Supporting Information

Novel Design of Highly [110]-Oriented Barium Titanate Nanorod Array and Its High Energy Density and Ultrafast Charge-Discharge Ability in Nanocomposites

Lingmin Yao[a], Zhongbin Pan[b], Jiwei Zhai*[b], Haydn H.D. Chen[a*]

[a]*Institute of Applied Physics and Materials Engineering, Faculty of Science and Technology, University of Macau, Macao SAR 999078, China*

[b]*Key Laboratory of Advanced Civil Engineering Materials of Ministry of Education, Functional Materials Research Laboratory, School of Materials Science & Engineering,Tongji University, 4800 Caoan Road, Shanghai 201804, China.*

* haydnchen@umac.mo (Haydn H.D. Chen) and apzhai@tongji.edu.cn (Jiwei, Zhai)

Figure.S1 EDX of TO nanorod array at 180 ℃ for 2.5 h

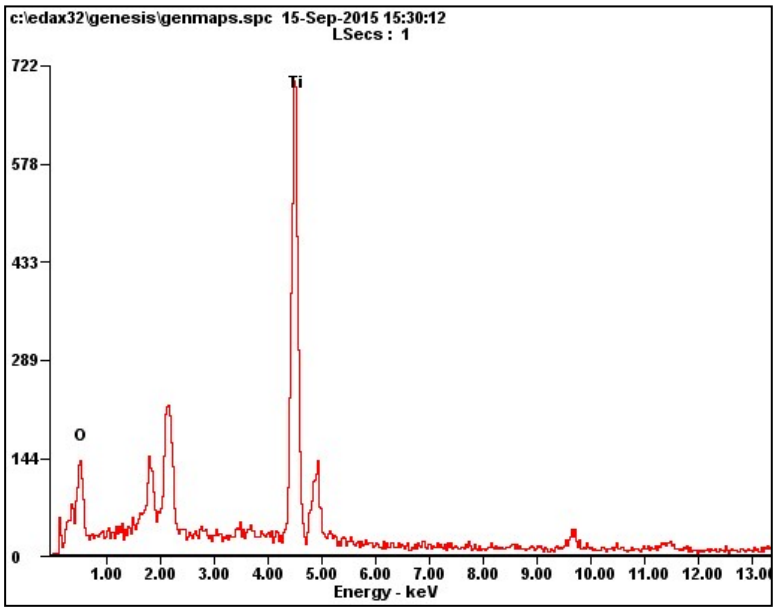

Figure S2 EDX of alkaline-treated TO treated at 150 ℃ for 3 h with 8 M NaOH

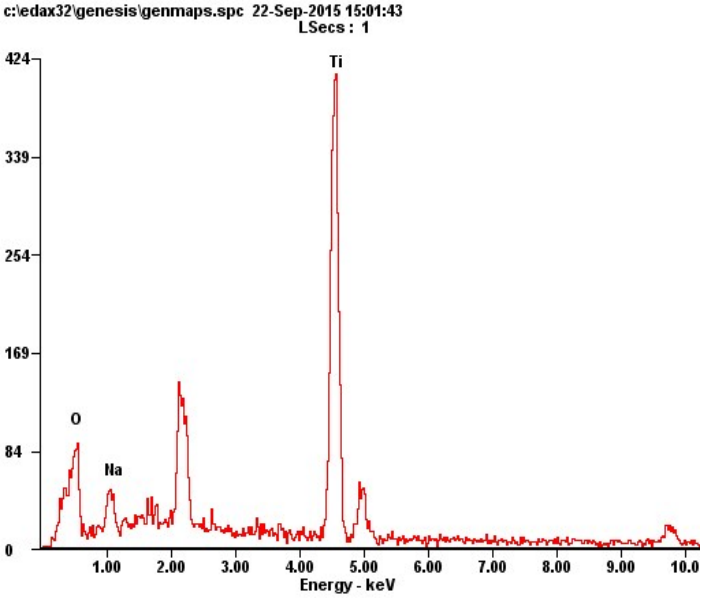

Figure S3 EDX of BT nanorod array grown in 0.1 M Ba(OH)2, 70 ml DI, 30ml glycol ether and 0.25 M KNO3 at 210 ℃ for 6h (The element of Cu comes from the Copper screen)

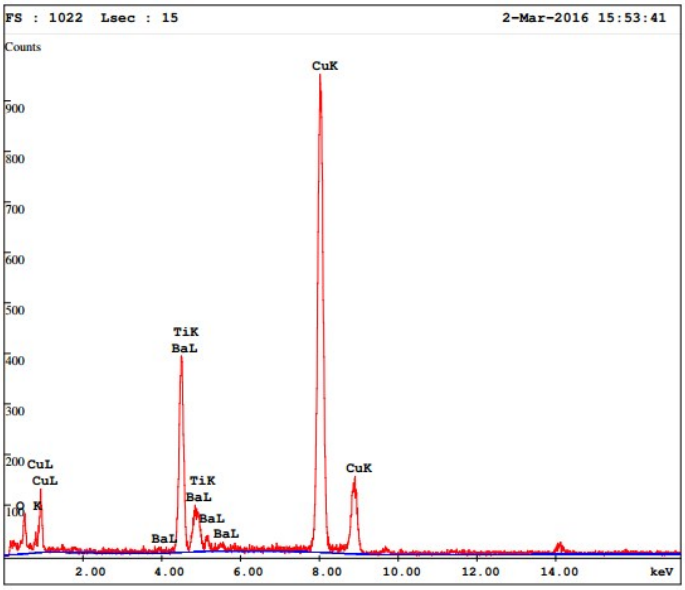

Figure S4 the charge-discharge circuit