

Supplementary Section

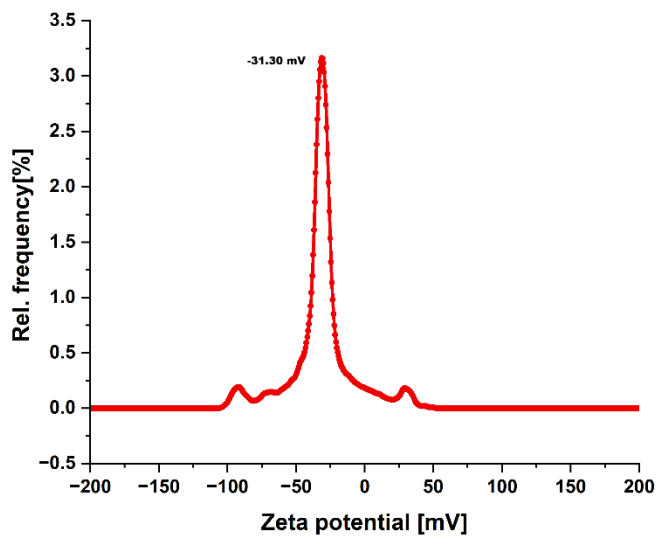


Fig. S1 Zeta potential plot of Bi₇O₉I₃/g-C₃N₄/ZnO

Table S1 Parameters of fitted equivalent circuit of EIS spectra.

Photocatalyst	R _s (Ω)	R _{ct} (Ω)	Trend description
Bi ₇ O ₉ I ₃ /g-C ₃ N ₄ /ZnO	~12–13	14.82	Smallest R _{ct} , fastest charge transfer
g-C ₃ N ₄	~12–13	40.09	Highest R _{ct} , slowest charge transfer
ZnO	~13–14	30.11	medium R _{ct}

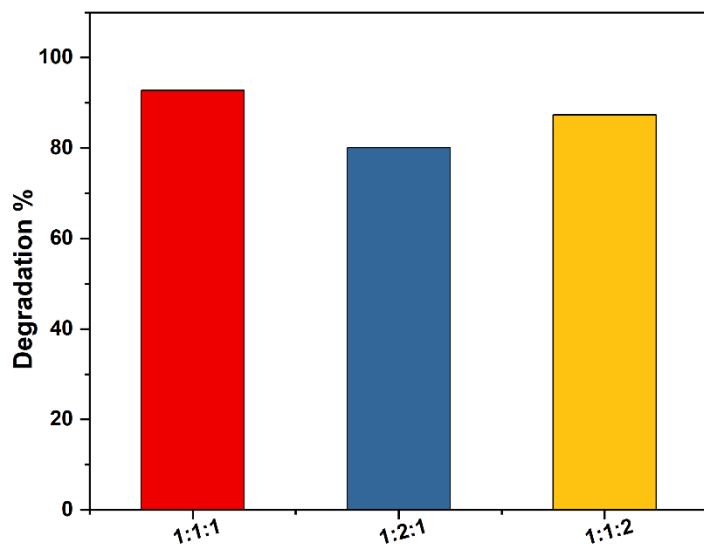


Fig. S2 Methyl orange degradation using $\text{Bi}_7\text{O}_9\text{I}_3/\text{g-C}_3\text{N}_4/\text{ZnO}$ catalyst synthesised in different ratios.