

Supplementary Material

Supplementary Information-1 (SI-1); XPS narrow scan spectra of O1s of pure TiO₂ revealed that the binding energy of O1s of pure TiO₂ was 530.1 eV.

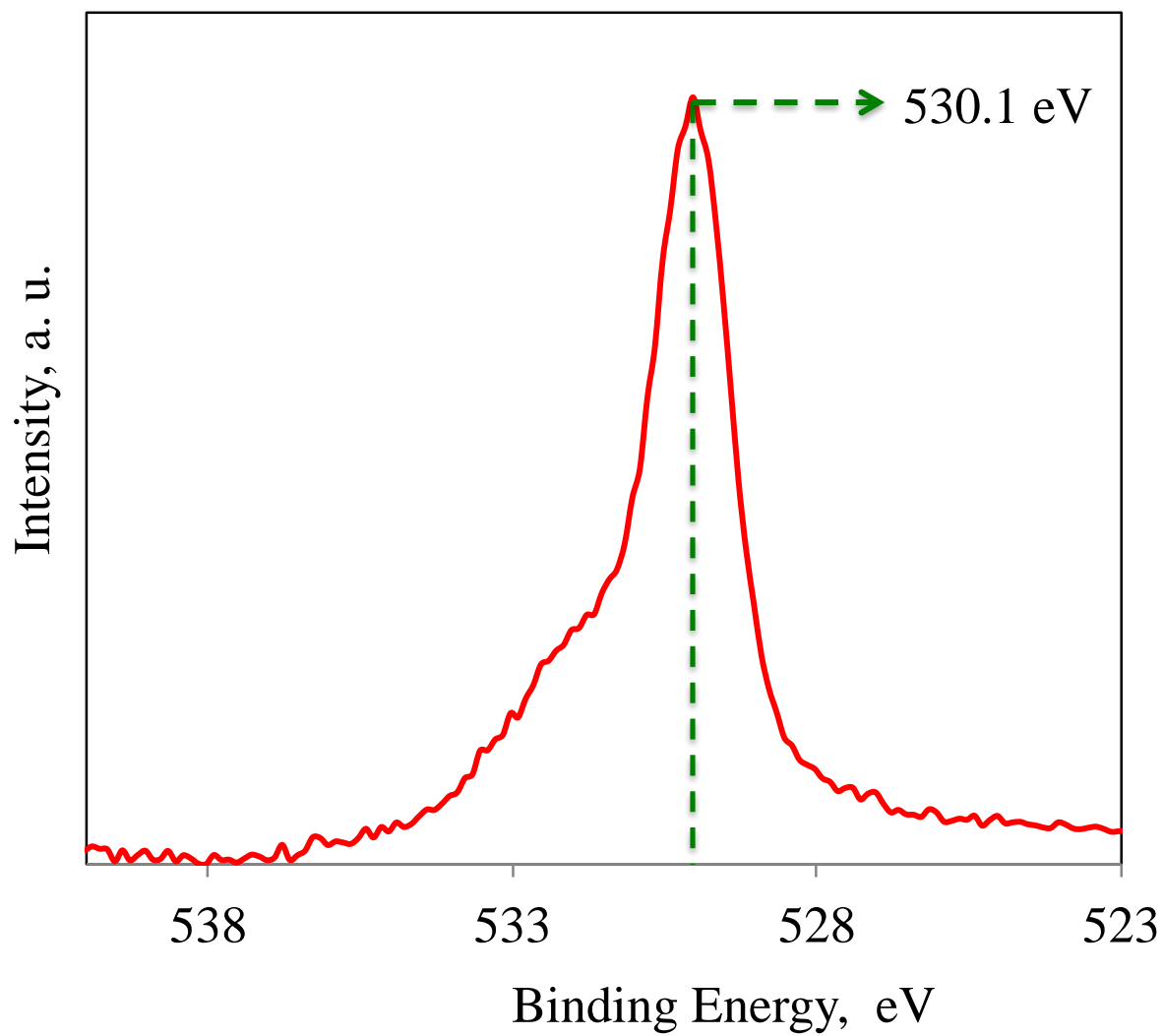


Fig. SI-1 Narrow scan spectra of O 1s of pure TiO₂.

Supplementary Information-2 (SI-2): SEM and TEM images of TiO₂ coated SiO₂ nanocomposite particles with high titanium-tetra-n-butoxide (TBOT) loading indicated the significant free TiO₂ nanoparticle formation.

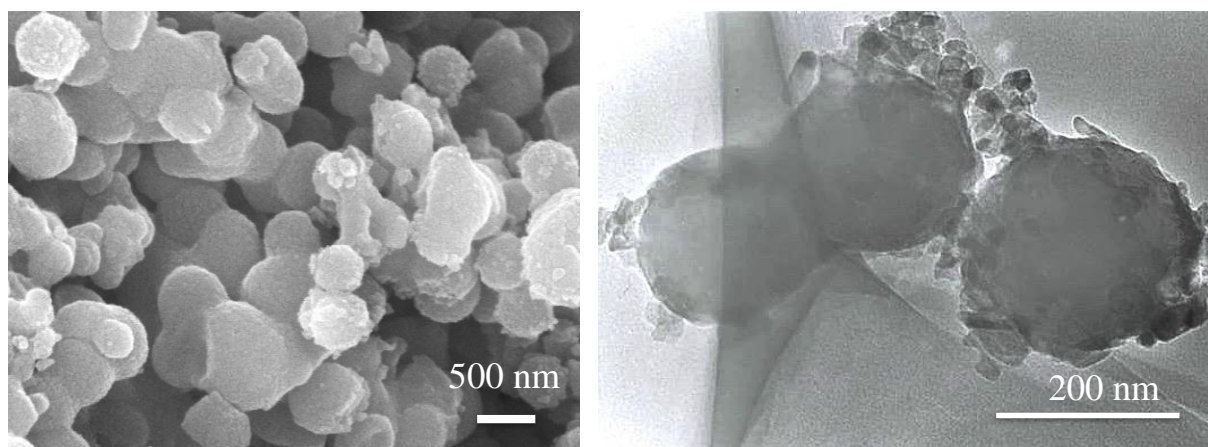


Fig. SI-2 SEM (left) and TEM (right) images of SiO₂-TiO₂-5 sample.