

Engineering Hierarchical Interface in High-temperature Polymer Dielectrics for Electrostatic Supercapacitors

Xu Fan^a, Zhicheng Li^a, Yu Zhang^a, Peng Wang^{*c}, Jinjun Liu^a, Jinhong Yu^d, Jiwei Zhai^c, Weiping Li^{*b}, and Zhongbin Pan^{*a}

^aSchool of Materials Science and Chemical Engineering, Ningbo University, Ningbo, Zhejiang, 315211, China. E-mail: panzhongbin@163.com (Z. Pan)

^bSchool of Physical Sciences and Technology, Ningbo University, Ningbo, Zhejiang, 315211, China. E-mail: liweiping@nbu.edu.cn (W. Li)

^cSchool of Materials Science and Engineering, Tongji University, Shanghai 201804, China. E-mail: dianlizi@126.com (P. Wang)

^dKey Laboratory of Marine Materials and Related Technologies, Zhejiang Key Laboratory of Marine Materials and Protective Technologies, Ningbo Institute of Materials, Technology and Engineering, Chinese Academy of Sciences, University of Chinese Academy of Sciences, Ningbo, Zhejiang, China.

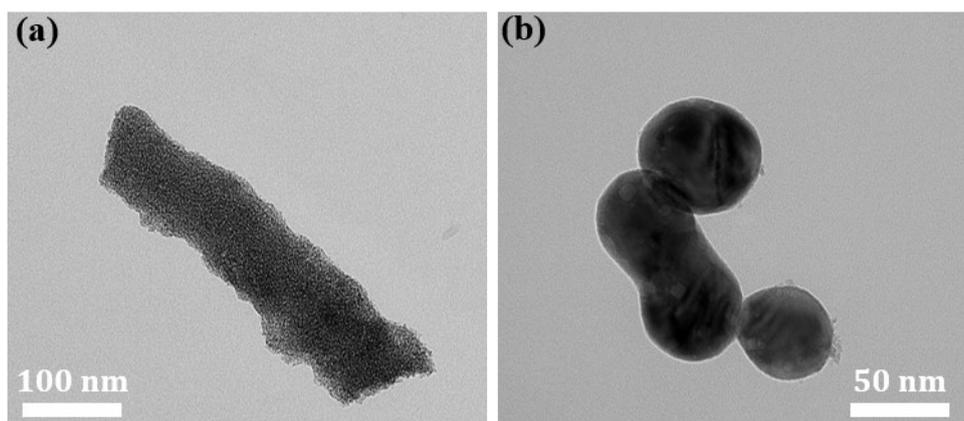


Fig. S1 TEM images of (a) Al_2O_3 nanofiber, (b) BaTiO_3 nanoparticles



Fig. S2 Digital photos of PESU-BT@AO NFs composite films.

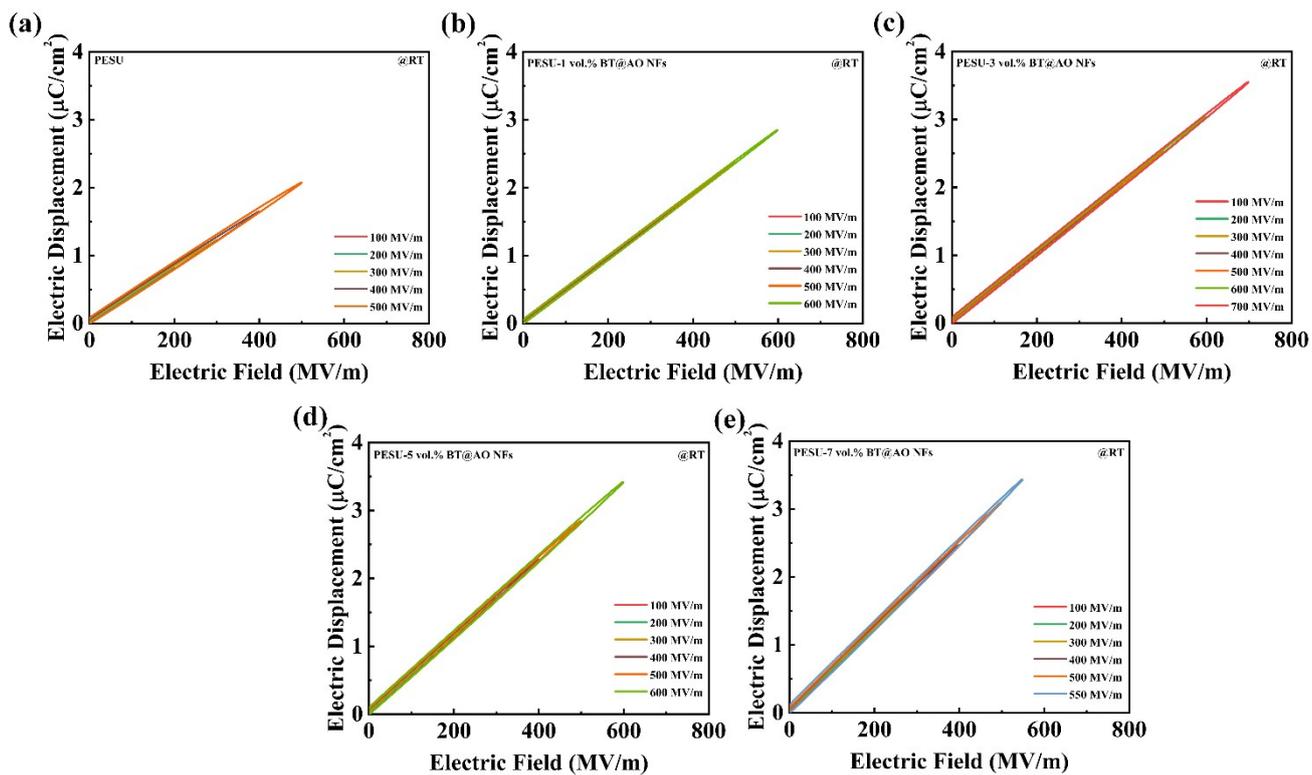


Figure S3 *D-E* loops of PESU and PESU-BT@AO NFs composites at room temperature: (a) PESU, (b) 1 vol.%, (b) 3 vol.%, (c) 5 vol.% and (d) 7 vol.%

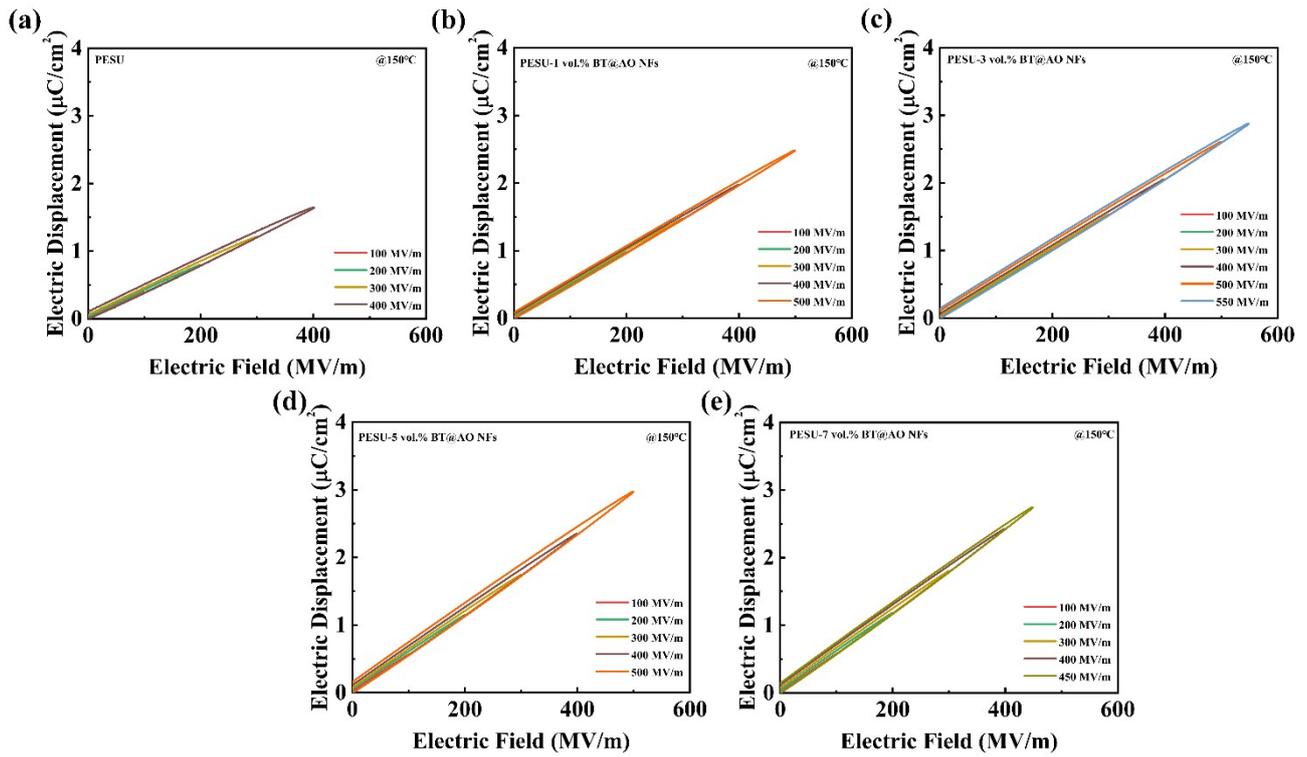


Figure S4 *D-E* loops of PESU and PESU-BT@AO NFs composites at 150°C : (a) PESU, (b) 1 vol.%, (c) 3 vol.%, (d) 5 vol.% and (e) 7 vol.%