

In₂O₃ cube: Synthesis, characterization and photocatalytic properties

Sheng-qi Guo,[†] Xiao Zhang,[†] Zhen-wei Hao,[†] Guan-dao Gao,^{*,†} Guang Li,^{*,‡} Lu Liu^{*,†}

[†] *Tianjin Key Laboratory of Environmental Remediation and Pollution Control, Nankai University, Tianjin 300071, China.*

[‡] *School of Physics and Materials Science, Anhui University, Hefei, Anhui 230039, China.*

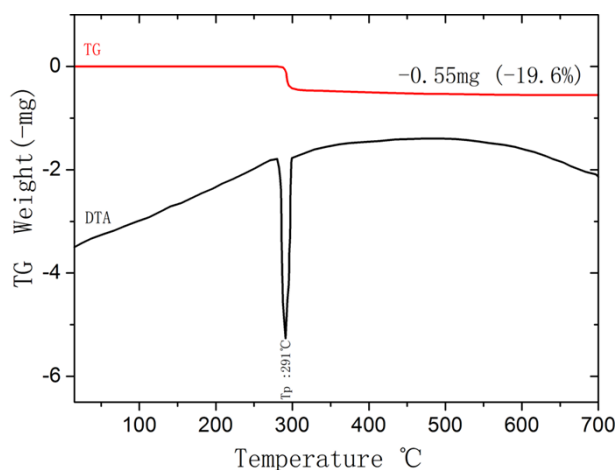


Figure S1. DSC-TG pattern of the as-synthesized In(OH)₃—InOOH precursor.

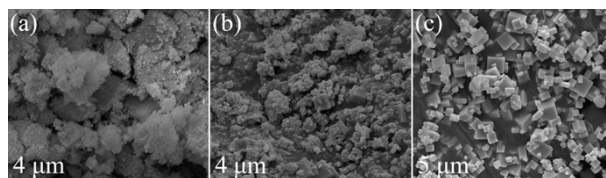


Figure S2. SEM images of the In(OH)₃-InOOH precursor prepared for (a) 80°C, (b) 120°C, (c) 180°C.

CE	R_s (Ω cm^{-2})	R_1 (Ω cm^{-2})	R_2 (Ω cm^{-2})	R_3 (Ω cm^{-2})	CPE1	CPE2	CPE3
Cube In_2O_3	4.698	0.314	1.827	0.364	1.215	0.863	0.967
Commercial In_2O_3	5.262	0.362	21.87		1.138	0.816	

Table S1. Electrochemical Performance Parameters for Different CEs.