Electronic Supplementary Material (ESI) for Physical Chemistry Chemical Physics.


# Supporting Information

## Anatase $TiO_2$ with Nanopores for Dye-sensitized Solar Cells

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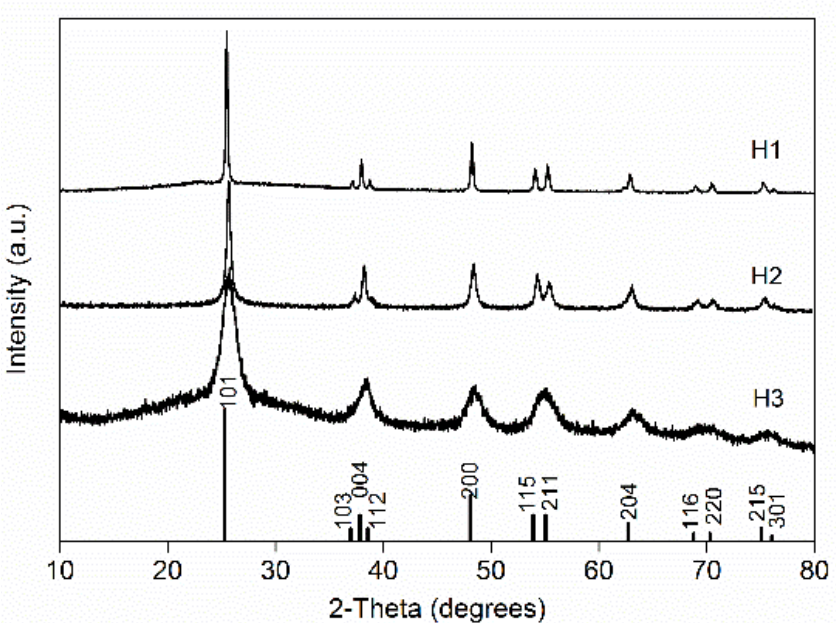


**Figure S1.** X-ray diffraction patterns of the porous anatase $TiO_2$.

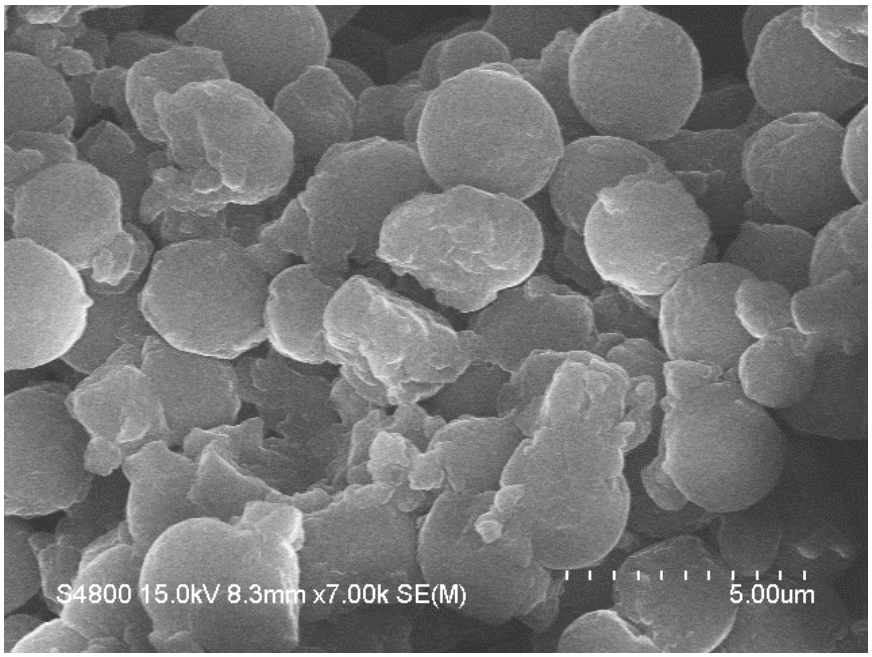


**Figure S2.** SEM image of the $TiO_2$ crystals synthesized with oleic acid.

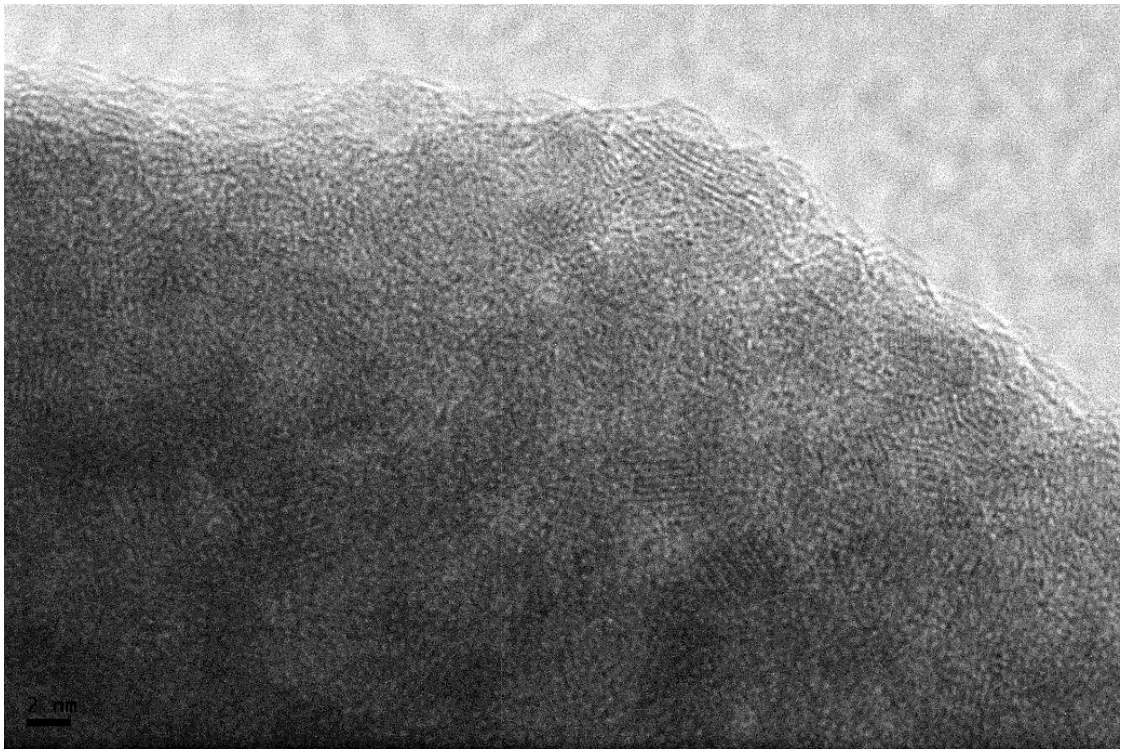


**Figure S3.** HRTEM image of the $TiO_2$ crystals synthesized with oleic acid.

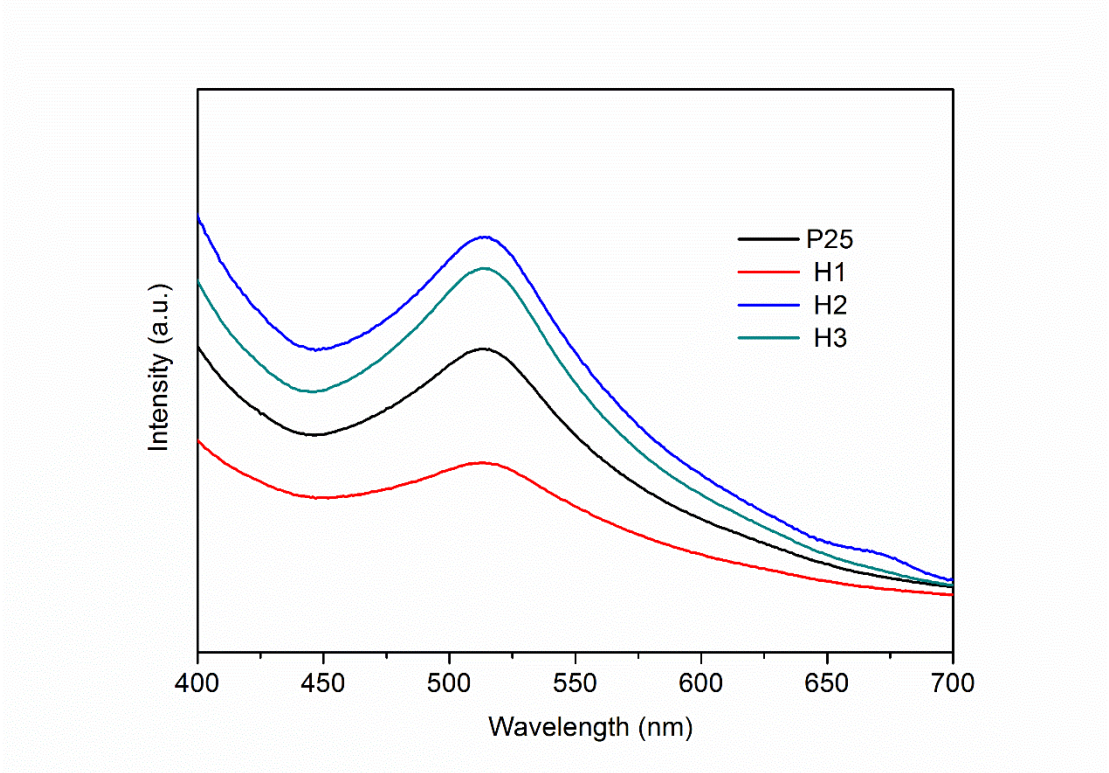


**Figure S4.** UV-vis absorption spectrum of N719 dye absorption on $TiO_2$ films.

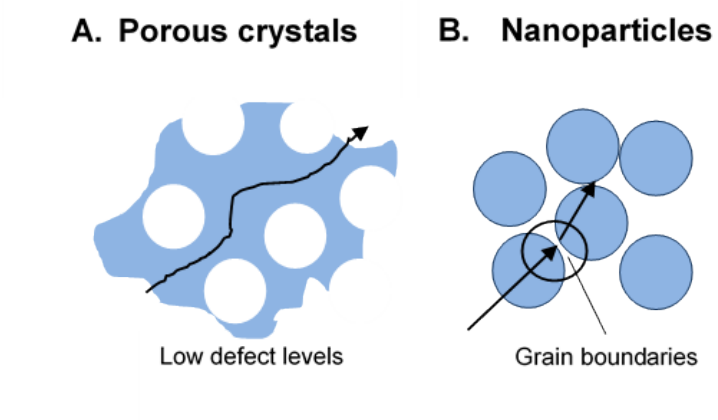


Figure S5. Schematic illustrations of electron path ways in porous crystals and conventional nanoparticles.