Rutile TiO_2 Nano-branched Arrays on FTO for Dye-sensitized Solar Cells

Hua Wang,[a] Yusong Bai,[a] Qiong Wu,[a] Wei Zhou,[a] Hao Zhang,[b] Jinghong Li,*[b] and Lin Guo*[a]

School of Chemistry and Environment, Beijing University of Aeronautics and Astronautics, Beijing 100191, People's Republic of China

Department of Chemistry, Lab. of Bioorganic Phosphorus Chemistry & Chemical Biology, Tsinghua University, Beijing 100084, People's Republic of China

E-mail: guolin@buaa.edu.cn; jhli@mail.tsinghua.edu.cn

Supporting information:

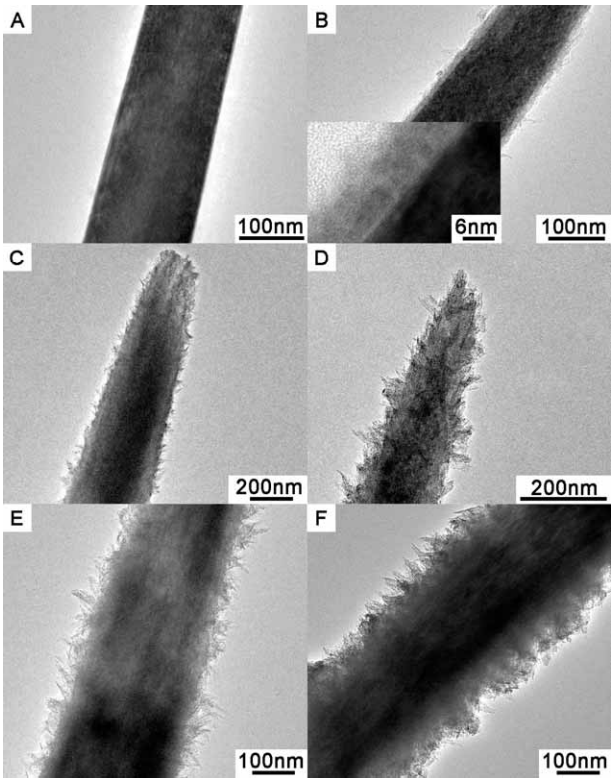

Figure S1. TEM images of TiO_2 nano-branched arrays after branches growth reaction for different times: (A) 0 h, (B) 6 h, (C) 12 h, (D) 18 h, (E) 24 h, (F) 30 h.

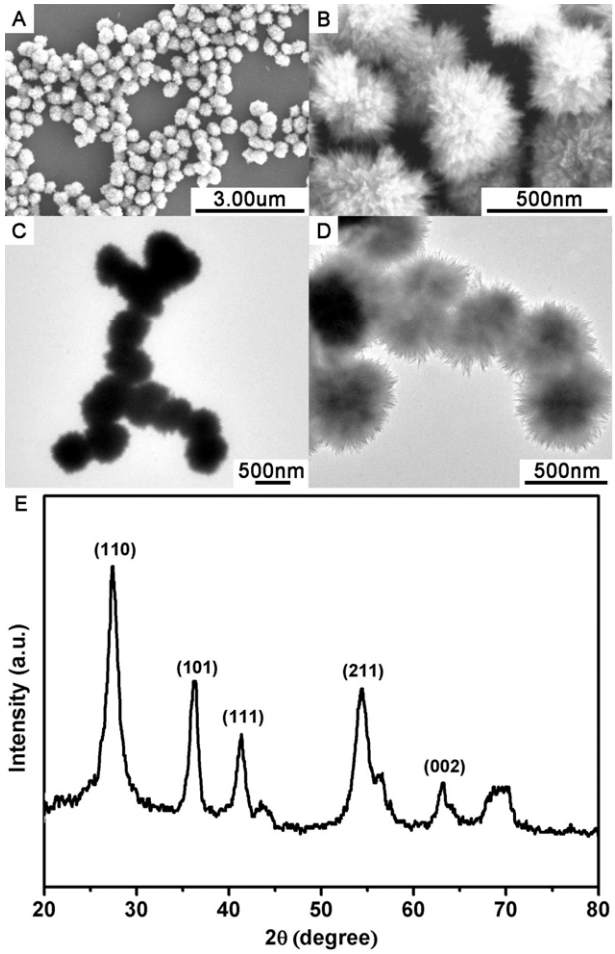

Figure S2. SEM images of hierarchical TiO_2 microspheres at (A) low and (B) high magnifications; (C) and (D) are TEM images of hierarchical TiO_2 microspheres at low and high magnifications; XRD pattern (E) of hierarchical TiO_2 microspheres.

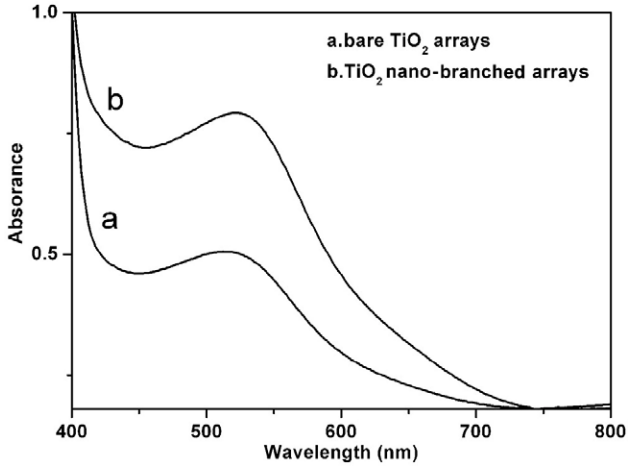

Figure S3. Diffuse reflectance absorption spectra of bare TiO_2 nanorod arrays film (a) and TiO_2 nano-branched arrays film (b) after adsorption of N719 dye, and spectra are referenced to FTO.