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Supplemental Informations

Fig.S1 EDS spectrum of Bi₃TaO₇-NA (a) and Bi₃TaO₇-A (b)
Fig.S2 EDS spectrum of Bi₃TaO₇-A with different annealing temperature 650 °C (a),
700 °C (b) and 750 °C (c)
Fig.S3 Photocurrent density-time curves of Bi₃TaO₇-A
Fig.S4 The XPS spectrum of Bi₃TaO₇-NA

Tab.S1 Equivalent-circuit fitting parameters of Bi_3TaO_7 -NA and Bi_3TaO_7 -A (650 °C, 700 °C and 750 °C)



Fig.S1 EDS spectrum of Bi₃TaO₇-NA (a) and Bi₃TaO₇-A (b)



Fig.S2 EDS spectrum of Bi_3TaO7-A with different annealing temperature 650 °C (a), 700 °C (b) and 750 °C (c)



Fig.S3 Photocurrent density-time curves of Bi₃TaO₇-A



Fig.S4 The XPS spectrum of Bi₃TaO₇-NA

700 C and 750 C)				
System	Series resistance, R _s (Ω)	Resistance, $R_t(\Omega)$	Frequency power	CPE, Yo (× 10 ⁻⁶ F)
Bi ₃ TaO ₇	26.07	3598	0.9335	12.43
Bi ₃ TaO ₇ -A 650 °C	23.63	1340	0.9549	17.79
Bi ₃ TaO ₇ -A 700 °C	38.86	1168	0.9099	13.19
Bi ₃ TaO ₇ -A 750 °C	21.82	1290	0.9455	21.04

Tab.S1 Equivalent-circuit fitting parameters of Bi_3TaO_7 -NA and Bi_3TaO_7 -A (650 °C, 700 °C and 750 °C)