

Electronic Supplementary Information

Highly ordered TiO₂ macropore arrays as transparent photocatalysts

Yuan Dong, Junfeng Chao, Zhong Xie, Xin Xu, Zhuoran Wang and Di Chen*

Wuhan National Laboratory for Optoelectronics and College of Optoelectronic Science and Engineering, Huazhong University of Science and Technology, Wuhan 430074, China. Fax: 86 27 87792225; E-mail:

dichen@mail.hust.edu.cn

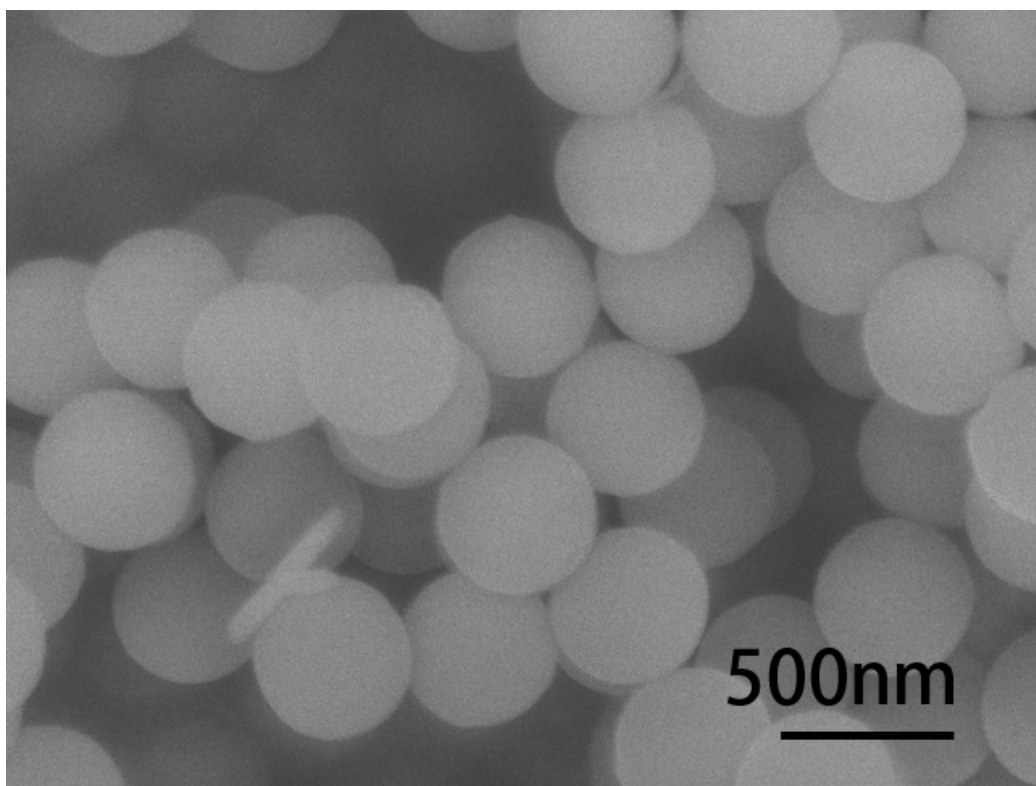


Figure. S1 SEM image of the non-crosslinked, monodispersed polystyrene spheres synthesized by emulsifier-free method. The diameters of polystyrene spheres are 500nm.

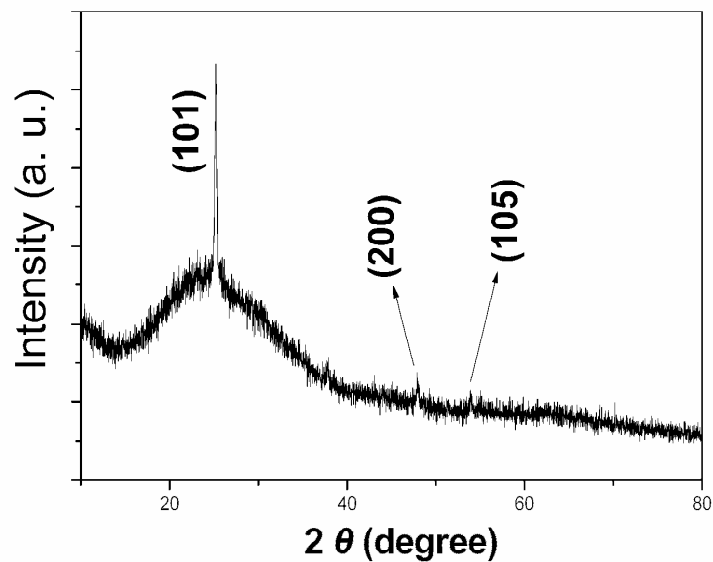


Figure. S2 XRD patterns of 2D TiO₂ ordered arrays. According to this image, diffraction peaks could be indexed as the TiO₂ anatase phase.

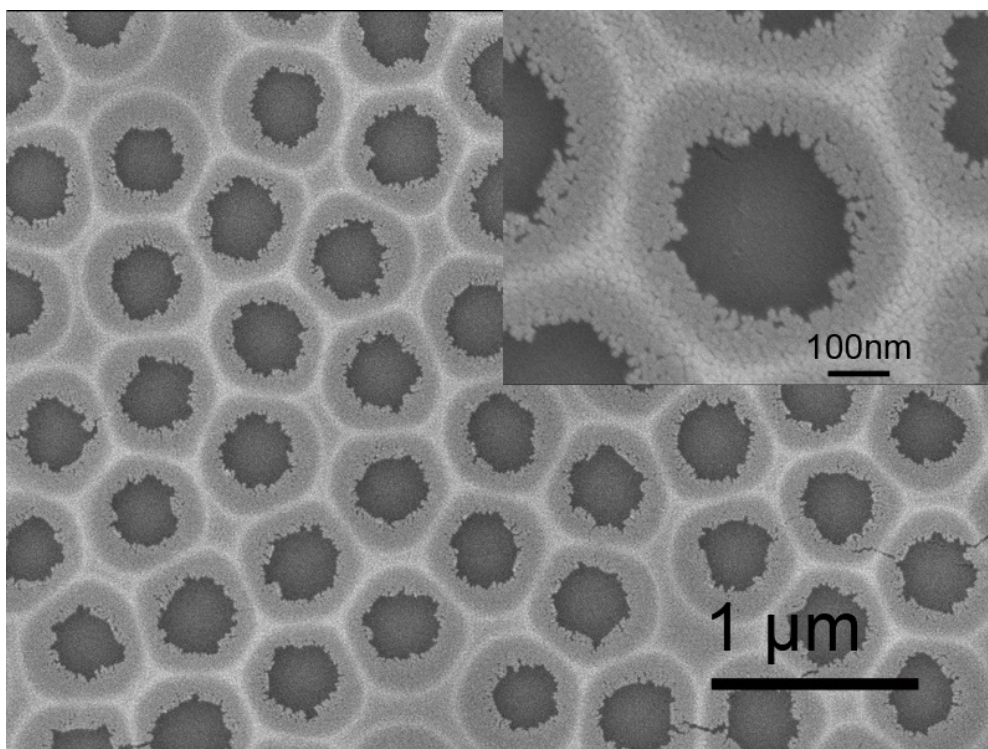


Figure. S3 SEM images of 2D TiO₂ ordered arrays on aluminum substrates in low magnification (30000x). The inset is a high magnification SEM image (150000x).