

S-scheme g-C₃N₄/PVA Heterojunction with Enhanced Photocatalytic Reduction of Aqueous Cr(VI) and Mechanism

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Figure S1. Enlarged images of the (002) diffraction peaks of g-C₃N₄ and g-C₃N₄/PVA heterojunction.

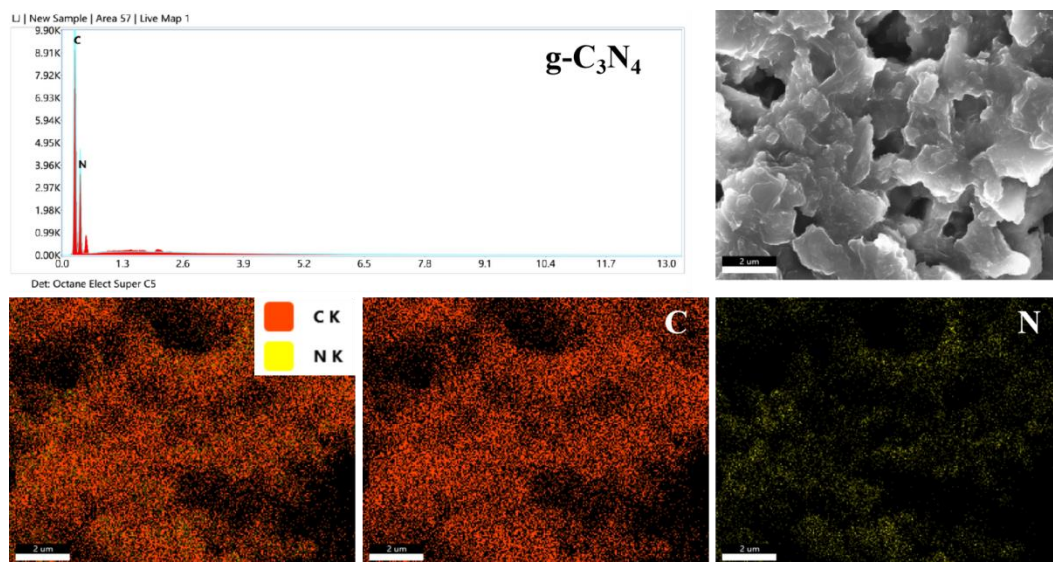


Figure S2. EDX spectrum and elemental mapping images of g-C₃N₄.

Table S1. Elemental Composition of g-C₃N₄/PVA-3 and g-C₃N₄.

Sample	g-C ₃ N ₄ /PVA-3			g-C ₃ N ₄	
	C	N	O	C	N
Weight %	47.12	47.46	5.42	50.61	49.39
Atomic %	51.29	44.28	4.43	54.45	45.55

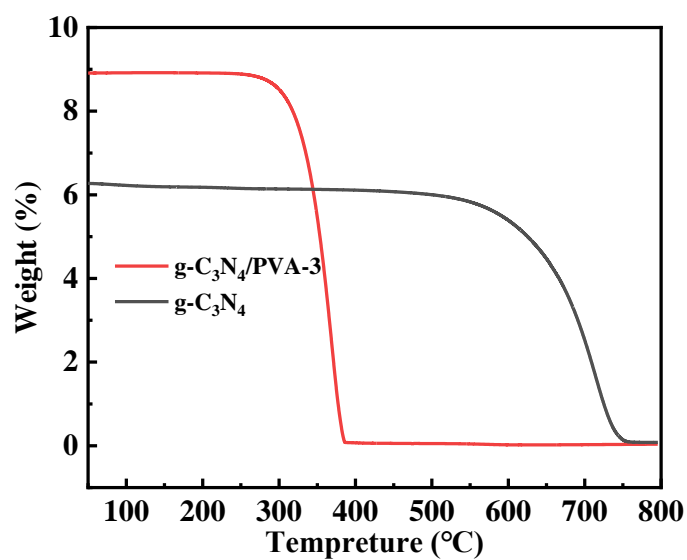


Figure S3. TGA of g-C₃N₄/PVA-3 and g-C₃N₄.

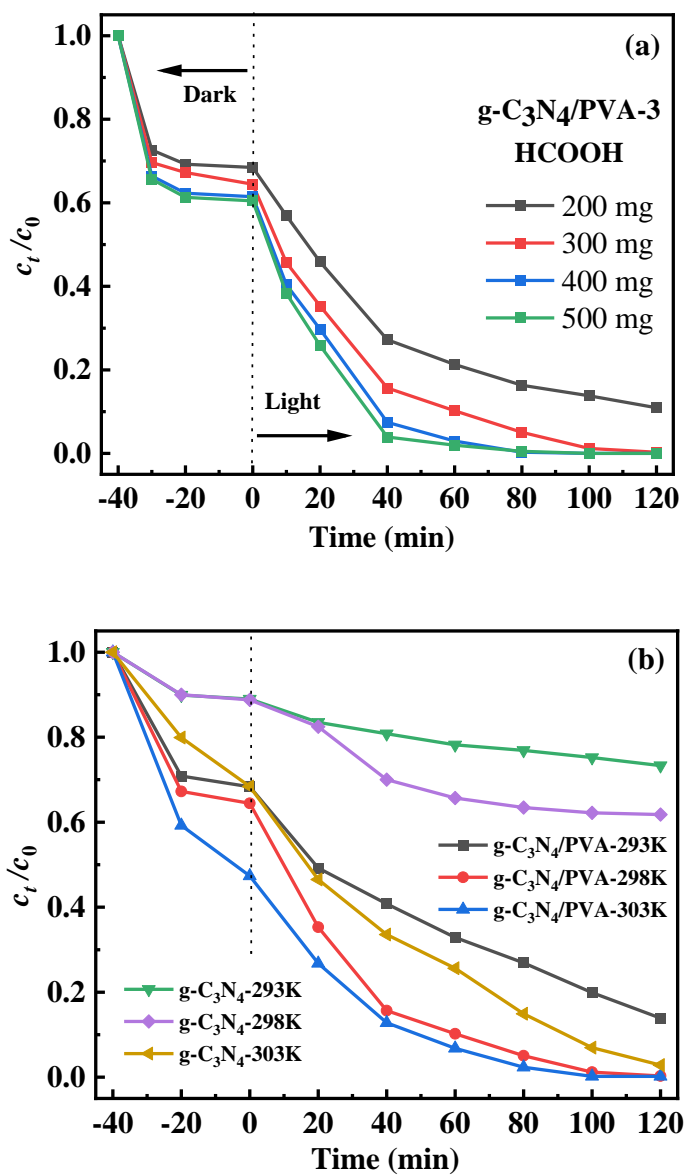


Figure S4. (a) photocatalytic reduction efficiency of g-C₃N₄/PVA-3 at 200 mg~500 mg for Cr(VI), and (b) photocatalytic reduction efficiency of g-C₃N₄/PVA-3 and g-C₃N₄ for Cr(VI) at different temperatures.

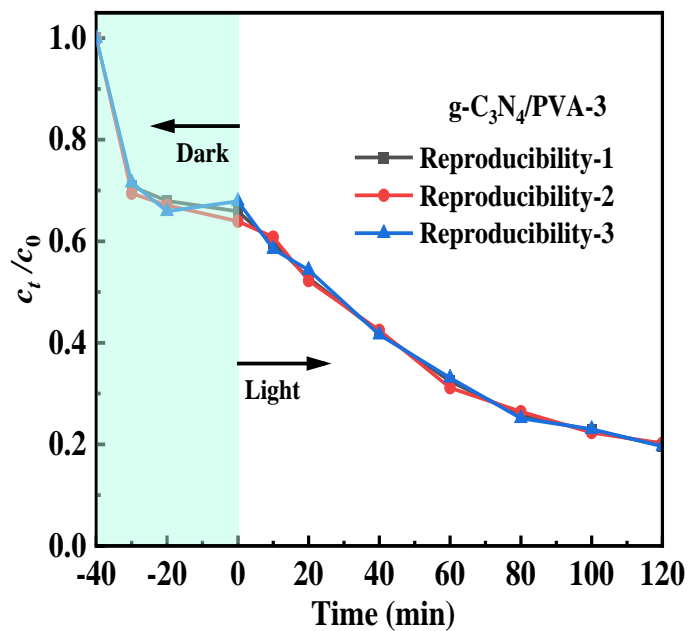


Figure S5. Reproducibility of g-C₃N₄/PVA-3.

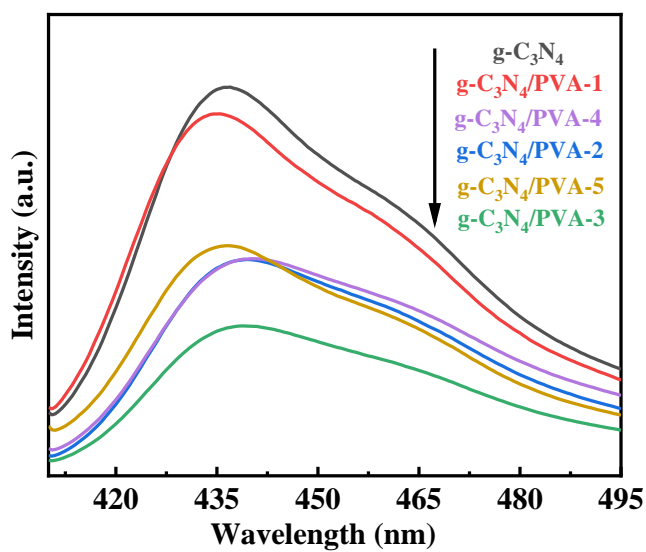


Figure S6. PL spectra of g-C₃N₄ and g-C₃N₄/PVA heterojunction.