

Supplementary Information

In-situ Polymerized PEDOT with Sulfated Cellulose Nanofibrils for 1D and 2D

Conductors

Benjamin Pingrey[^] and You-Lo Hsieh^{^#*}

[^]Chemical Engineering, [#]Biological and Agricultural Engineering

University of California at Davis, Davis, California 95616-8722, United States

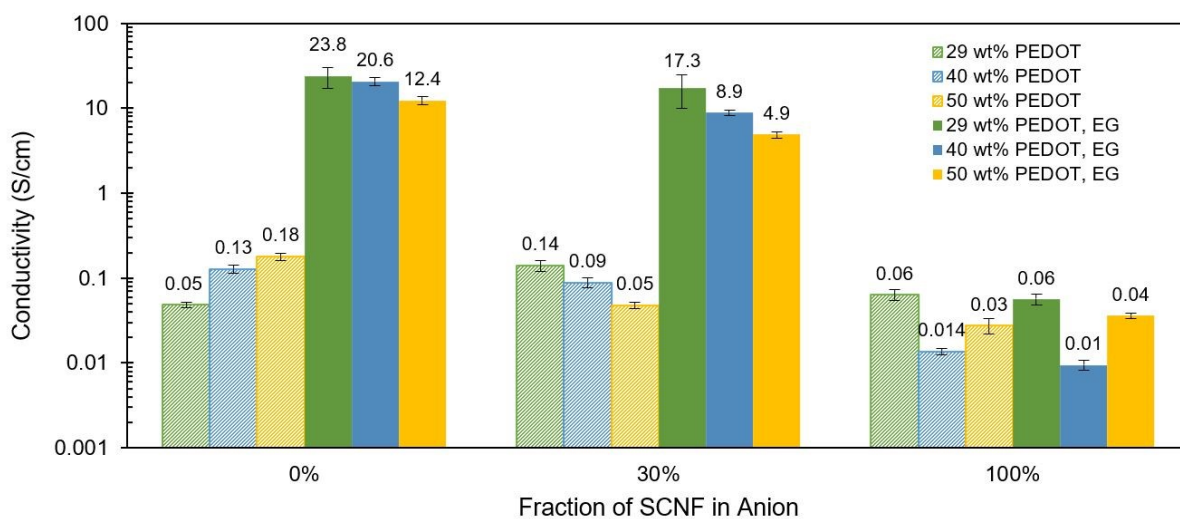


Figure S1. Effect of increased PEDOT fraction on cast film conductivity with and without secondary doping.

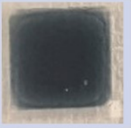












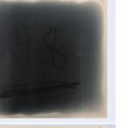


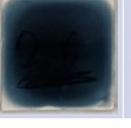




SCNF % in polyanion	0%	10%	30%	50%	70%	90%	100%
Untreated							
EG							
DMSO							

Figure S2. Effect of increased SCNF fraction on conductivity of films cast from varied aqueous PEDOT:PSS/SCNF compositions with and without secondary doping.

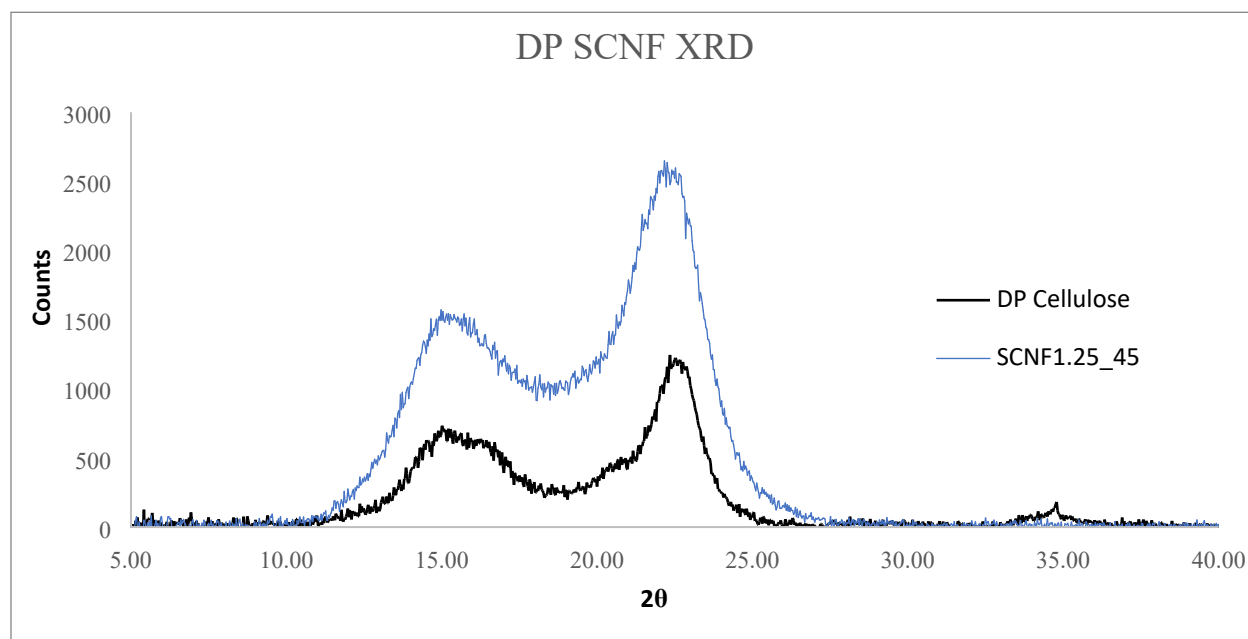


Figure S3. XRD of dissolving pulp cellulose and the SCNF used for complexation with PEDOT.