

Supporting Information

Direct-Ink-Write Printing and Electrospinning of Cellulose Derivatives for Conductive Composite Materials

Runfeng Shi^{1,†}, Jiankang Zhang^{1,†}, Jinheng Yang¹, Yanglei Xu¹, Cuihuan Li¹, Sheng Chen^{1,*}, Feng Xu^{2,*}

¹ Beijing Key Laboratory of Lignocellulosic Chemistry, Beijing Forestry University, Beijing 100083, China; 1196181303@qq.com (R.S.); jiankang_zhang@bjfu.edu.cn (J.Z.); bjfuyjh@163.com (J.Y.); xuyanglei@bjfu.edu.cn (Y.X.); cuihuanli@bjfu.edu.cn (C.L.)

² State Key Laboratory of Biobased Material and Green Papermaking, Qilu University of Technology, Shandong Academy of Sciences, Jinan 250353, China

* Correspondence: shengchen@bjfu.edu.cn (S.C.); xfx315@bjfu.edu.cn (F.X.)

† These authors contributed equally to this work.

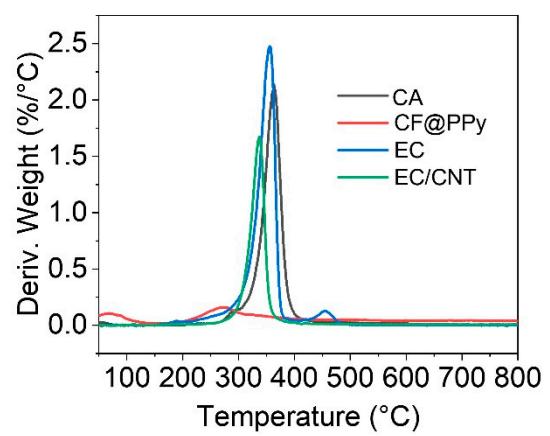


Figure S1. DTG curves of CA, CF@PPy, EC, and EC/CNT.

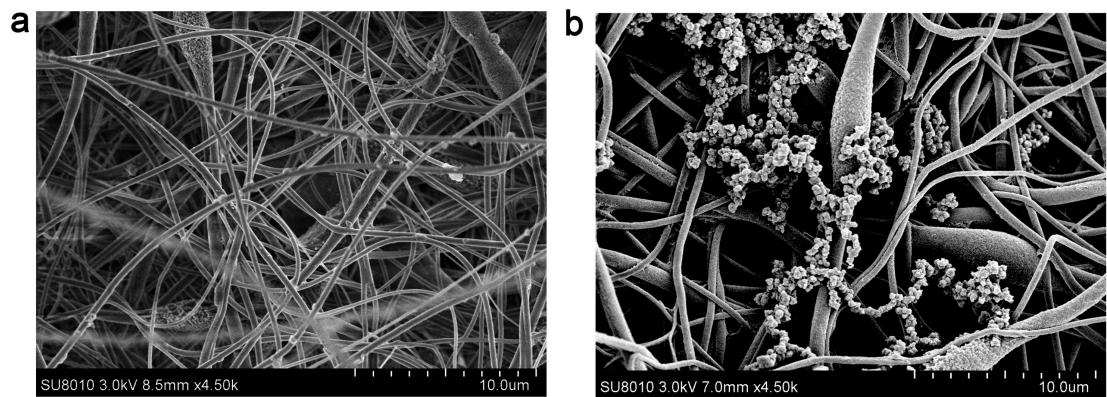


Figure S2. SEM images of the (a) deacetylated CA film and (b) reformed CF@PPy film after filtration.

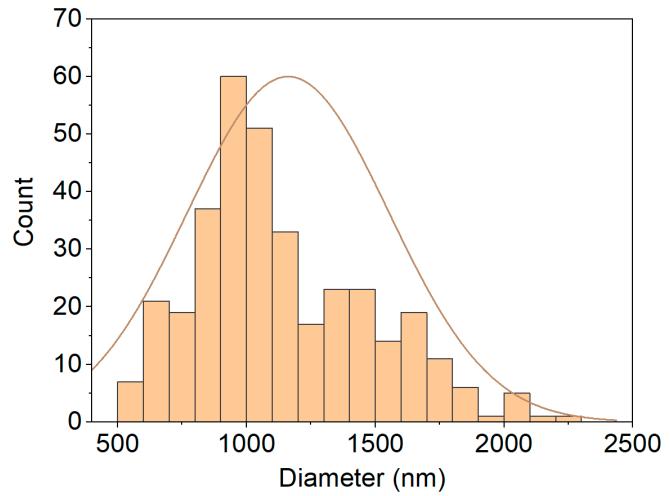


Figure S3. Diameter distribution of CF@PPy.

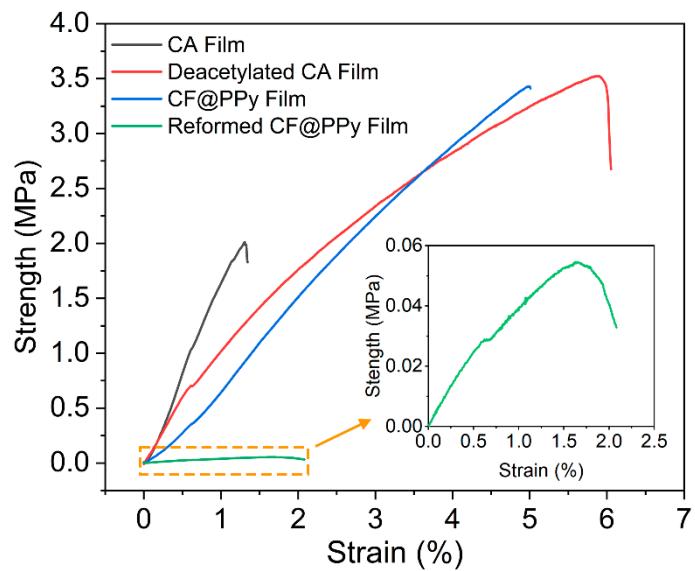


Figure S4. Mechanical property of the CA film, deacetylated CA film, CF@PPy film, and reformed CF@PPy film after filtration.

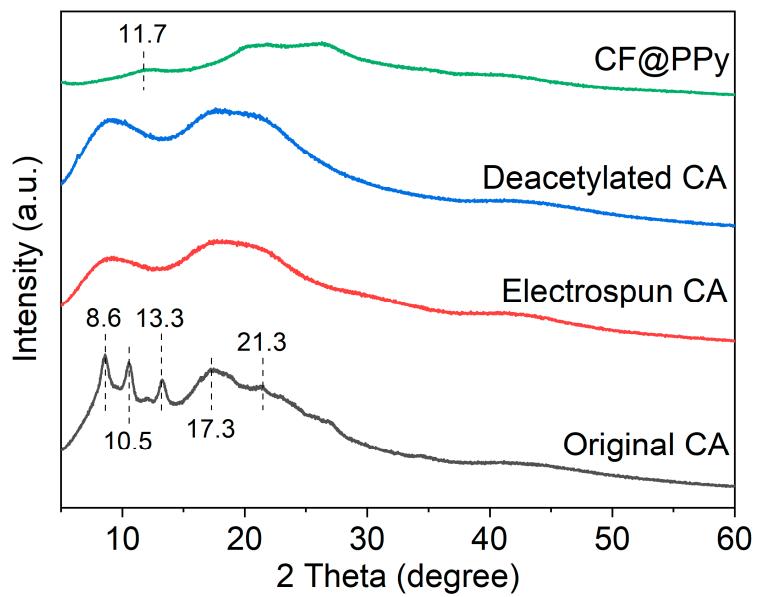


Figure S5. XRD patterns of the original CA powder, electrospun CA, deacetylated CA, and CF@PPy.

Table S1. Comparison of the pressure sensor in our work with others in literature.

References	Materials	Sensitivity (KPa ⁻¹)	Pressure range (KPa)
Our work	Ethyl cellulose and polypyrrole	0.0584	2-8
[60]	Polyurethane sponge and reduced graphene oxide	0.03	2-10
[61]	Polyaniline sponge, reduced graphene oxide	0.042-0.152	0-27
[62]	Graphene/polyimide foam	0.023	3.5-6.5
[63]	Graphene/carbon nanotube foam	0.02	2.5-13
[64]	Polyvinyl alcohol and polyacrylamide	0.02	3.27-6.83
[65]	Polyacrylamide and polyaniline	0.05	1-10
[66]	SiO ₂ nanofibers and alginate	0.24	2.5-6
[67]	Graphene sheet and Cu/Au electrodes	0.0045	0-50
[68]	Graphene foam	0.027	0-50
[69]	CNT/graphene	0.27	0.3-6

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