

Table S1. conductivity values of CWPU/RNCs/PEDOT:PSS nanocomposites with varying PEDOT:PSS contents

Sample	Conductivity (S/cm)
CWPU	$(5.02 \pm 0.30) \times 10^{-14}$
CWPU/RNCs/PEDOT:PSS 2.8	$(1.06 \pm 0.08) \times 10^{-4}$
CWPU/RNCs/PEDOT:PSS 4.3	$(2.20 \pm 0.13) \times 10^{-3}$
CWPU/RNCs/PEDOT:PSS 5.3	$(2.58 \pm 0.22) \times 10^{-3}$
CWPU/PEDOT:PSS 5.3	$(1.08 \pm 0.09) \times 10^{-3}$