Supporting Information

For

One-pot Synthesis of N-F-Cr-doped Anatase TiO₂ Microspheres with All-(001)

Surface for Enhanced Solar Absorption

by

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Fig. S1 EDS analysis of the thermal sprayed TiN/Ti coating.



Fig. S2 (a) low- and (b) high-magnification FE-SEM images of TiN/Ti after hydrothermal treatment in 0.4 mass% HF with the additive of 20 mg Cr.



Fig. S3 (a) low- and (b) high-magnification FE-SEM images of Ti plate after hydrothermal treatment in 0.8 mass% HF with the additive of 10 mg Cr.





Fig. S4 EDS spectra of TiO_2 crystals derived by hydrothermal treatment of TiN/Ti at 180 °C for 12 h in 0.05 and 0.40 mass% HF with the additive of 10 mg Cr.