Supplementary Material



Figure S1 – Backscatter (left column) and secondary (right column) electron imaging of the Fe_2O_3 (top) and MnZn Ferrite (bottom) nanoparticles.



Figure S2 – Backscatter (left column) and secondary (right column) electron imaging of the PAN (top), PAN/Fe₂O₃ (middle) and PAN/MnZn Ferrite (bottom) nanofibers.



Figure S3 – EDX spectra of the (a) PAN/Fe_2O_3 and (b) PAN/MnZn Ferrite nanofibers.



Figure S4 – Comparison of PAN, PAN/MnZn Ferrite and PAN/Fe₂O₃ samples performed at 0.5 Hz at 0 T.



Figure S5 – DMA (storage and loss modulus, $tan\delta$) of PAN/Fe₂O₃ samples at 3 different frequencies at a heating rate of 5 K min⁻¹.



Figure S6 – DMA (storage and loss modulus, tan δ) of PAN/MnZn Ferrite samples at 3 different frequencies at a heating rate of 5 K min⁻¹.



PAN / iron oxide

PAN / Mn Zn ferrite

