

Electronic Supplementary Information

A novel (Na, K)TaO₃ Single Crystal Nanocubes: Molten Salt Synthesis, Invariable Energy Level Doping and Excellent Photocatalytic Activity

Jingxue Sun, Gang Chen,* Yingxuan Li, Rencheng Jin, Qun Wang and Jian Pei

Department of Chemistry, Harbin Institute of Technology, Harbin 150001, P. R. China.

Fax: (+86)-451-86413753; Tel: (+86)-0451-86413753;

E-mail: gchen@hit.edu.cn

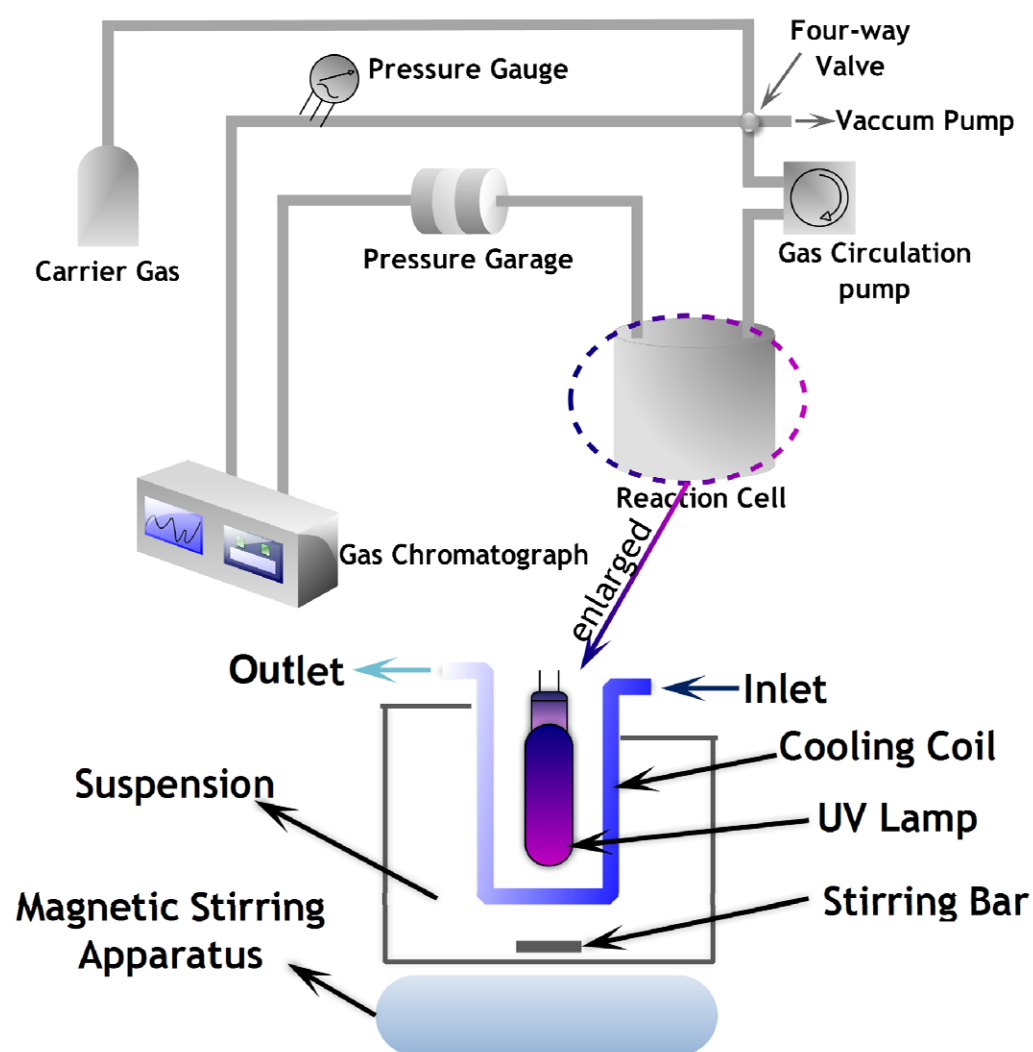


Fig. S1 A sketch map of the photocatalytic reaction system.

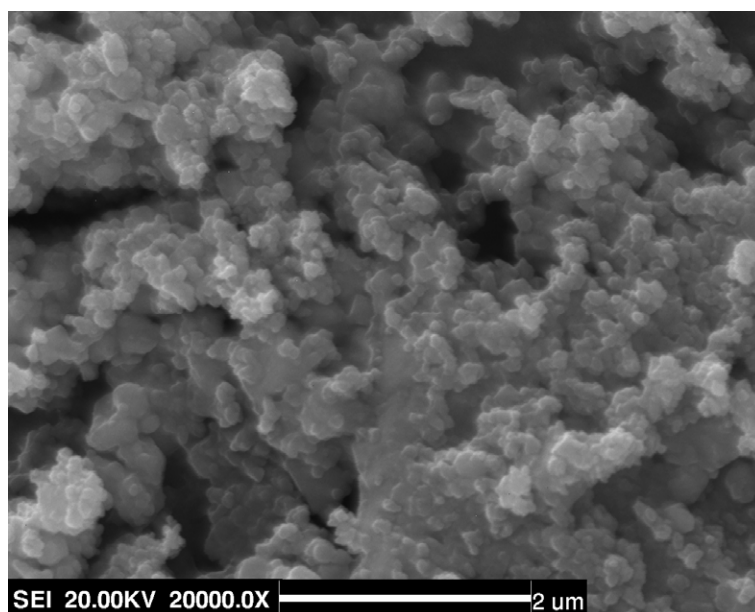


Fig. S2 SEM image of the product (Ta₂O₅) obtained at 15 min

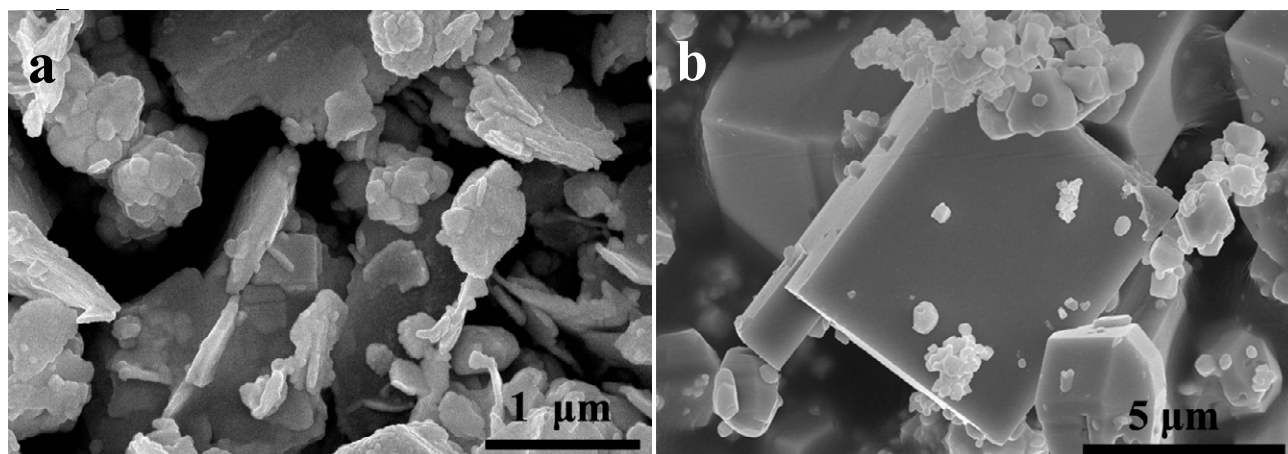


Figure S3. SEM images of (a) KTaO₃ and (b) NaTaO₃ synthesized in molten salt.

Pure NaTaO₃ and KTaO₃ were synthesized in molten salt without KCl and NaCl, respectively.