

Supplementary Materials

Green synthesis of Pt-doped TiO₂ nanocrystals with exposed (001) facets and mesoscopic void space for photo-splitting of water under solar irradiation

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Figure S1. Emission Spectrum of solar simulator (Newport 94023A Oriel Sol3A) used for photocatalytic activity test of the Pt/TiO₂ materials

	400-500	500-600	600-700	700-800	800-900	900-1100	400-1100
Ideal Match %	18.40 %	19.90 %	18.40 %	14.90 %	12.50 %	15.90 %	100.00 %
Upper Limit %	23.00 %	24.88 %	23.00 %	18.63 %	15.63 %	19.88 %	
Lower Limit %	13.80 %	14.93 %	13.80 %	11.18 %	9.38 %	11.93 %	
Sol 3A %	22.50 %	22.78 %	19.68 %	11.30 %	10.57 %	16.00 %	

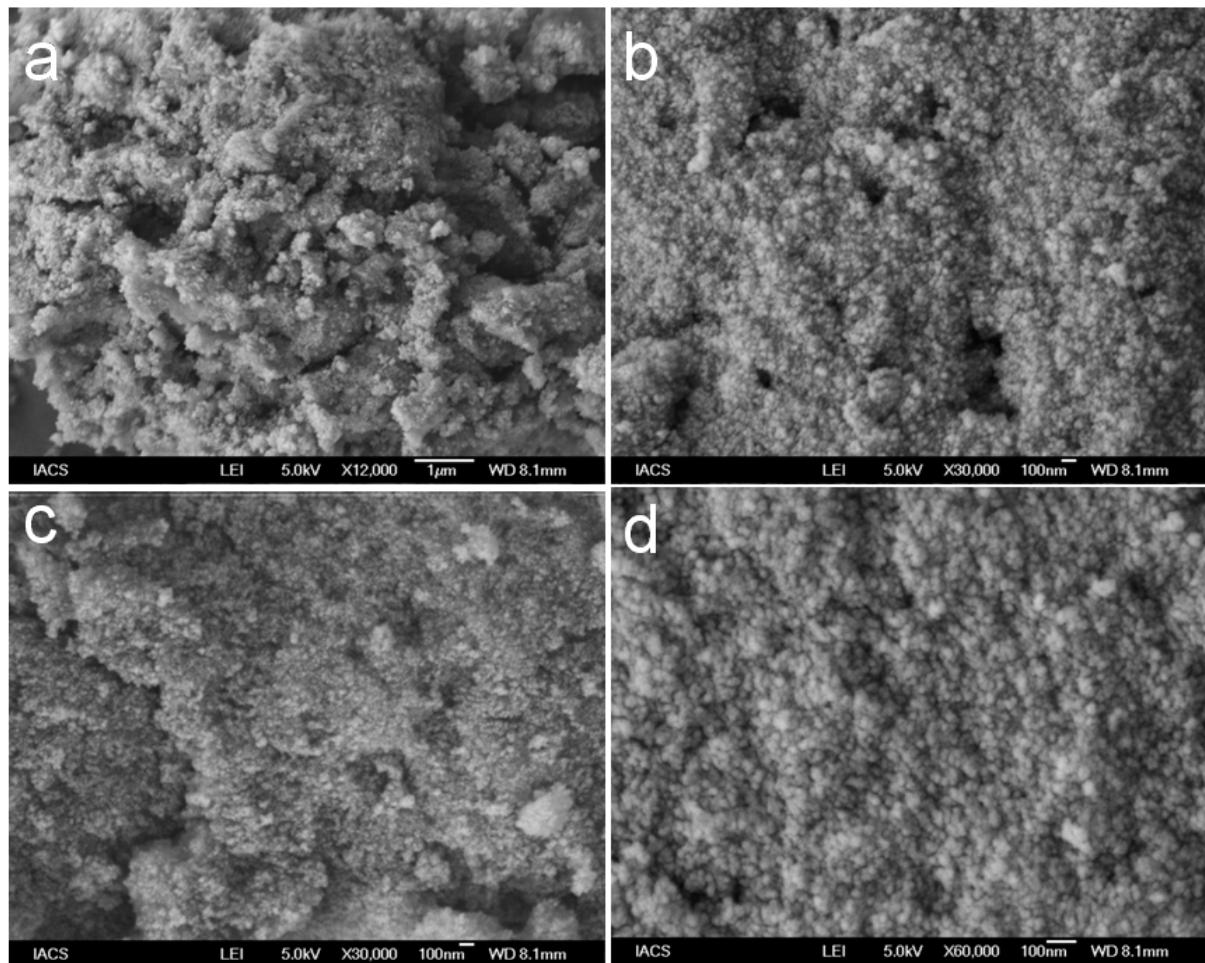


Fig. S2. FE-SEM images of IL-MTO-1C (a), IL-MTO-1C-06 (b) IL-MTO-1C-13 (c), IL-MTO-1C-26 (d).

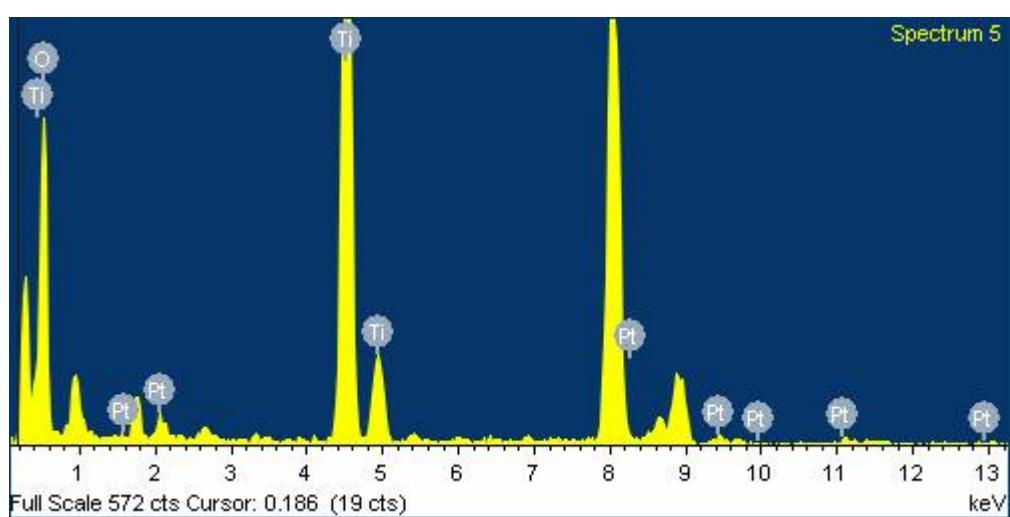


Fig. S3. EDS pattern of IL-MTO-1C-26