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Supplementary Files

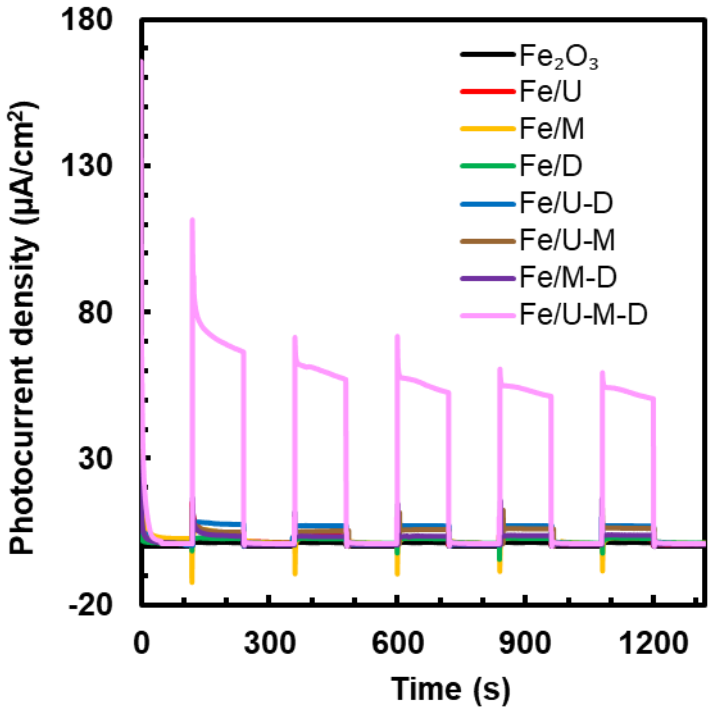

Figure S1. Chronoamperometry responses of α-Fe_2O_3 and α-Fe_2O_3/g-C_3N_4 photoanodes with various hybrid precursor compositions under intermittent light irradiation (2 min dark–2 min light cycles, repeated five times), presented in linear scale to show the actual photocurrent density profiles of all samples.

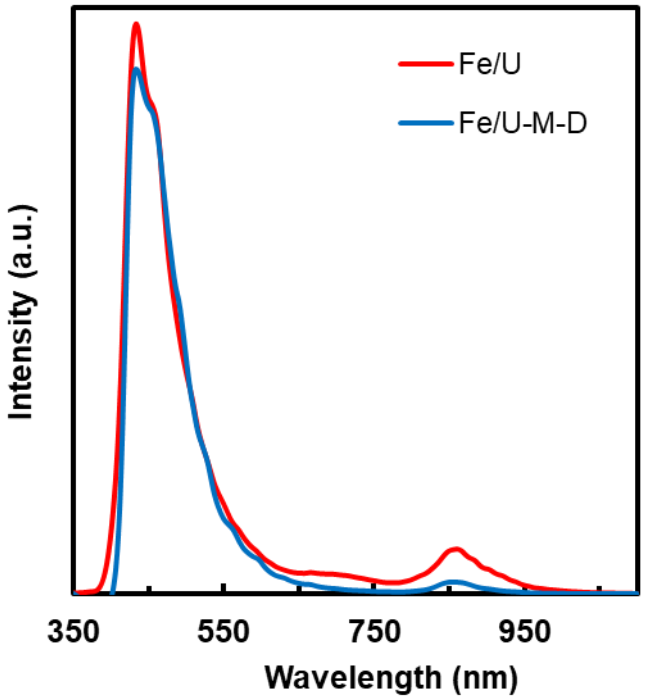

Figure S1. Photoluminescence (PL) spectra of α-Fe_2O_3/g-C_3N_4 photoanodes synthesized using single precursor (Fe/U) and hybrid precursor (Fe/U–M–D), recorded at an excitation wavelength of 325 nm, illustrating reduced emission intensity for the hybrid system, indicative of suppressed electron–hole recombination.

Table S1. g-C3N4 Crystal Size with Hybrid Precursors.

Sample	2θ	FWHM	L (nm)
CN/D	27.24	0.81	32.21
CN/M	27.31	0.61	48.86
CN/U	27.81	1.09	34.28
CN/M-D	27.52	1.207	17.79
CN/U-M	27.47	1.349	15.09
CN/U-D	27.46	1.334	15.12
CN/U-M-D	27.38	1.406	13.05