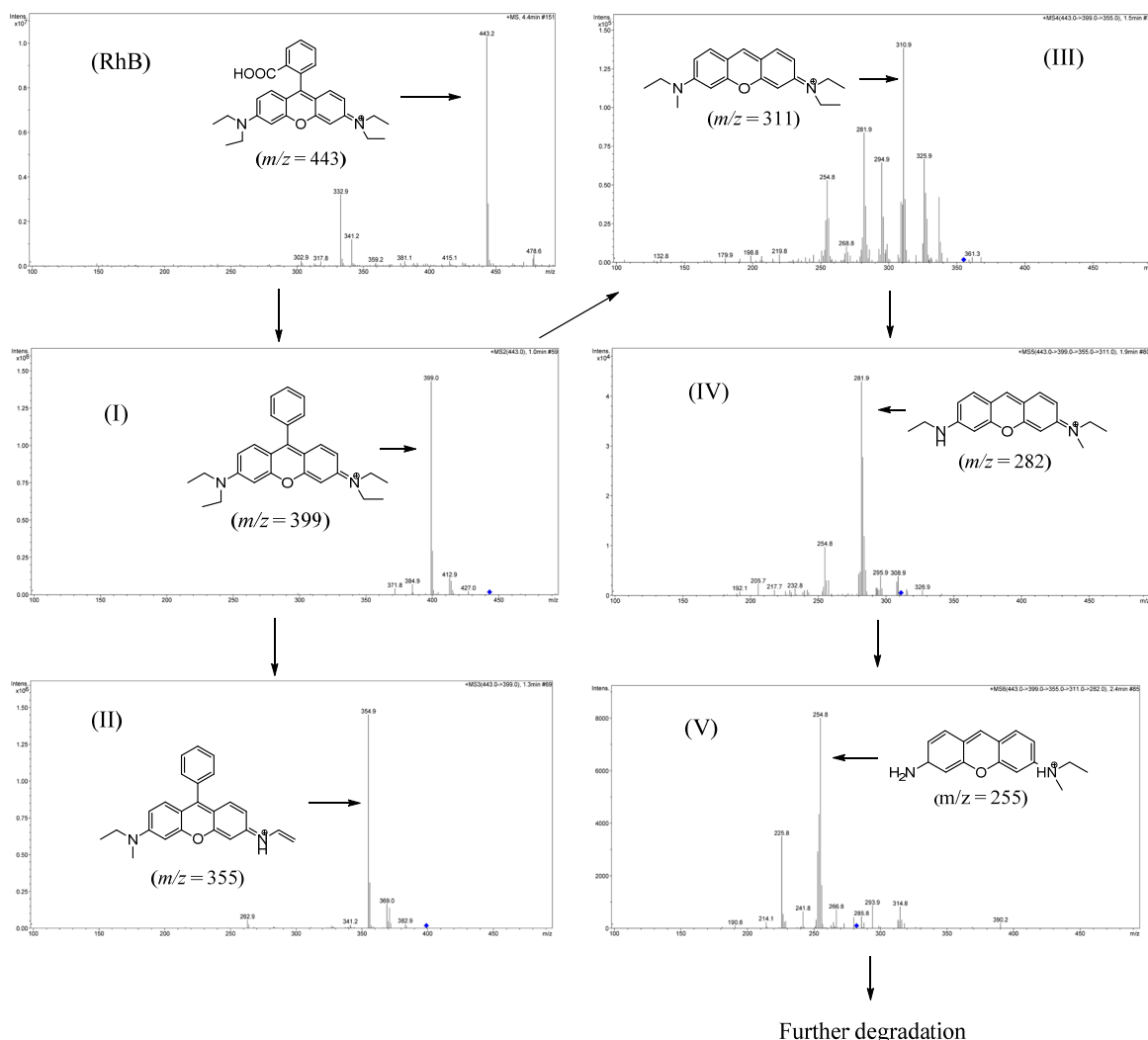


Fig. S6. Proposed pathway of RhB degradation over composite CdMoO₄/g-C₃N₄/GO catalyst under visible light

Table S1. Some parameters of the porous properties of the synthesized materials

Samples	Specific surface area, m ² /g	Pore volume, cm ³ /g	Average pore diameter, nm
GO	161.6	0.73	9.67
g-C ₃ N ₄	75.2	0.59	31.34
CdMoO ₄	1.4	0.01	21.11
M2	42.9	0.24	22.64
M3	41.4	0.29	31.70
M4	37.8	0.20	21.87