Electronic Supplementary Material (ESI) for Journal of Materials Chemistry C.

Supplemental Information

The improved interfacial polarization in poly(vinylidene fluoride-co-chlorotrifluoroethylene) composite with hyperbranched polyethylene-*graft*-poly(methyl methacrylate) modified boron nitride nanosheets

Huijian Ye, Wenqing Liu, Xuanhe Zhang, Lixin Xu*

College of Materials Science and Engineering, Zhejiang University of Technology, Hangzhou 310014, China

* Corresponding author, E-mail address: gcsxlx@zjut.edu.cn (L. Xu).

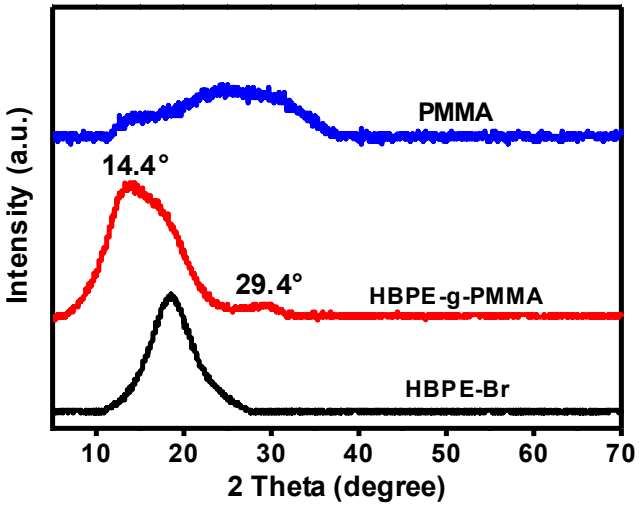

Figure S1. The XRD patterns of hyperbranched polymers.

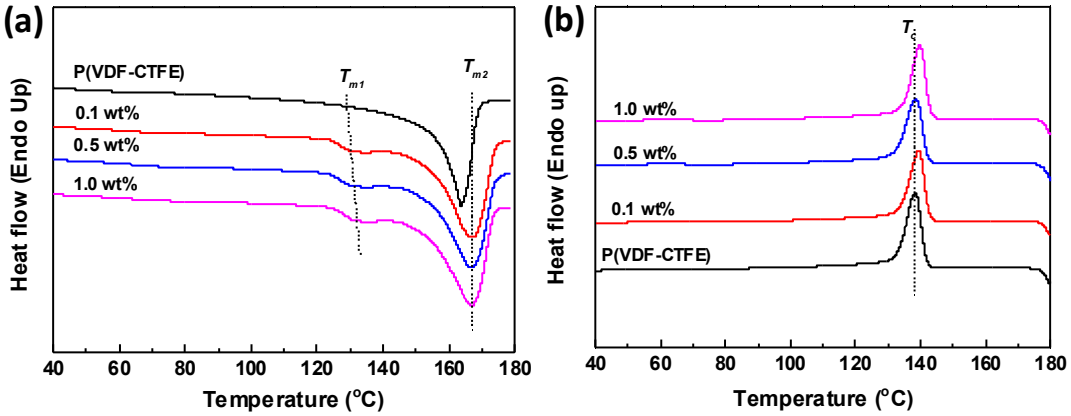

Figure S2. The DSC curves of P(VDF-CTFE) nanocomposites: (a) melting process and (b) crystallization.

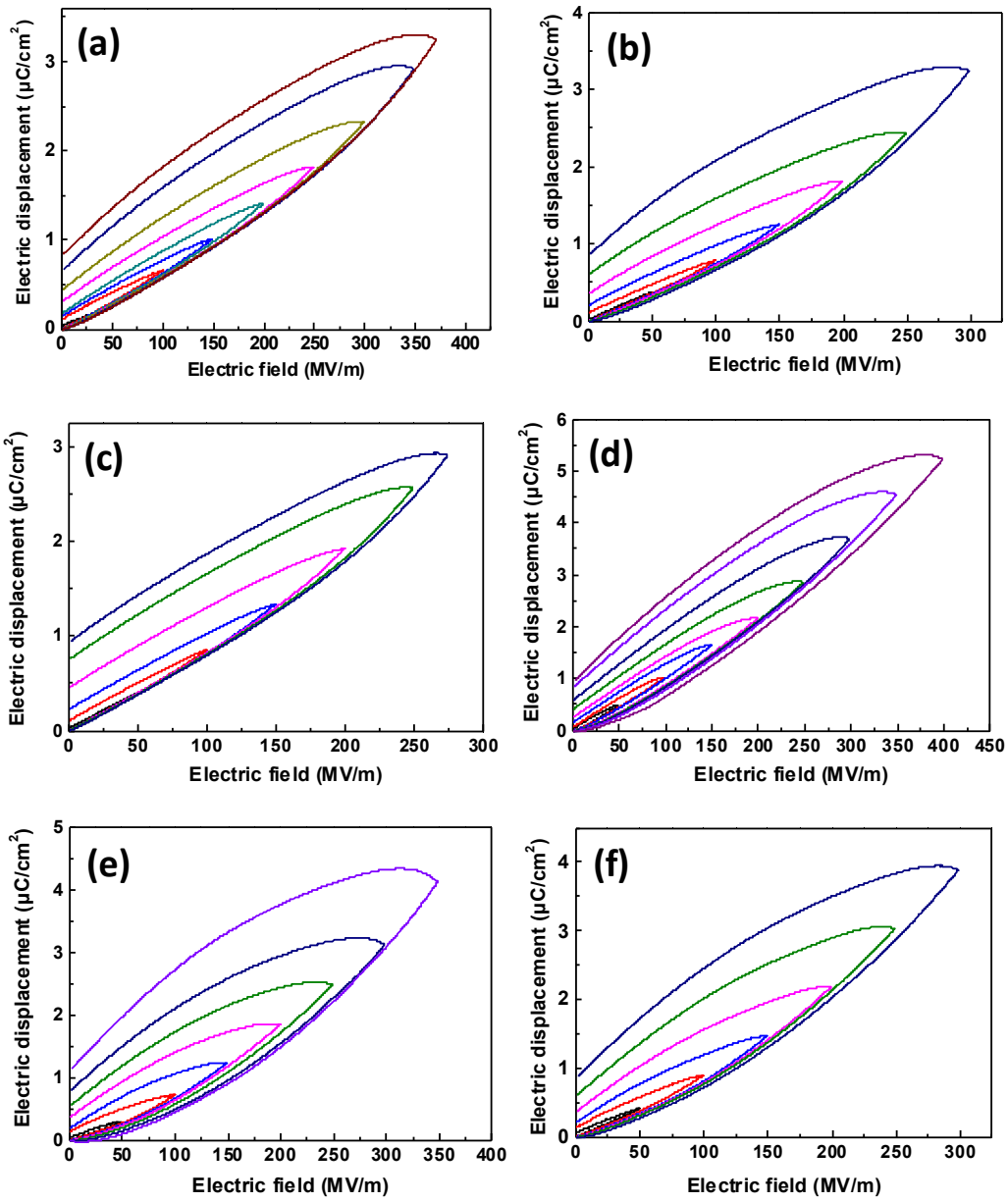

Figure S3. The unipolar P-E loops of BNNSs/P(VDF-CTFE) nanocomposite films: (a) P(VDF-CTFE), (b) 0.1 wt%, (c) 0.2 wt%, (d) 0.5 wt%, (e) 0.8 wt%, and (f) 1.0 wt%.

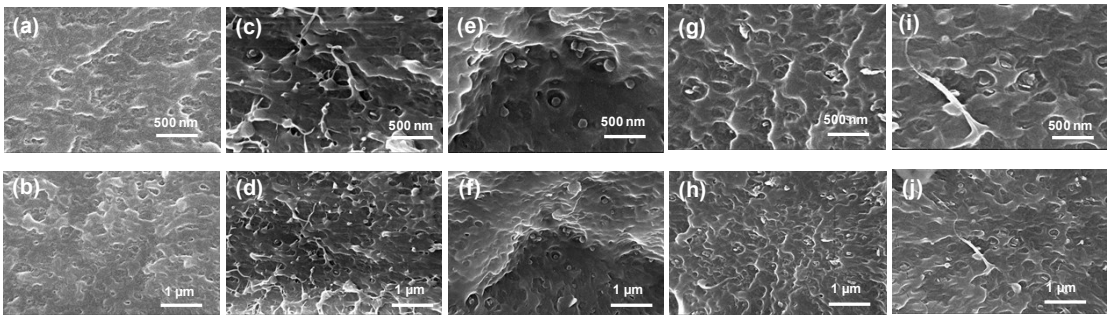

Figure S4. SEM images of BNNSs/ P(VDF-CTFE) nanocomposites: (a), (b) pure P(VDF-CTFE); (c), (d) 0.1 wt%; (e), (f) 0.5 wt%; (g), (h) 0.8 wt%; (i), (j) 1.0 wt%.