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Supporting information



Figure S1. SEM images of the composites structures of SnO_2 nanoparticles and tin titanate nanowires obtained by hydrothermal treatment of (a, b) 100mg, (c, d) 50mg and (e, f) no H-titanate nanowires in aqueous $SnCl_2$ precursor solution.



Figure S2. TEM images of anatase TiO_2 obtained by hydrothermal treatment of H-titanate nanowires without presence of $SnCl_2$ in the precursor solution.



Figure S3. XRD patterns of (a) anatase TiO_2 obtained by sintering H-titanate nanowire precursors at 800°C for 6h and (b) rutile SnO_2 and Sn-doped TiO_2 obtained by by sintering tin titanate nanowires coupled with SnO_2 nanoparticles at 600°C for 6h.



Figure S4. XPS spectra of (a) SnO_2 /tin titanate nanowires (200 mg H-titanate precursor) and (b) H-titanate nanowires.



Figure S5. N_2 adsorption-desorption isotherms of porous SnO_2 spheres (A) and SnO_2/tin titanate nanowires with different H-titanate nanowires introduced (B: 20 mg; C: 200 mg).