

Electronic Supplementary Information.

Core-Satellite Ag@BaTiO₃ Nanoassemblies for Polymer Nanocomposites with High Discharged Energy Density, High Breakdown Strength and Low Dielectric Loss

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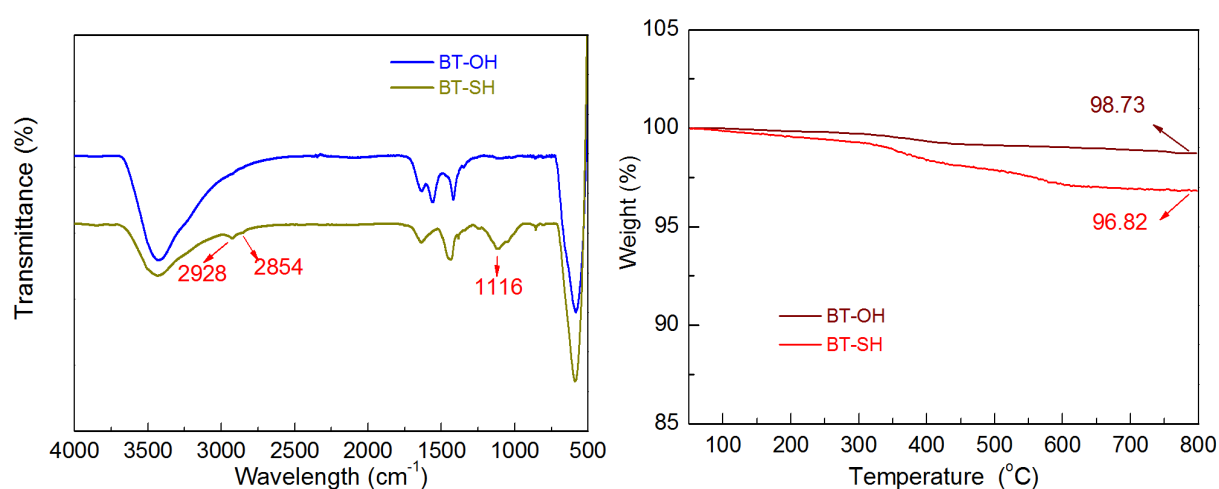


Figure S1. (left) FTIR spectra of BT-OH and BT-SH nanoparticle, (right) TGA curves of BT-OH, BT-SH and BT-Ag nanoparticles measured in N₂.

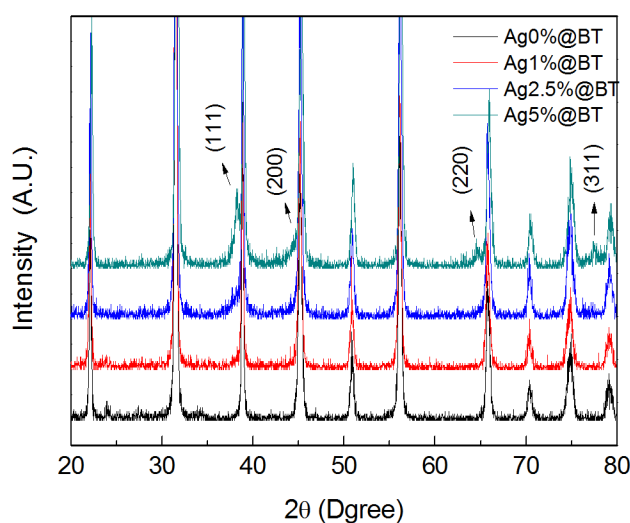


Figure S2. XRD spectra of the BT nanoparticles and Ag @BT nanoparticles with different amount of Ag.

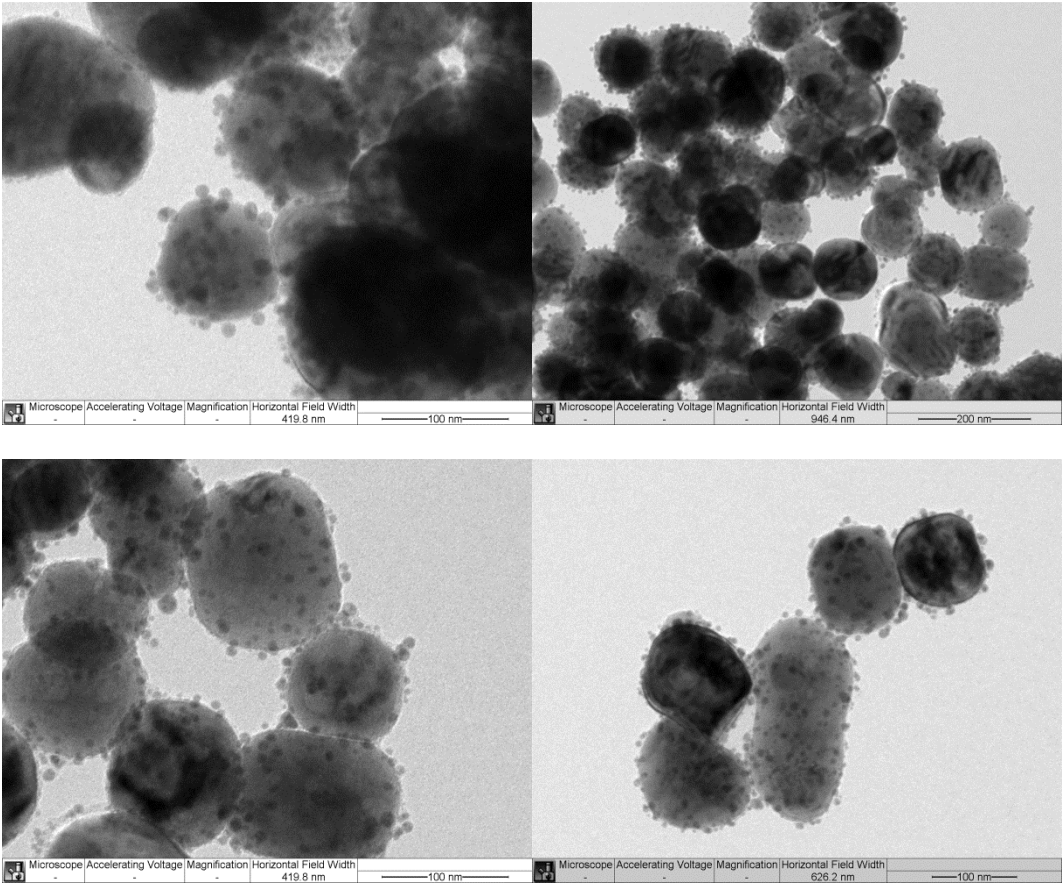


Figure S3. TEM images of Ag1%@BT nanoparticles.

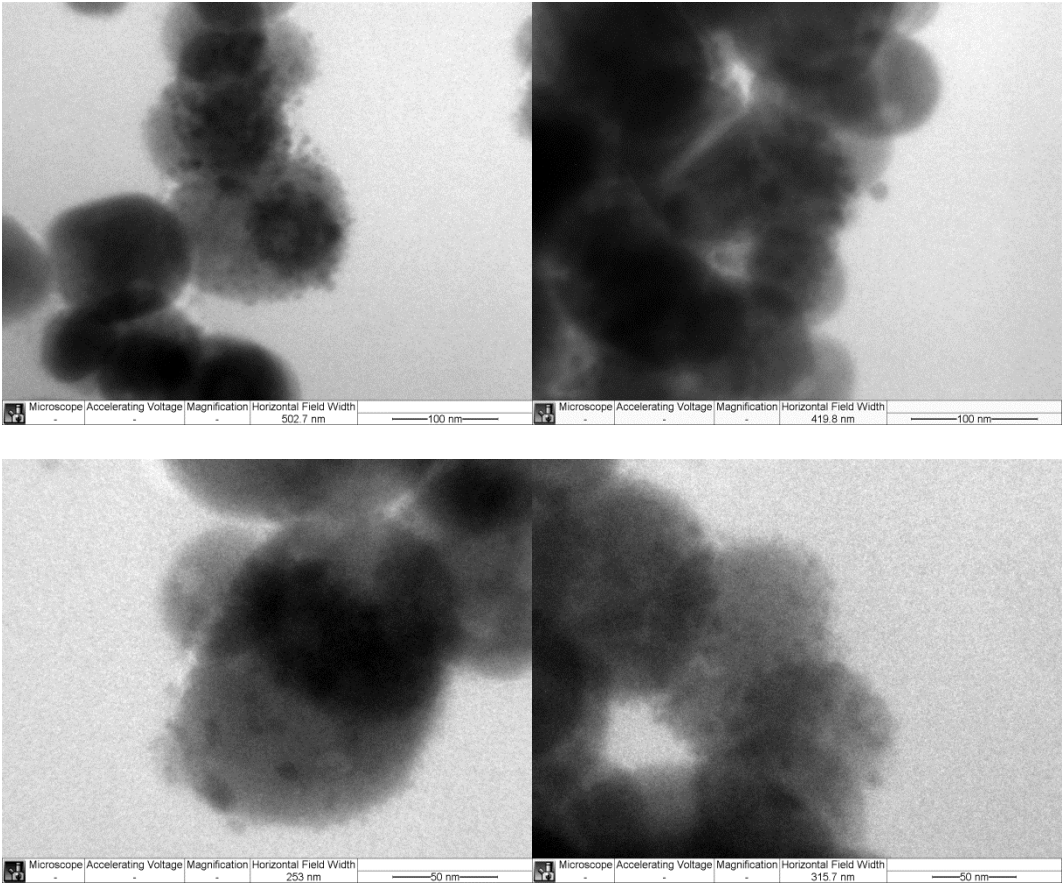


Figure S4. TEM images of Ag1%@BT /PVDF nanocomposite.

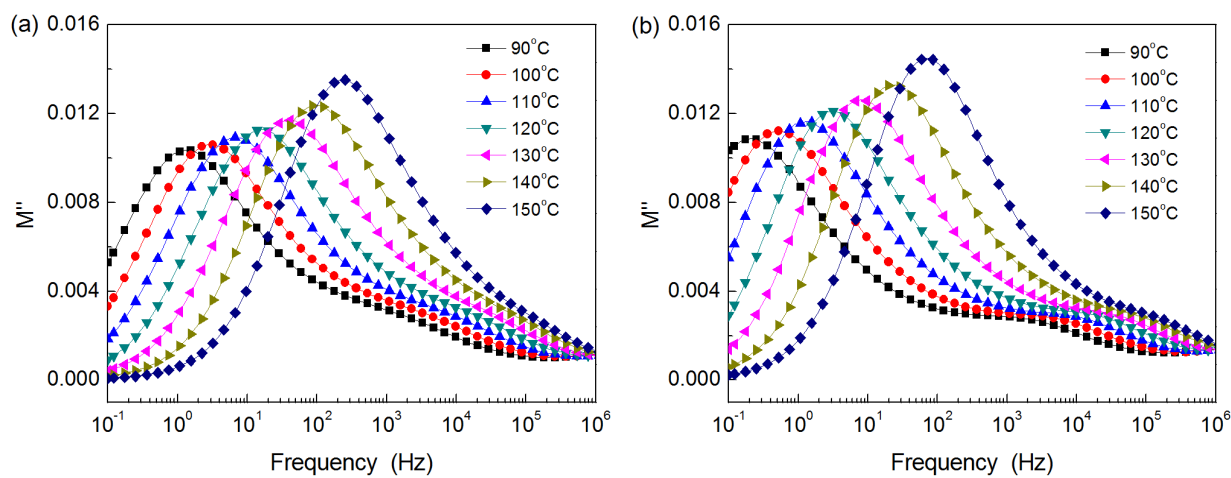


Figure S5. Imaginary electric modulus of PVDF/BT (a) and PVDF/Ag@BT (b) nanocomposites

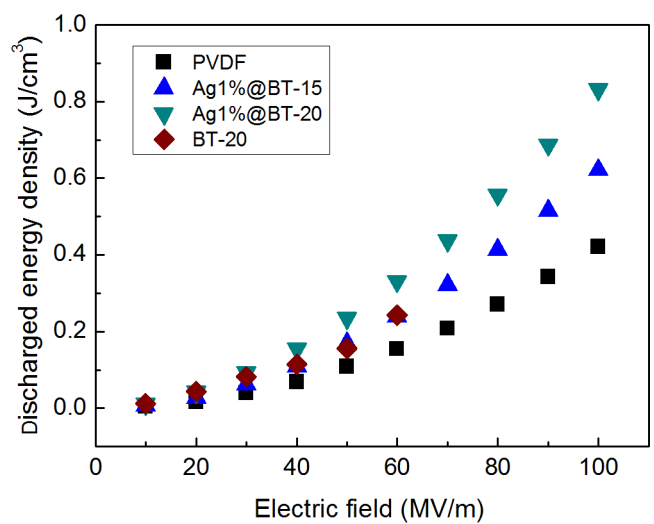


Figure S6. Discharged energy density for PVDF/Ag1%@BT nanocomposites. Note: When the electric field is larger than 60 MV/m, the discharged energy density data of the PVDF nanocomposites with 20% BT is not available because of breakdown of the sample.