

Supplementary Materials

Photocatalytic Hydrogen Production by the Sensitization of Sn(IV)-Porphyrin Embedded in a Nafion Matrix Coated on TiO₂

Sung Hyun Kim and Hee-Joon Kim *

Department of Chemistry and Bioscience, Kumoh National Institute of Technology, Gumi 39177, Korea; kashik@naver.com

* Correspondence: hjk@kumoh.ac.kr; Tel.: +82-54-478-7822

List of contents:

Figure S1. Micrographs for platinized TiO₂ (**1**) showing (a) TEM image, (b) EDS spectrum, and (c) elemental mapping images by STEM for platinum (left, red), titanium (center, green) and oxygen (right, blue).

Figure S2. Micrographs for Nafion-coated Pt-TiO₂ (**2**) showing (a) TEM image, and (b) EDS spectrum.

Figure S3. FT-IR spectra of platinized TiO₂ (**1**) and Nafion-coated Pt-TiO₂ (**2**).

Figure S4. Micrographs for SnP⁶⁺-embedded Nafion/Pt-TiO₂ (**3**) showing (a) TEM image, and (b) EDS spectrum.

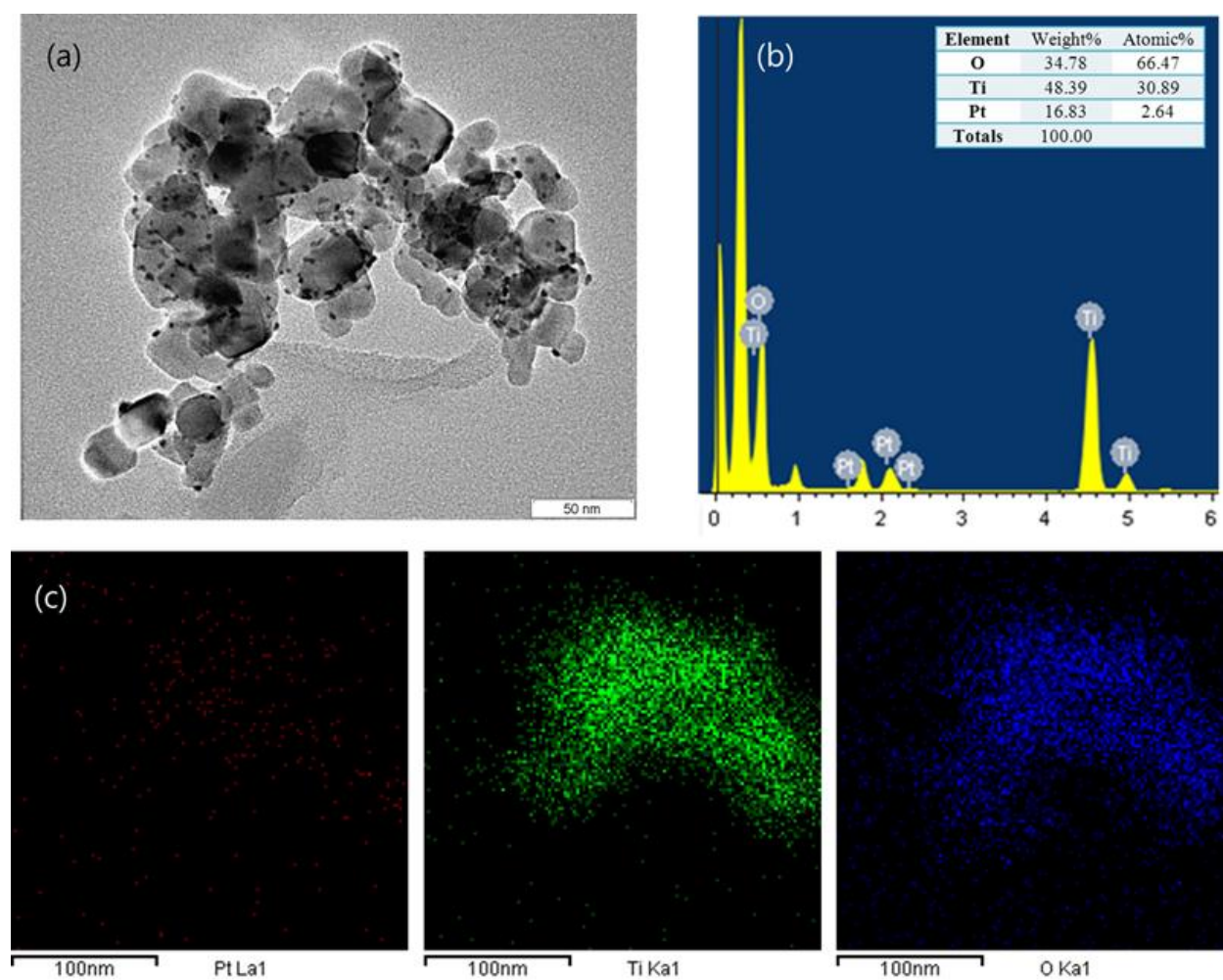


Figure S1. Micrographs for platinumized TiO_2 (**1**) showing (a) TEM image, (b) EDS spectrum, and (c) elemental mapping images by STEM for platinum (left, red), titanium (center, green) and oxygen (right, blue).

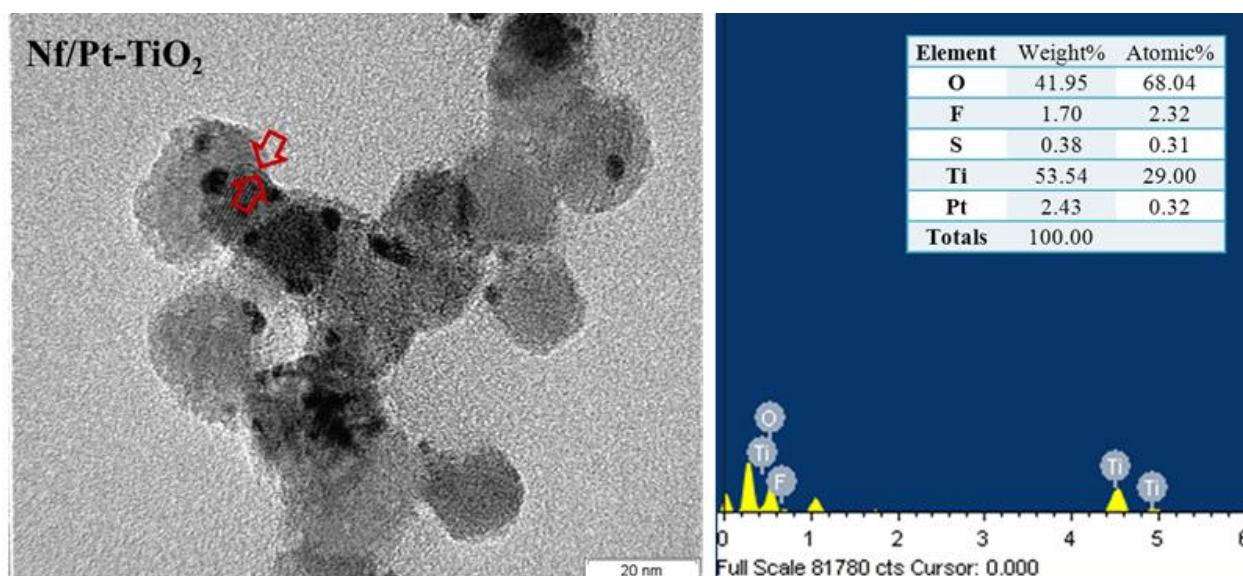


Figure S2. Micrographs for Nafion-coated Pt-TiO₂ (2) showing (a) TEM image, and (b) EDS spectrum.

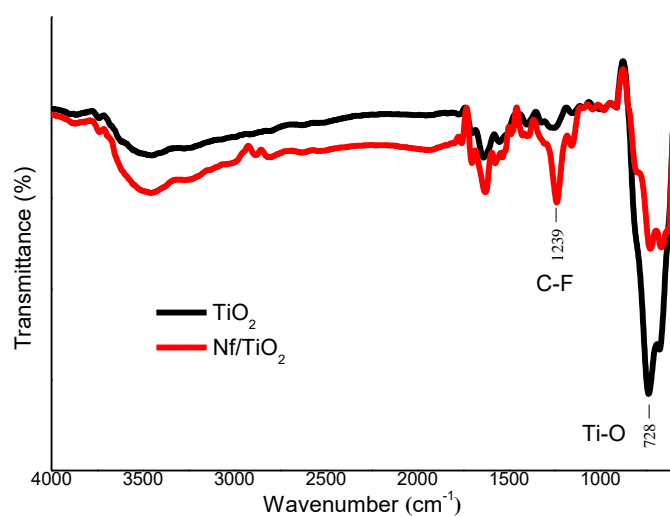


Figure S3. FT-IR spectra of platinized TiO₂ (1) and Nafion-coated Pt-TiO₂ (2).

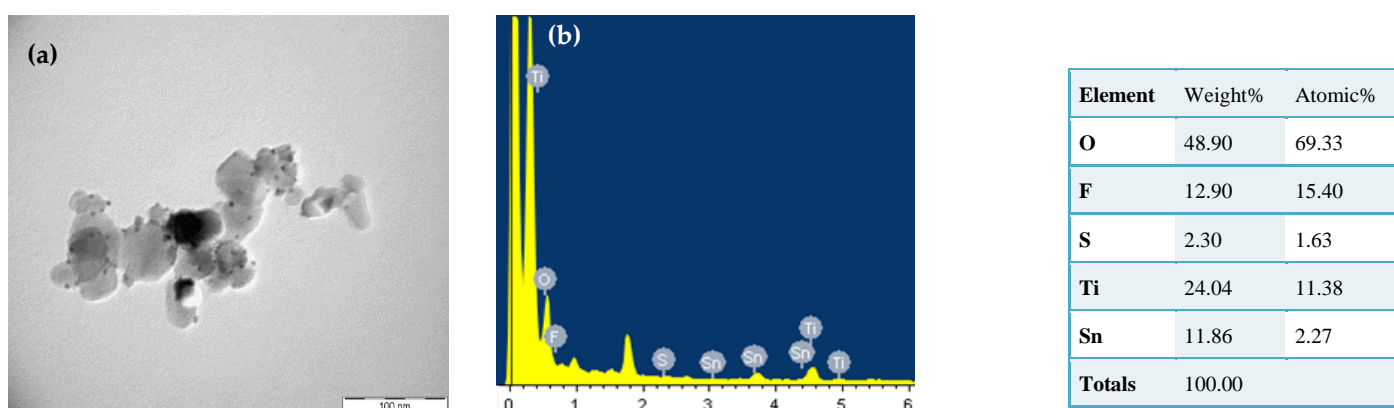


Figure S4. Micrographs for SnP^{6+} -embedded Nafion/Pt- TiO_2 (3) showing (a) TEM image, and (b) EDS spectrum.