

Supplementary materials

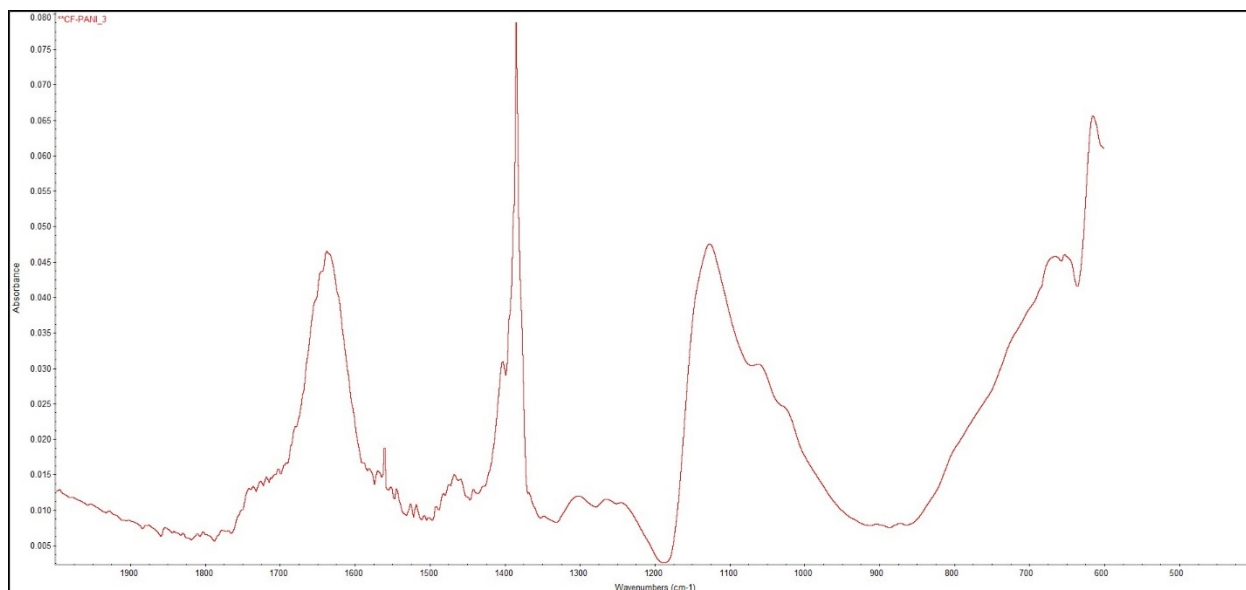


Figure S1. FTIR spectrum of BP-0.250 CC-PANI composite.

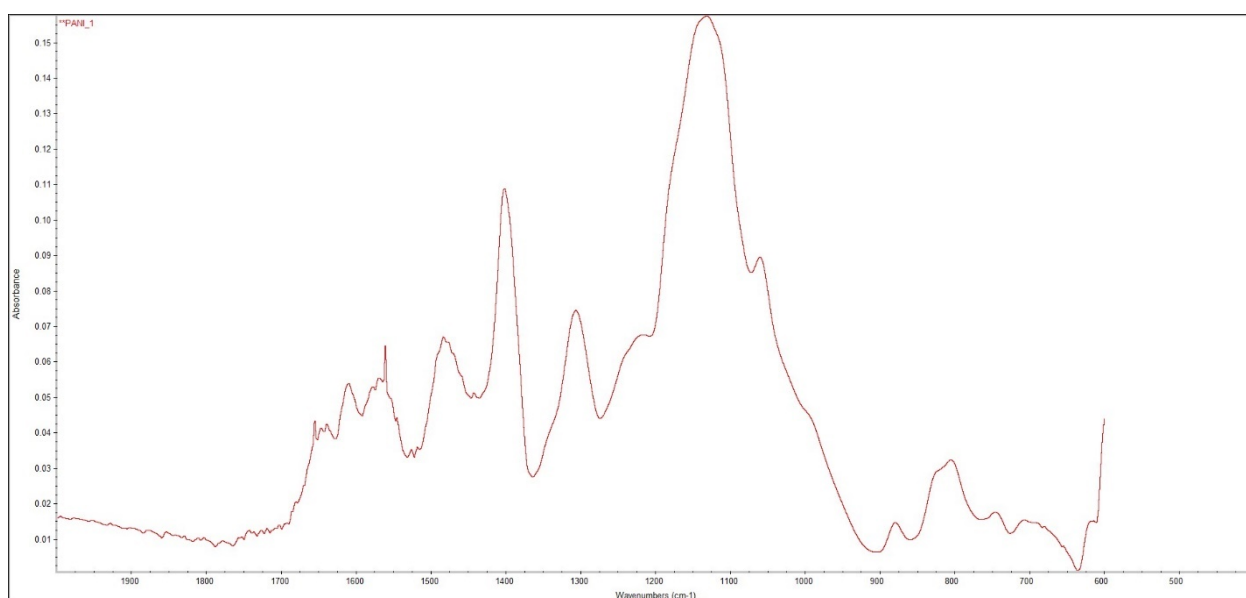


Figure S2. FTIR spectrum of PANI (salt form) obtained by the oxidation of aniline by ammonium persulfate in sulfuric acid medium.

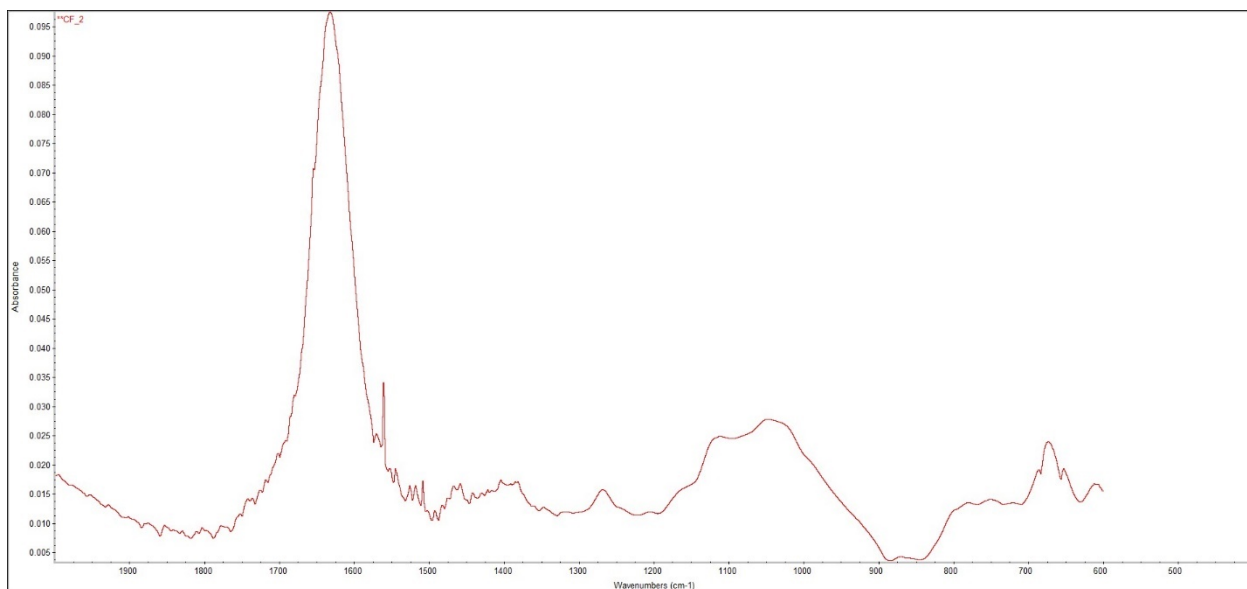


Figure S3. FTIR spectrum of CC Busofit T-1-055.

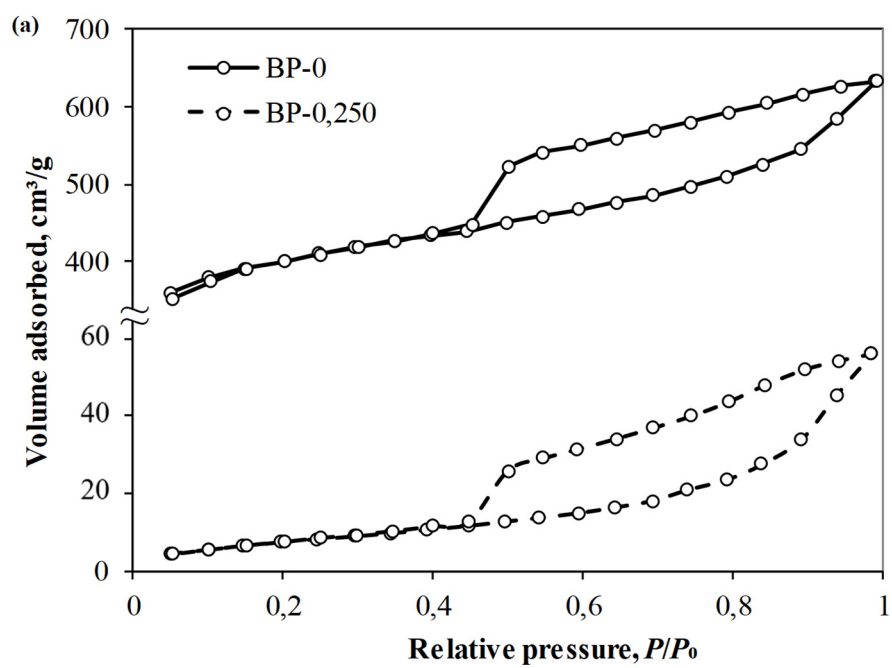


Figure S4a. Adsorption/desorption isotherms for BP-0 and BP-0.250.

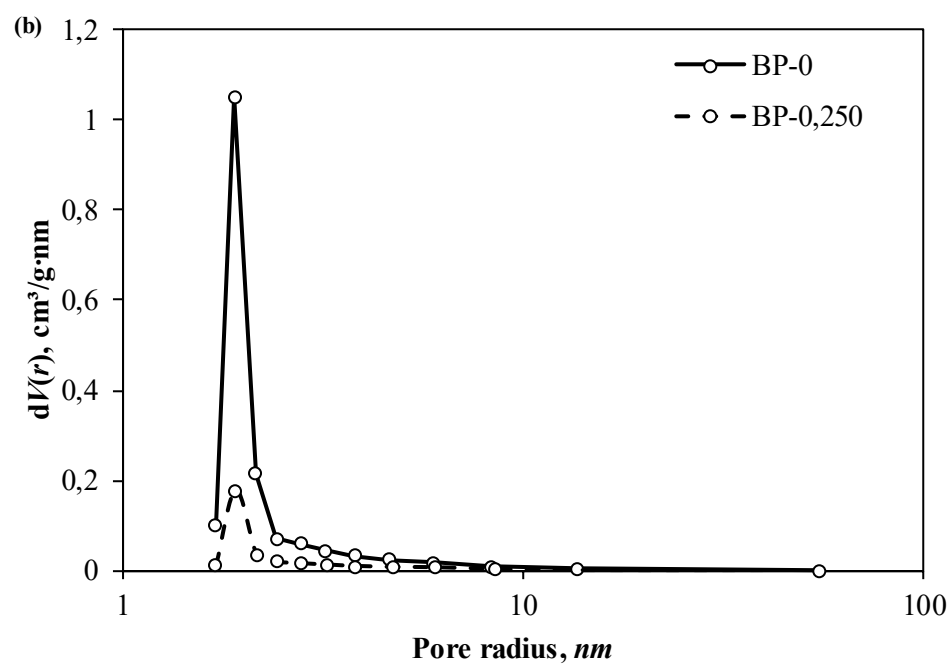


Figure S4b. Pore size distribution plots for BP-0 and BP-0.250.

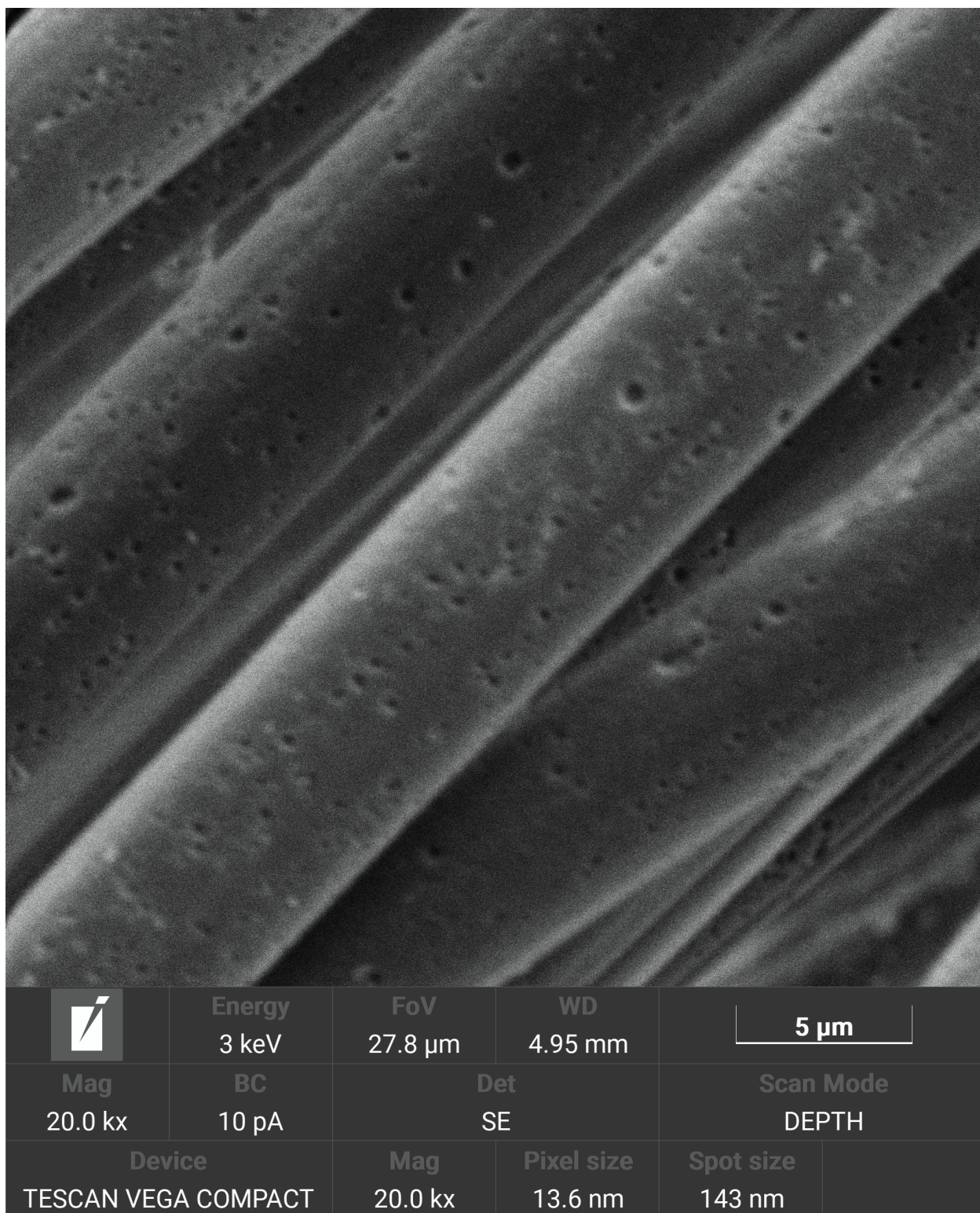


Figure S5. Original, uncropped, and unadjusted image of unmodified CC fibers obtained by scanning electron microscopy (Figure 1 in the main text).

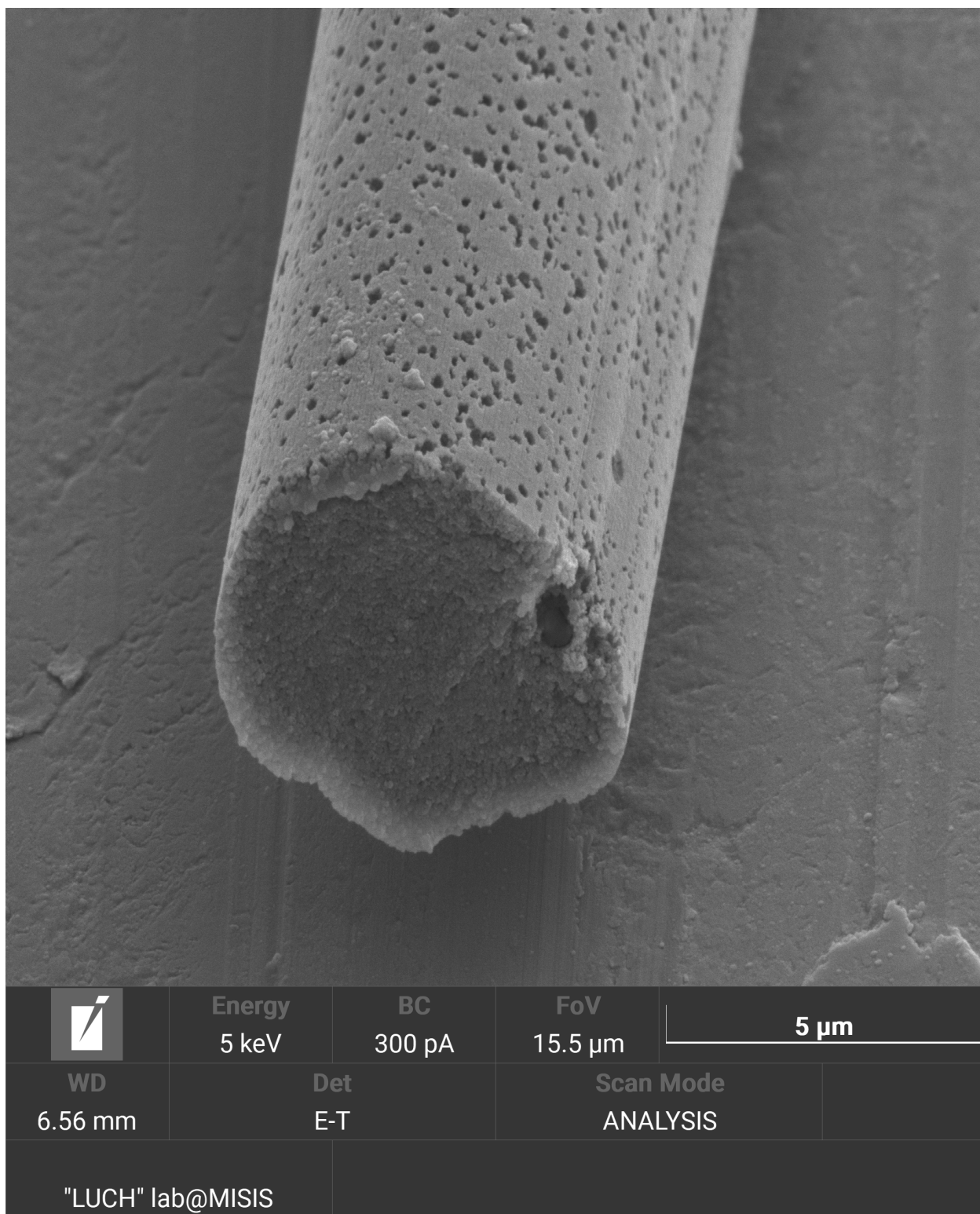


Figure S6a. Original, uncropped, and unadjusted image of BP-0 sample obtained by dual-beam scanning electron microscopy (Figure 2a in the main text).

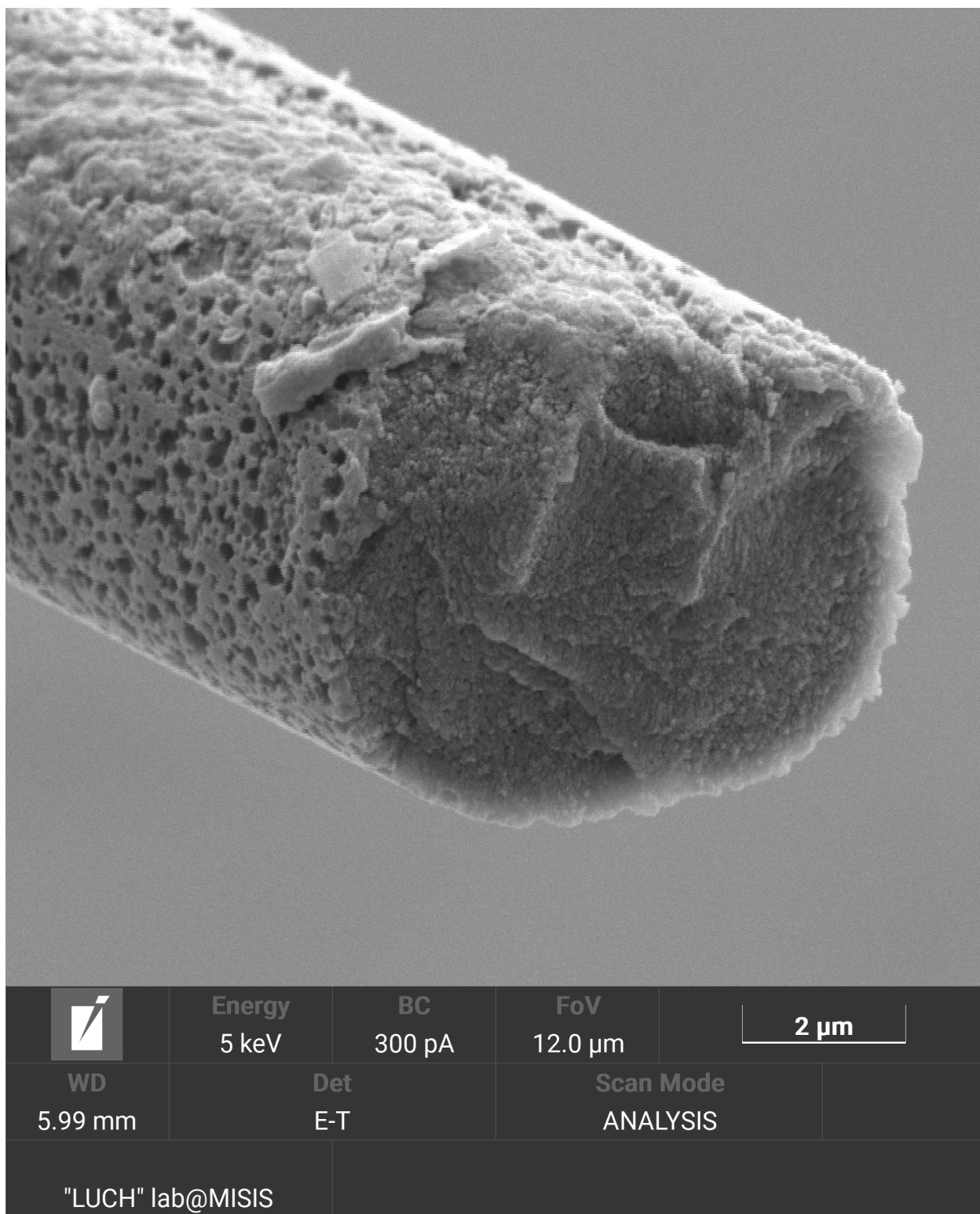


Figure S6b. Original, uncropped, and unadjusted image of BP-0.250 sample obtained by dual-beam scanning electron microscopy (Figure 2b in the main text).

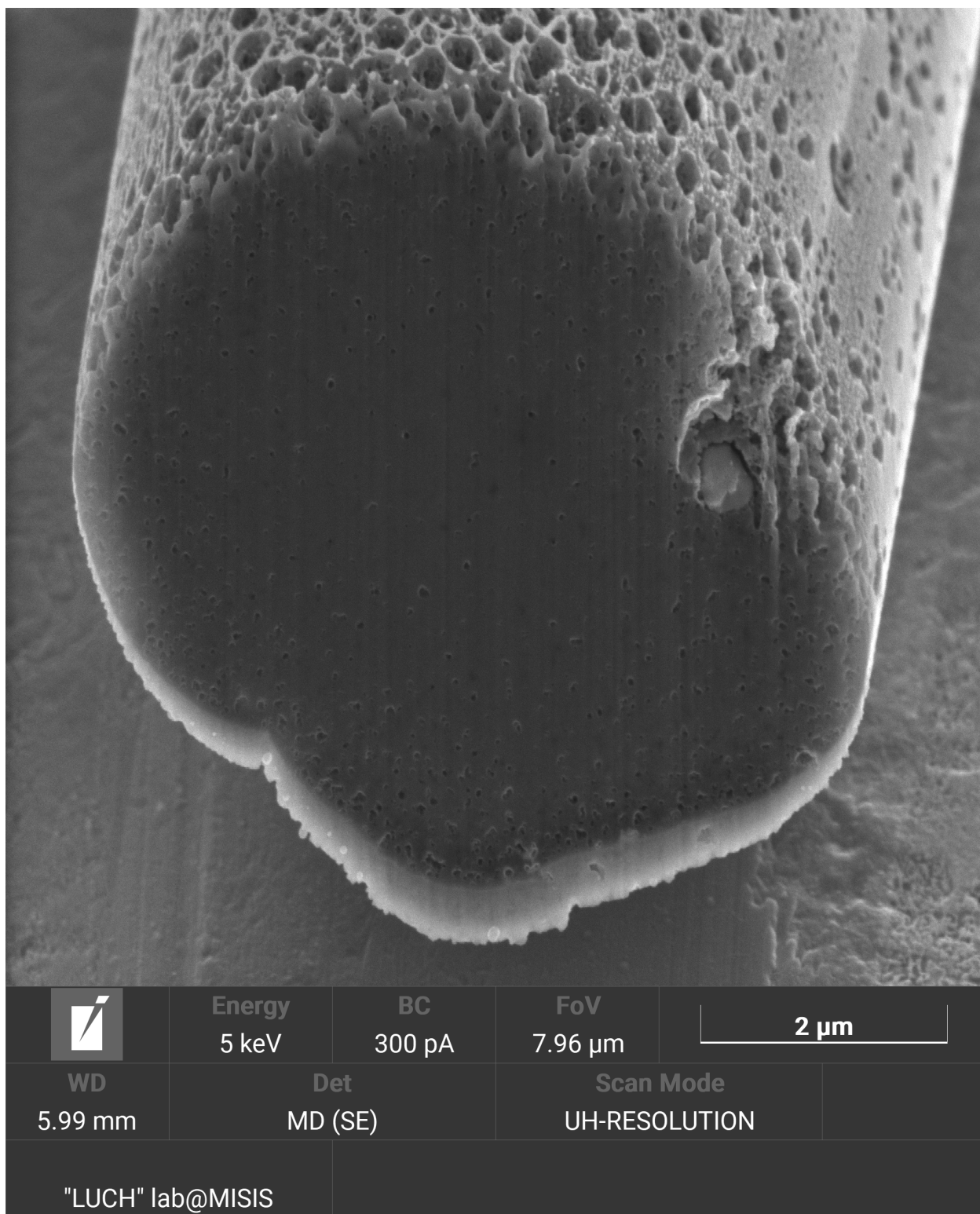


Figure S7a. Original, uncropped, and unadjusted image of BP-0 sample obtained by dual-beam scanning electron microscopy (Figure 3a in the main text).

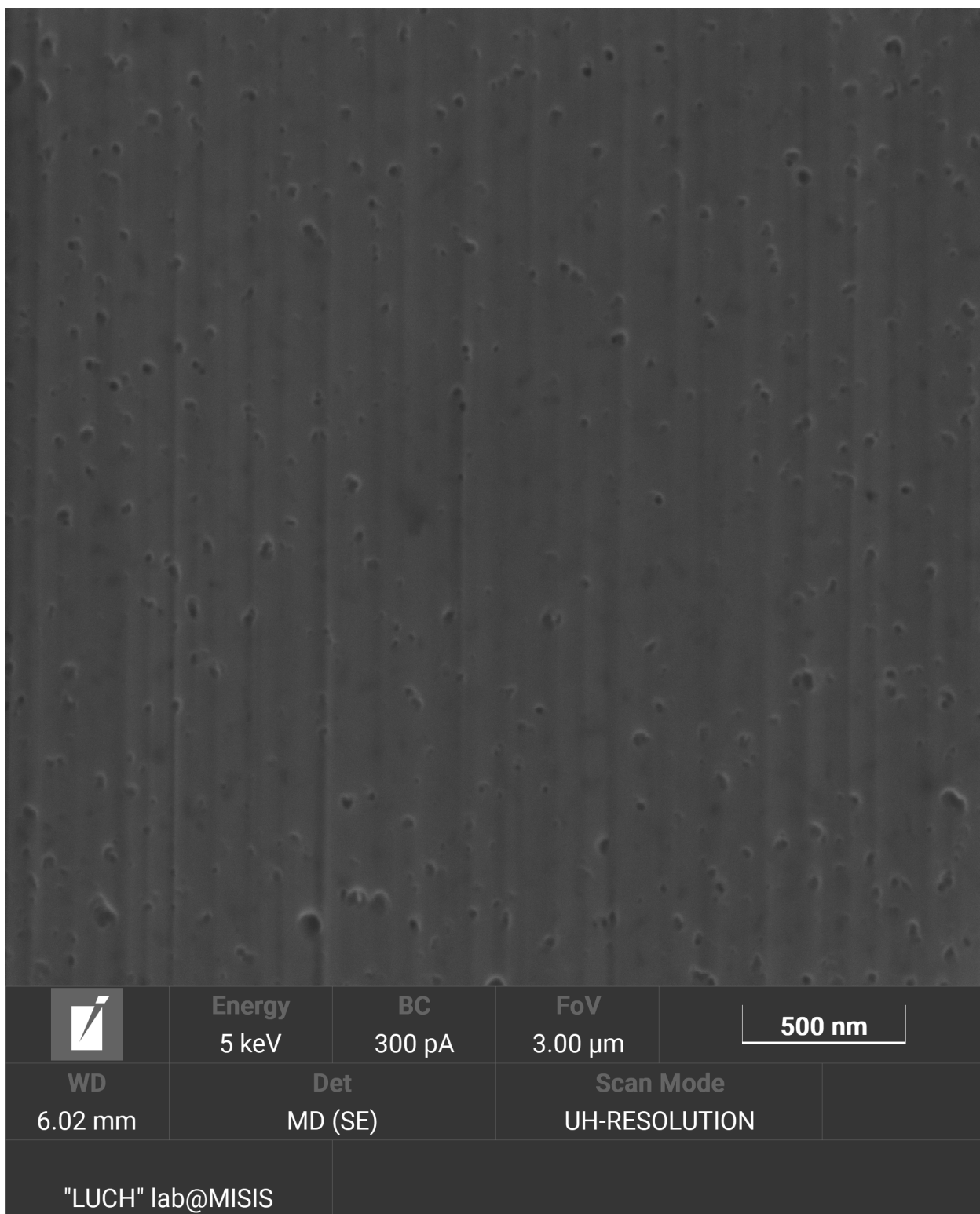


Figure S7b. Original, uncropped, and unadjusted image of BP-0 sample obtained by dual-beam scanning electron microscopy (Figure 3b in the main text).

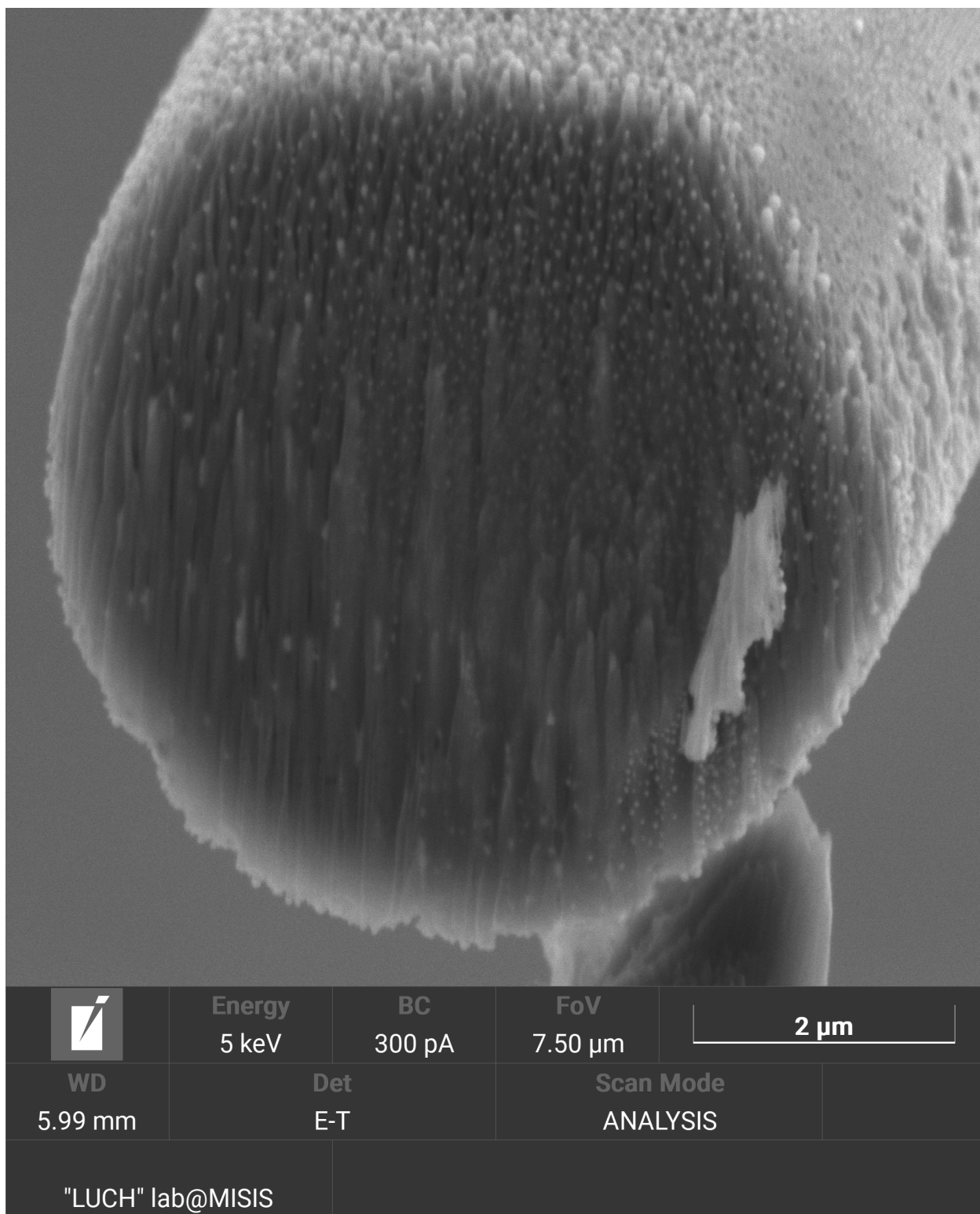


Figure S7c. Original, uncropped, and unadjusted image of BP-0.250 sample obtained by dual-beam scanning electron microscopy (Figure 3c in the main text).

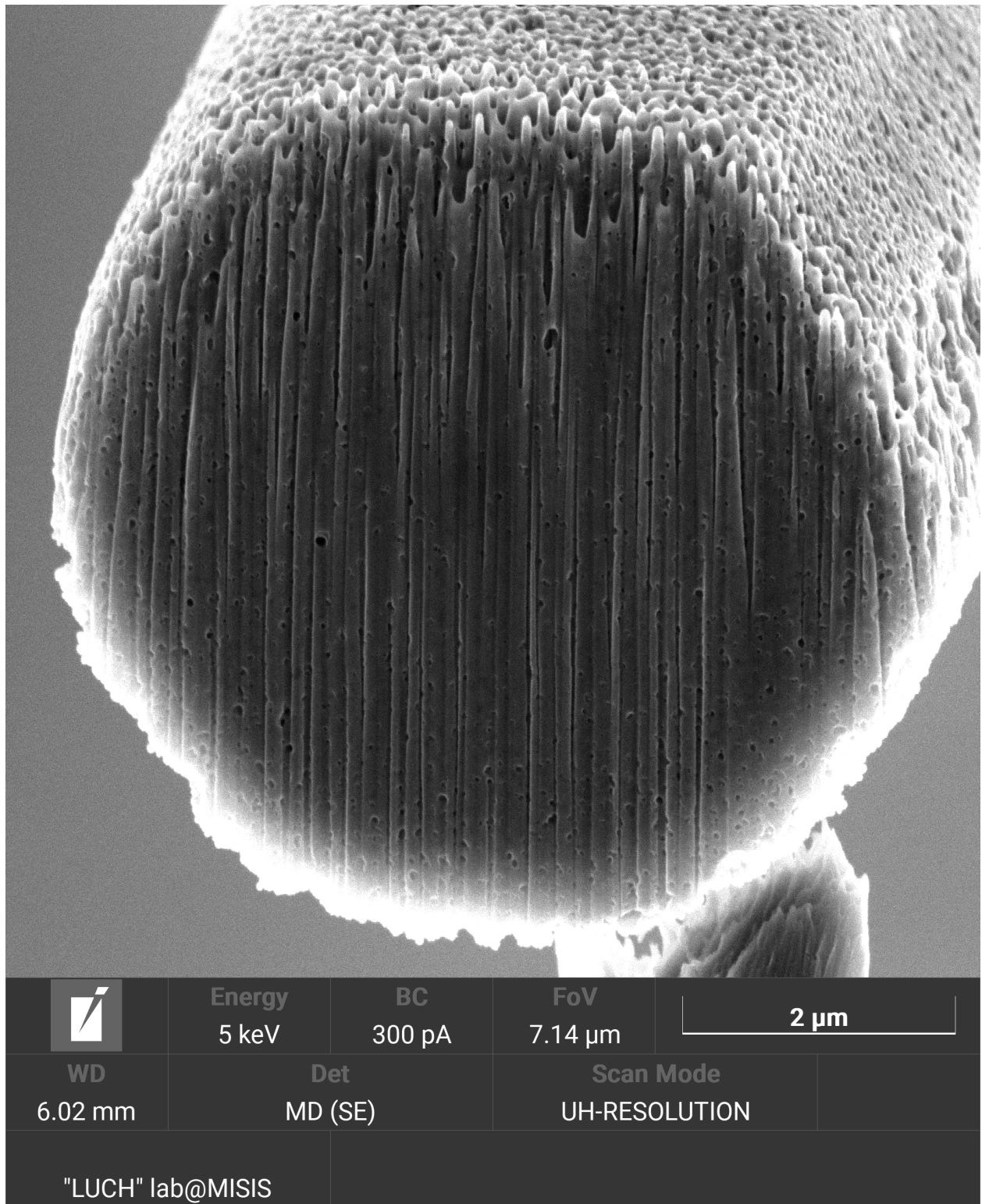


Figure S7d. Original, uncropped, and unadjusted image of BP-0.250 sample obtained by dual-beam scanning electron microscopy (Figure 3d in the main text).