

Table 1

Conditions for preparation of S- or N-doped TiO₂ loaded with Fe₂O₃ nanoparticles

Photo-catalyst	Surface area (m ² g ⁻¹)	Theoretical amount of adsorbed Fe ₂ O ₃ (wt%)	Conditions for preparation		Actual amount of adsorbed Fe ₂ O ₃ (wt%)
			TiO ₂ (g)	FeCl ₃ (g)	
S-doped TiO ₂	126.1	0.5	3.00	0.0260	0.37
		1.0	3.17	0.0551	0.90
		5.0	3.04	0.2647	4.22
N-doped TiO ₂	90.5	0.5	3.03	0.0272	0.36
		1.0	2.98	0.0542	0.92
		5.0	2.98	0.2697	4.40

Fig. 1

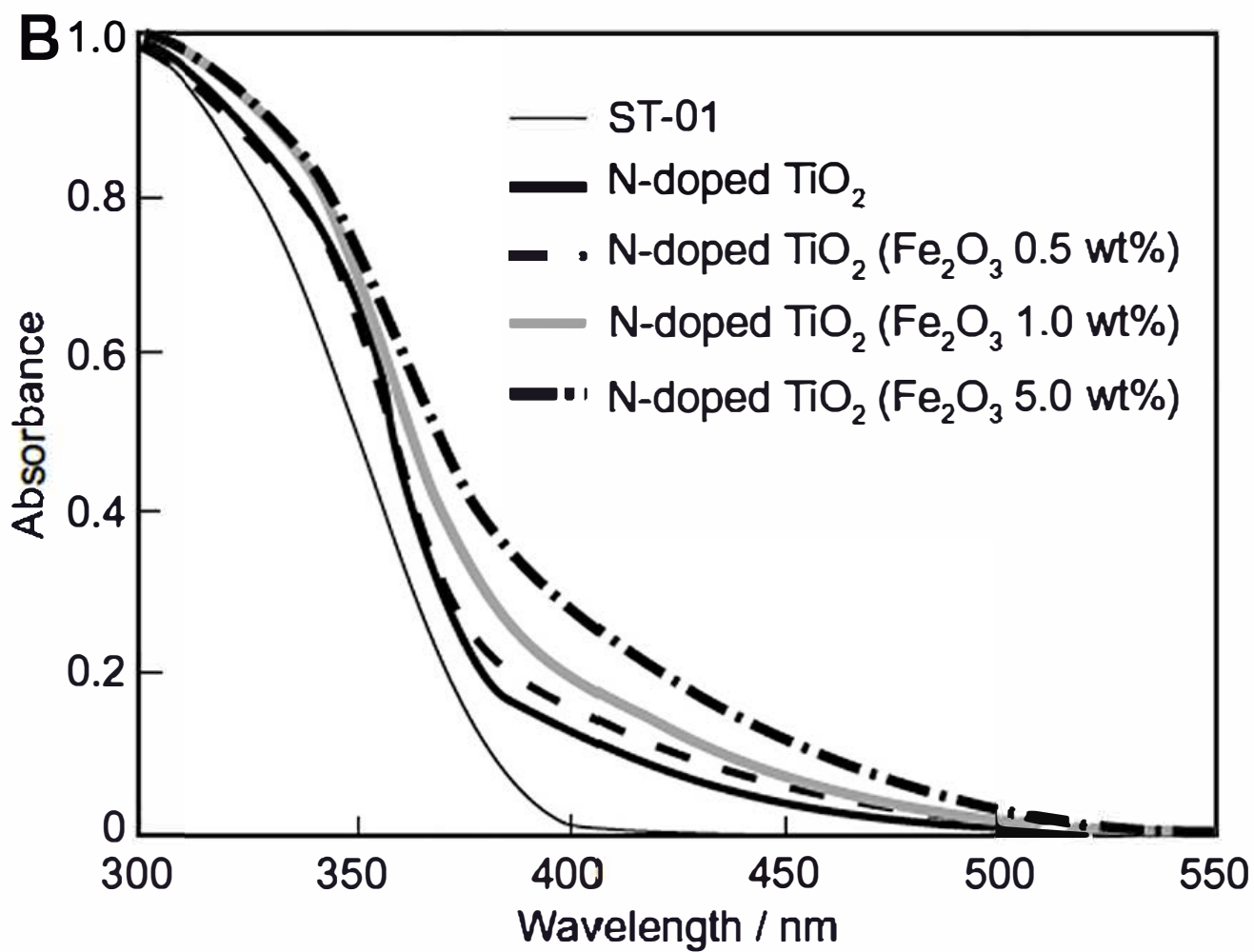
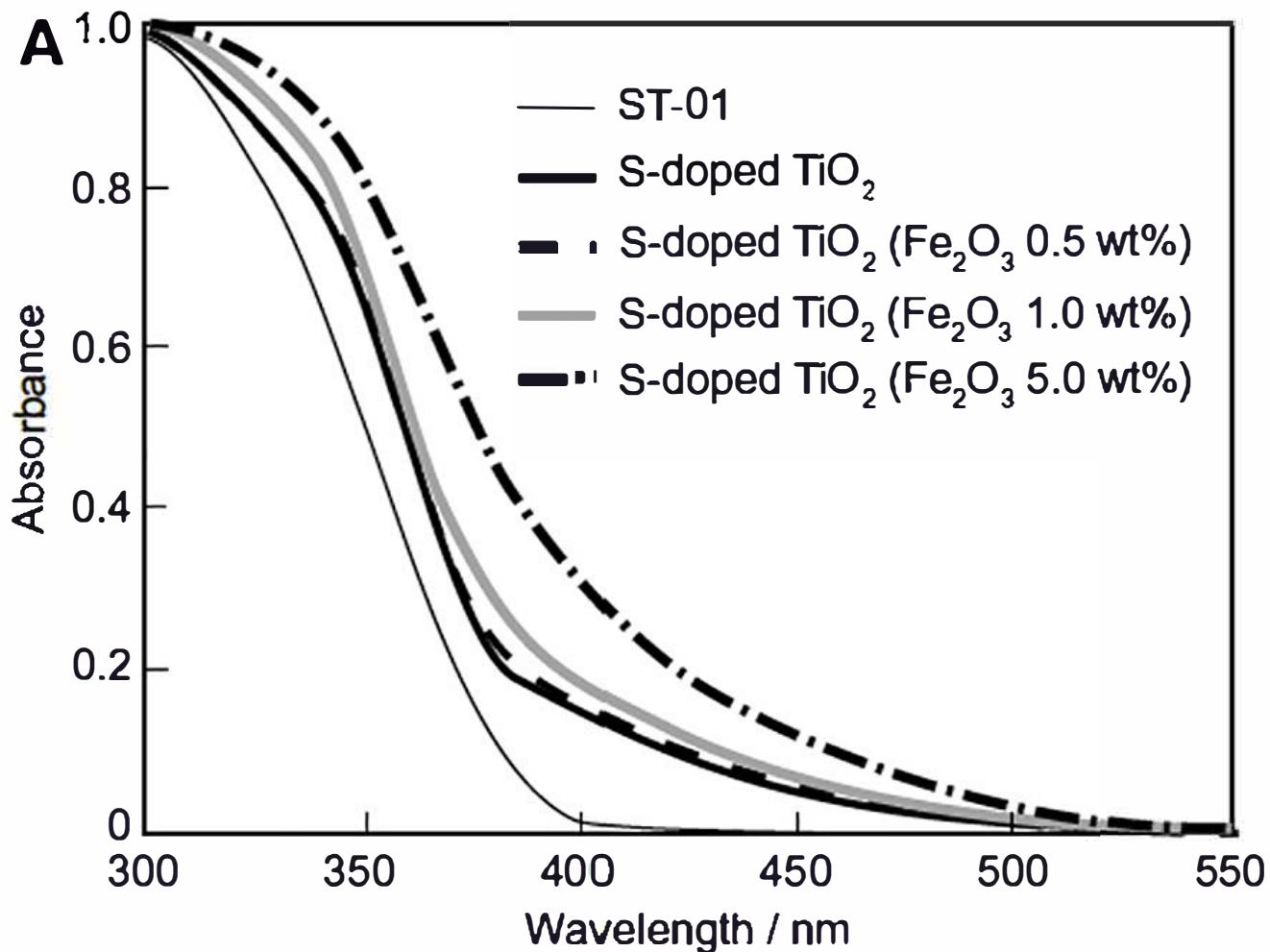


Fig. 2

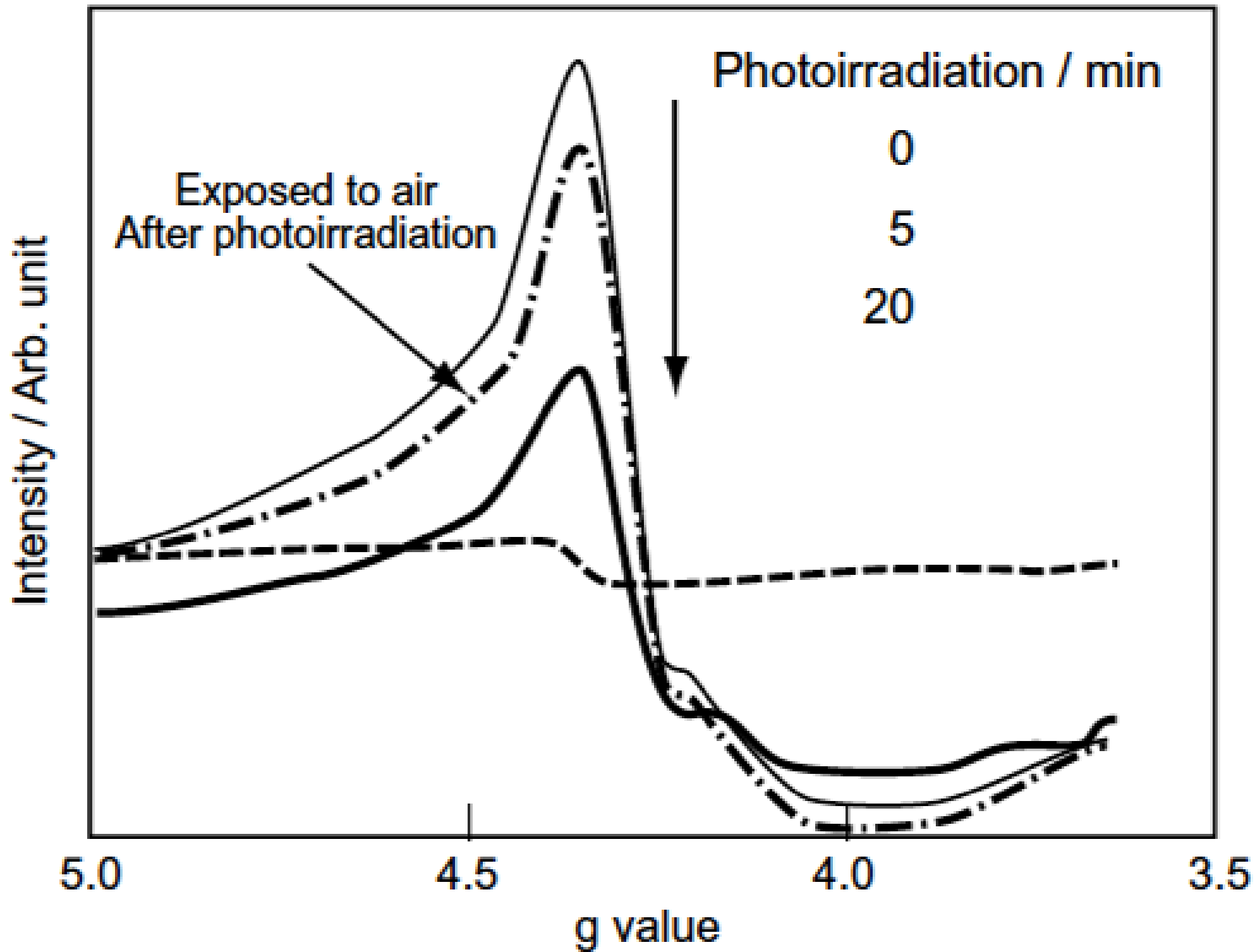


Fig. 3

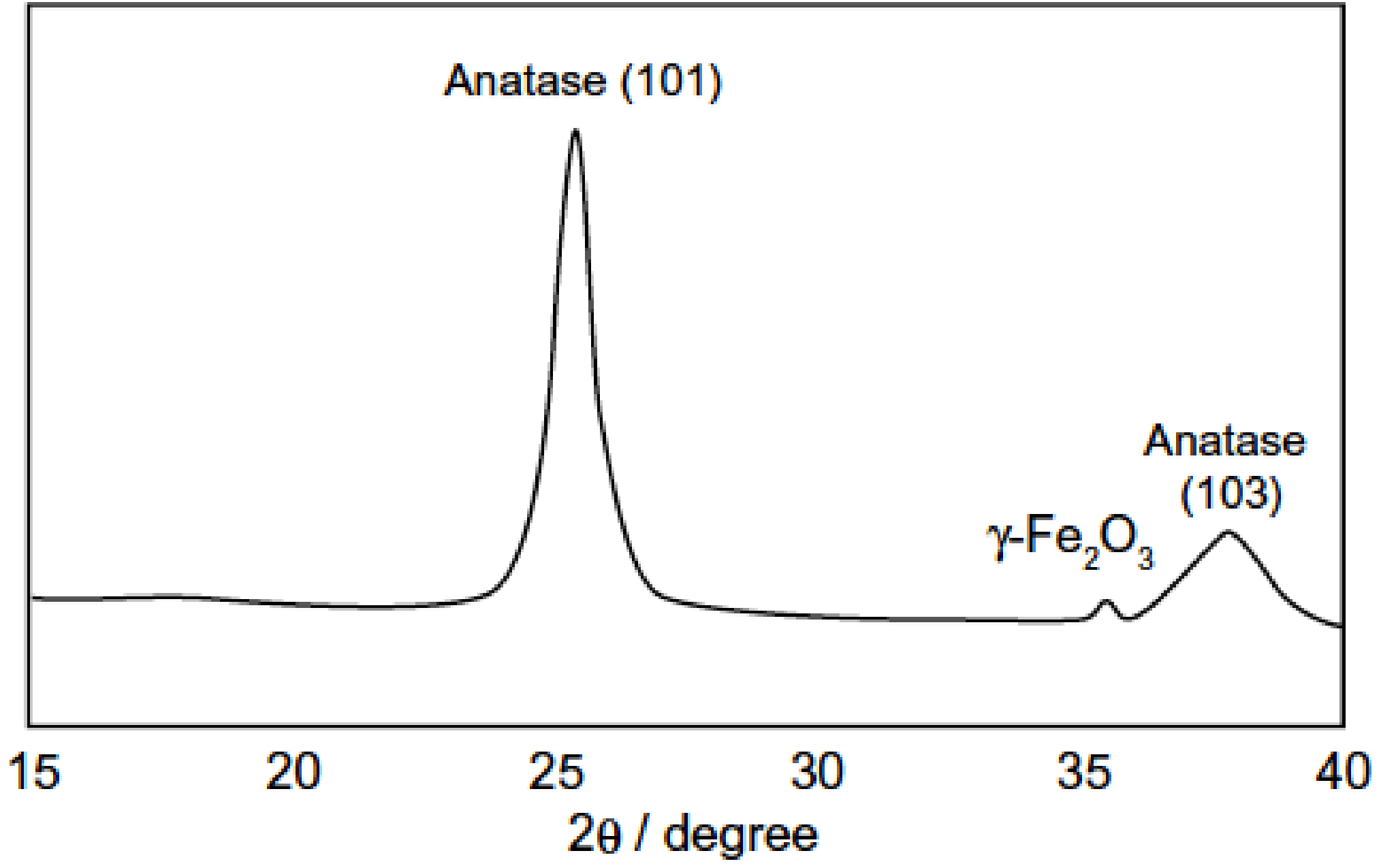


Fig. 4

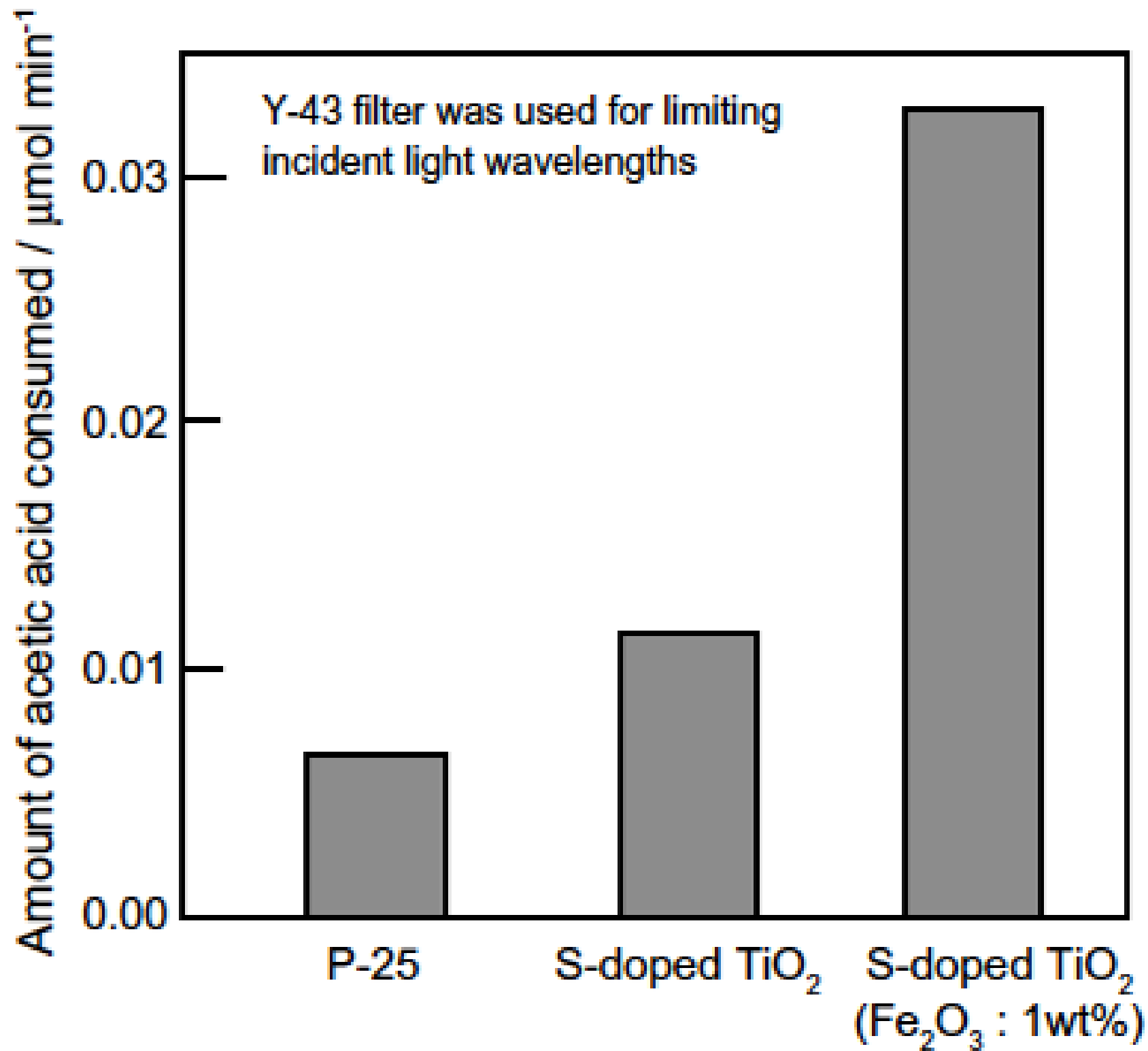


Fig. 5

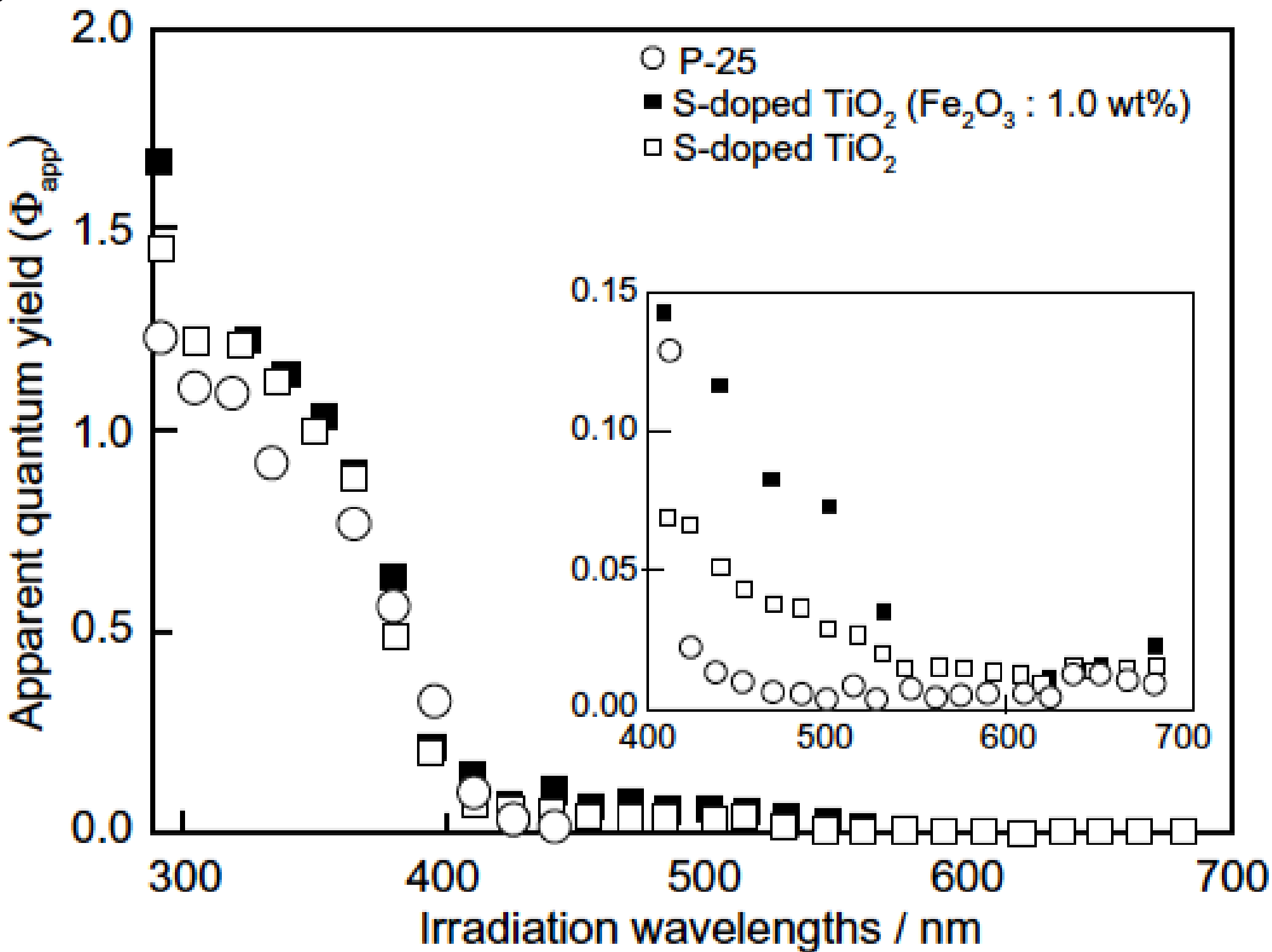


Fig. 6

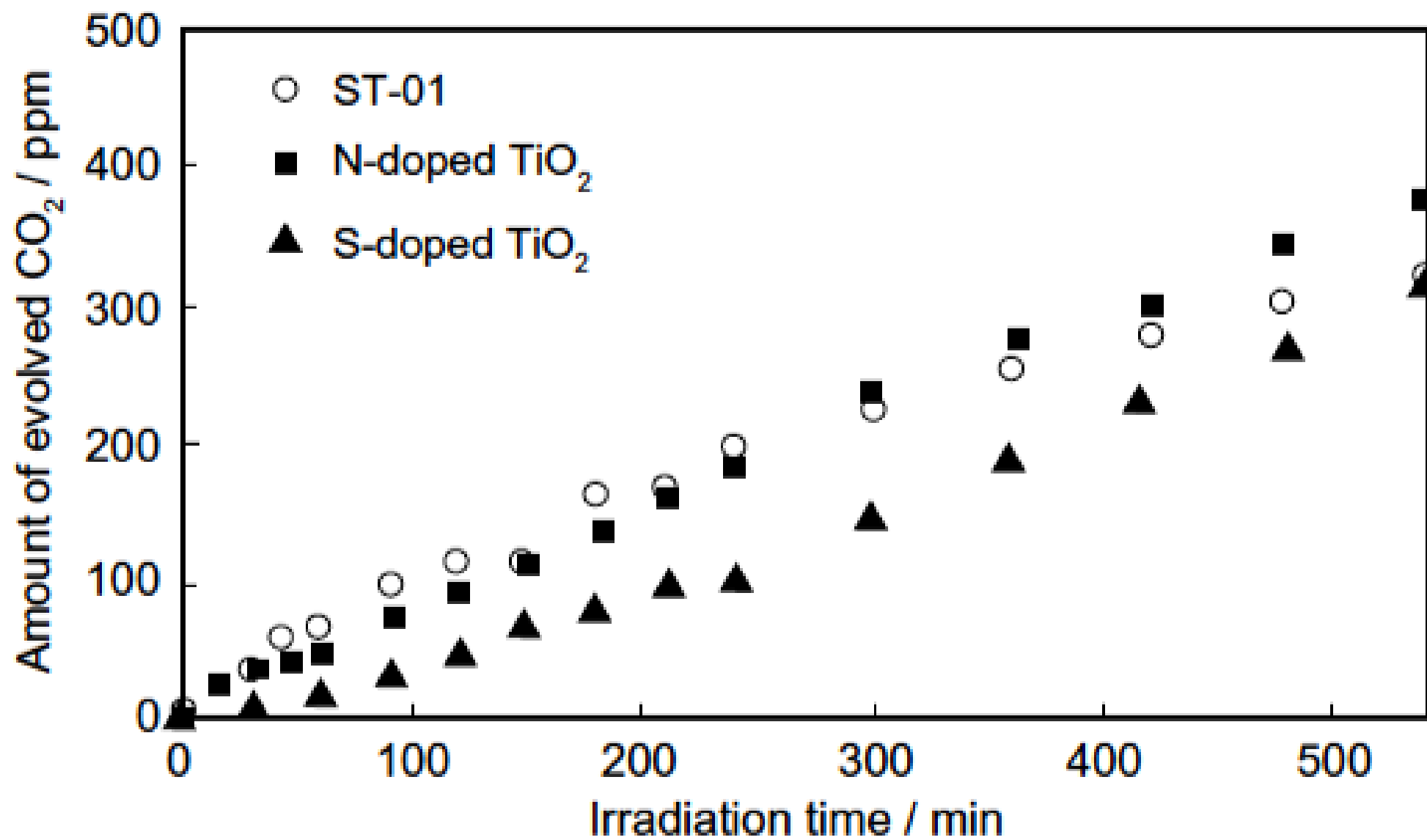


Fig. 7

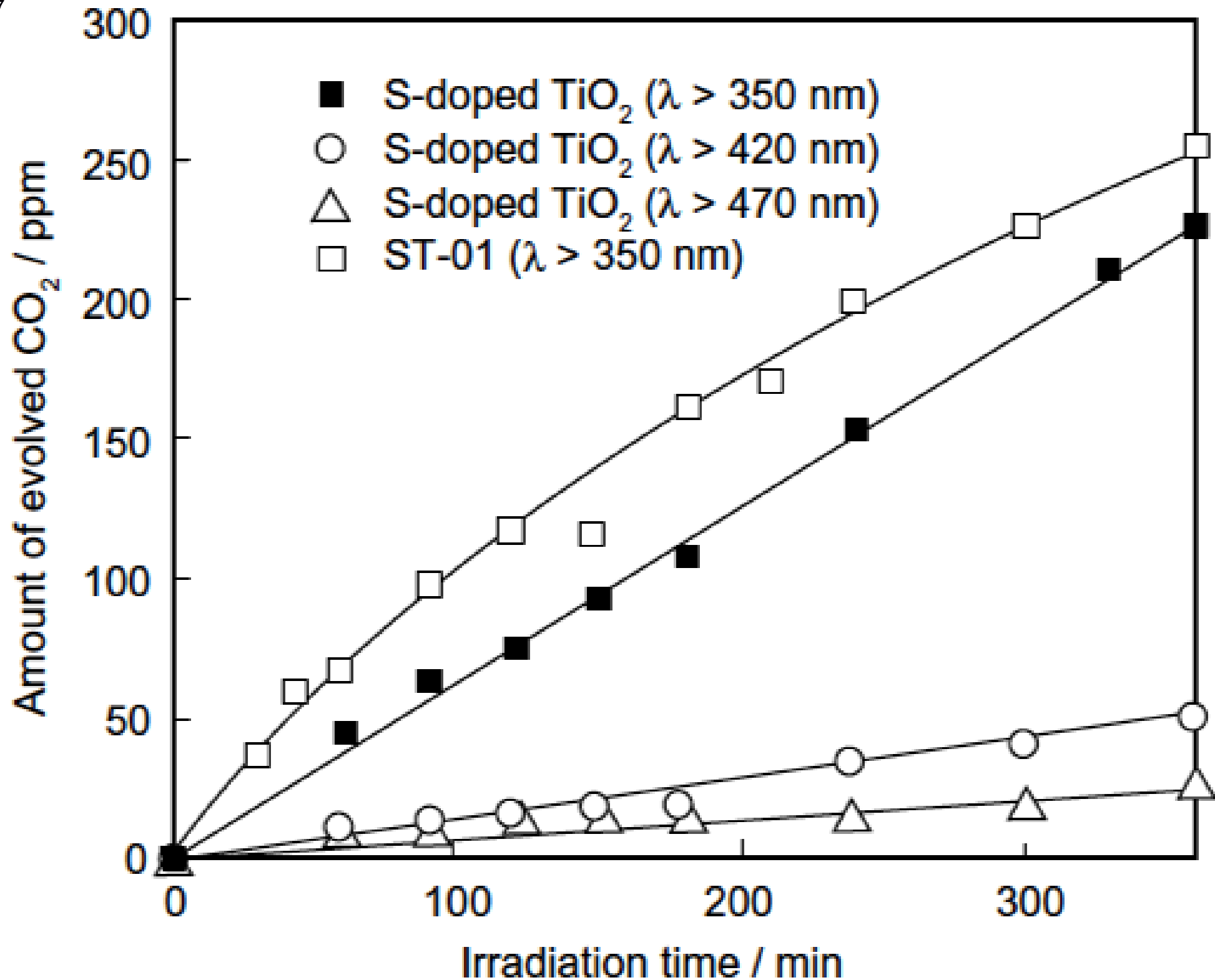


Fig. 8

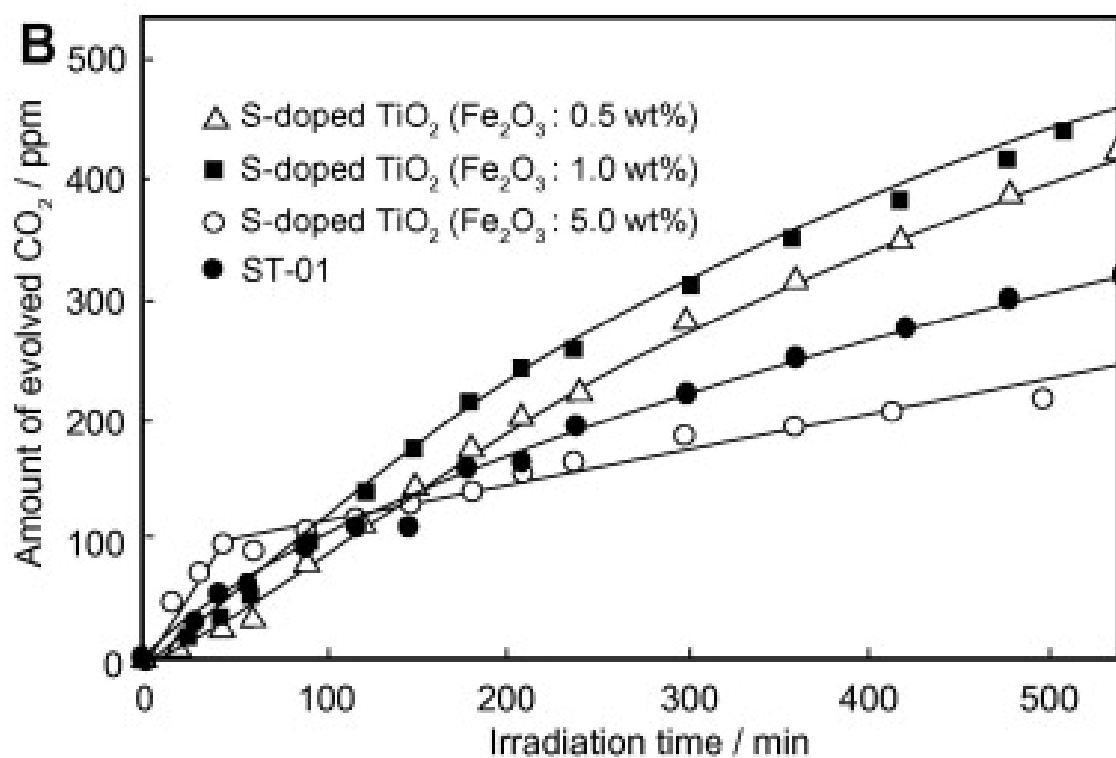
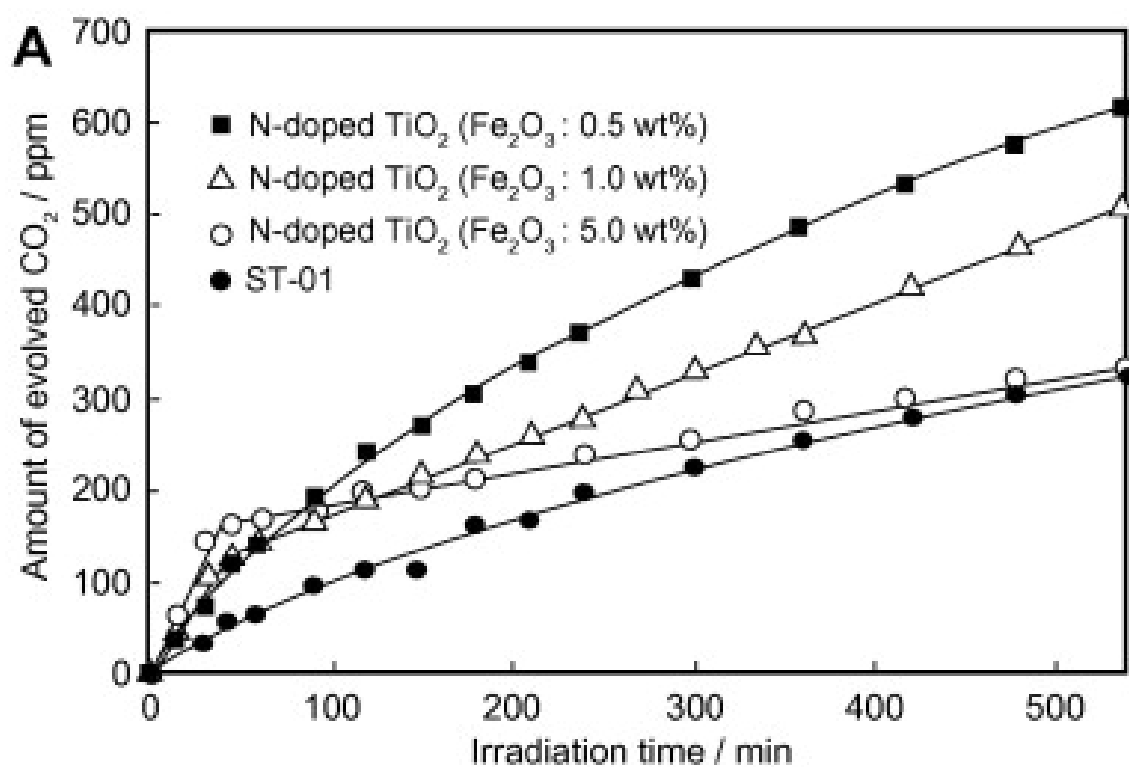


Fig. 9

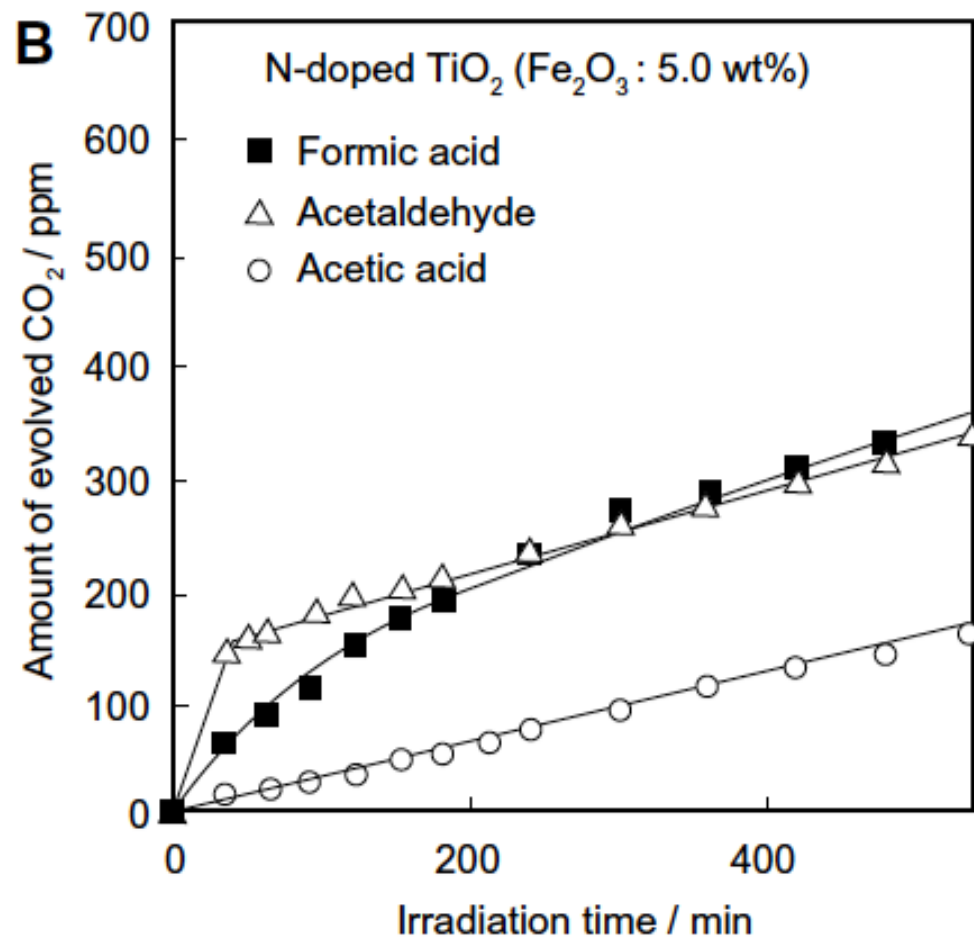
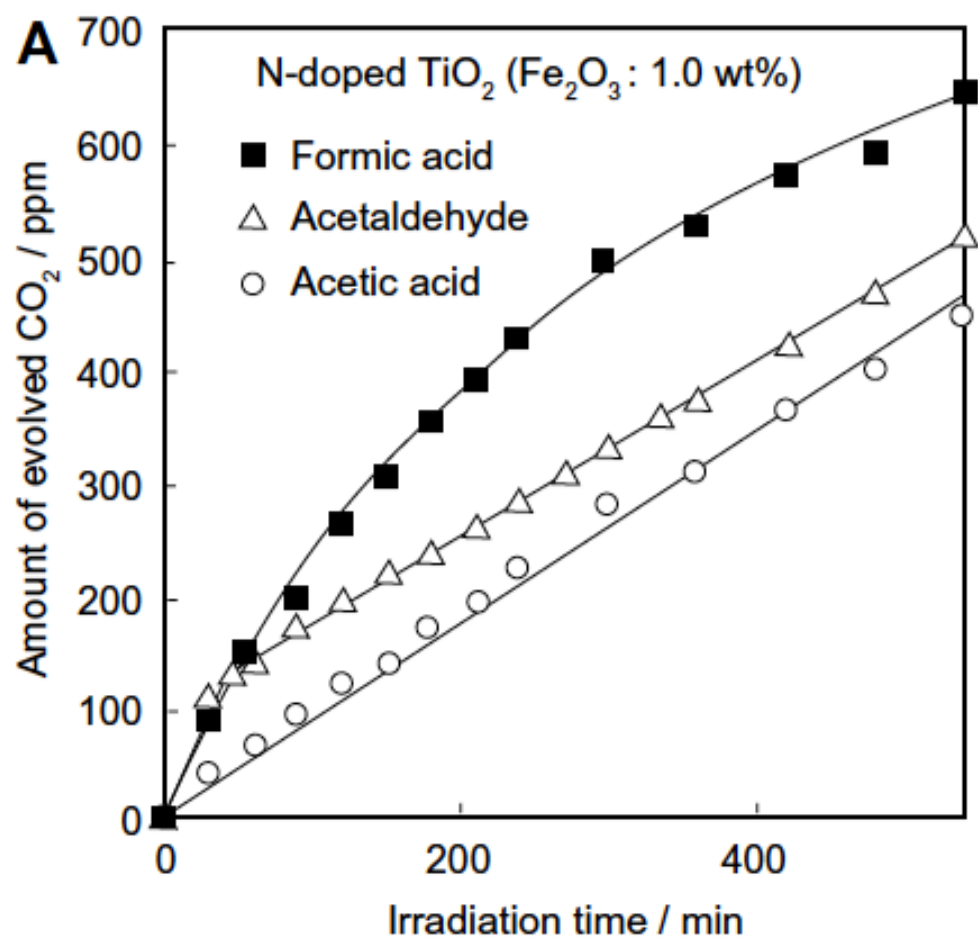


Fig. 10

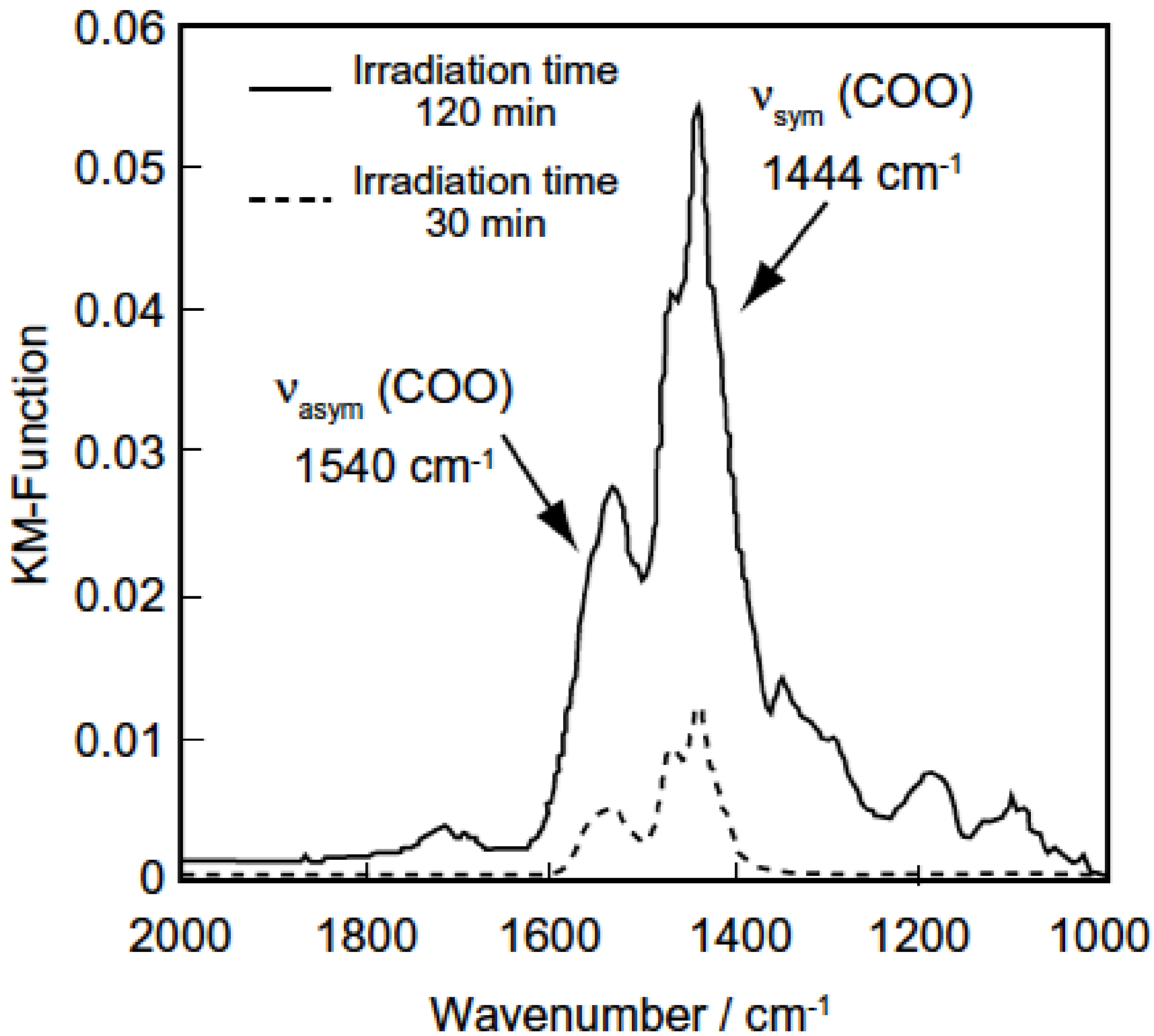


Fig. 11

