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Erratum: Recent advances in ternary Z-scheme photocatalysis on graphitic carbon nitride based photocatalysts

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G-C₃N₄, ternary composite photocatalysts, all-solid-state ternary Z-scheme, direct
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An Erratum on

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by Zhou D, Li D and Chen Z (2024). *Front. Chem.* 12:1359895. doi: [10.3389/fchem.2024.1359895](#)

Due to a production error, in **Table 1**, column 1, the PS I (N) value was given as g-C₃₄
instead of g-C₃N₄. The corrected table appears below.

The publisher apologizes for this mistake. The original version of this article has
been updated.

TABLE 1 Recent progress in g-C₃N₄-based ASS ternary Z-scheme photocatalysis with different electron mediators.

PS I (N)	PS II	Electron shuttle	Light source	Application	Activity	Ref
g-C ₃ N ₄	MoS ₂	Ag	300 W Xe lamp (λ > 420 nm)	degradation of RhB	DE = 100% (60 min)	Lu et al. (2017)
				H ₂ production	104 μmol h ⁻¹ g ⁻¹	
g-C ₃ N ₄	BiVO ₄	Ag	300 W Xe lamp (λ > 350 nm)	Degradation of TC	DE = 90.76% (60 min)	Chen et al. (2017a)
			300 W Xe lamp (λ > 420 nm)		DE = 82.75% (60 min)	
g-C ₃ N ₄	NaTaO ₃	Ag	300 W Xe lamp (λ < 420 nm)	Degradation of TC	DE = 95.47% (60 min)	Tang et al. (2018)
			300 W Xe lamp (λ > 420 nm)		DE = 91.48% (60 min)	
g-C ₃ N ₄	Bi ₃ TaO ₇	Ag	300 W Xe lamp	Degradation of SMZ	DE = 98% (25 min)	Ren et al. (2019)
g-C ₃ N ₄	Ag ₃ PO ₄	Ag	300 W Xe lamp (λ > 420 nm)	Removing of NO	74% (90 min)	Li et al. (2021a)
g-C ₃ N ₄	BiVO ₄	Ag	300 W Xe lamp (λ > 420 nm)	Degradation of CIP	DE = 92.6% (120 min)	Deng et al. (2018)
g-C ₃ N ₄	LaFeO ₃	Ag	300 W Xe lamp (λ > 420 nm)	Degradation of MB	DE = 98.97% (90 min) DE = 92.93% (120 min)	Zhang et al. (2021a)
				Degradation of TC		
g-C ₃ N ₄	AgVO ₃	Ag	300 W Xe lamp (λ > 400 nm)	Degradation of RhB	DE = 100% (12 min)	Liu et al. (2019)
				<i>E. coli</i> inactivation	3.05 log (100 min)	
g-C ₃ N ₄	AgCl	Ag	300 W Xe lamp (λ > 420 nm)	Degradation of Rh B	DE = 100% (60 min)	Bao and Chen (2016)
				Degradation of MO	DE = 99% (90 min)	
g-C ₃ N ₄	Ag ₂ CrO ₄	Ag	500 W Xe lamp	Degradation of MO	DE = 78% (30 min)	Yu et al. (2021)
g-C ₃ N ₄	TiO ₂	Ag	500 W Xe lamp	Reduction of U (VI)	99% (30 min)	Liu et al. (2022)
g-C ₃ N ₄	Zn _{0.5} Cd _{0.5} S	Au	300 W Xe lamp (λ > 420 nm)	Reduction of CO ₂ for CH ₃ OH evolution	1.31 μmol h ⁻¹ g ⁻¹	Madhusudan et al. (2021)
g-C ₃ N ₄	CdS	Au	300 W Xe lamp (λ > 455 nm)	H ₂ production reduction of CO ₂	277 μmol h ⁻¹ (4 h)	Zheng et al. (2015b)
			300 W Xe lamp (λ > 420 nm)		85%	
g-C ₃ N ₄	ZnIn ₂ S ₄	Au	300 W Xe lamp	Removal of NO	59.7%	Zhang et al. (2020a)
				CO production	242.3 μmol h ⁻¹ g ⁻¹	
g-C ₃ N ₄	AgCl	Au	200 W Xe lamp (λ > 420 nm)	Degradation of Rh B	DE = 93.1% (25 min)	Zhang et al. (2021b)
g-C ₃ N ₄	TiO ₂ (P25)	Au	150 W Hg Lamp	H ₂ production	419 μmol h ⁻¹ g ⁻¹	Jiménez-Calvo et al. (2020)
g-C ₃ N ₄	Cu ₂ ZnSnS ₄	Pt	400 W Xe lamp (λ > 420 nm)	Reduction of CO ₂ for CO/CH ₄ evolution	17.351/7.961 μmol h ⁻¹ g ⁻¹	Raza et al. (2020)
g-C ₃ N ₄	AgVO ₃	Pt	300 W Xe lamp (λ > 420 nm)	H ₂ production	10,444 μmol h ⁻¹ g ⁻¹	Qureshi et al. (2023)
g-C ₃ N ₄	BiVO ₄	Pt	300 W Xe lamp (λ > 420 nm)	Degradation of MB	DE = 100% (70 min)	Si et al. (2020)
				Degradation of BPA	DE = 92.7% (130 min)	
				H ₂ production	72 μmol h ⁻¹ g ⁻¹	
g-C ₃ N ₄	WO ₃	C	500 W Xe lamp (λ > 420 nm)	Degradation of TC	DE = 75% (60 min)	Zhao et al. (2021)

DE, degradation efficiency; E, efficiency; Rh B, Rhodamine B; TC, tetracycline; SMZ, sulfamethoxazole; NO, nitric oxides; CIP, ciprofloxacin; MB, methylene blue; MO, methyl orange; BPA, Bisphenol A; 2,4-DCP, 2,4-dichlorophenol; TC-HCl, Tetracycline Hydrochloride; CR, congo red; GO, graphene oxide; RGO, reduced graphene oxide; AFB₁, Aflatoxins B₁.