

Supplementary Material

Methyl Orange-Doped Polypyrrole Promoting Growth of ZIF-8 on Cellulose Fiber with Tunable Tribopolarity for Triboelectric Nanogenerator

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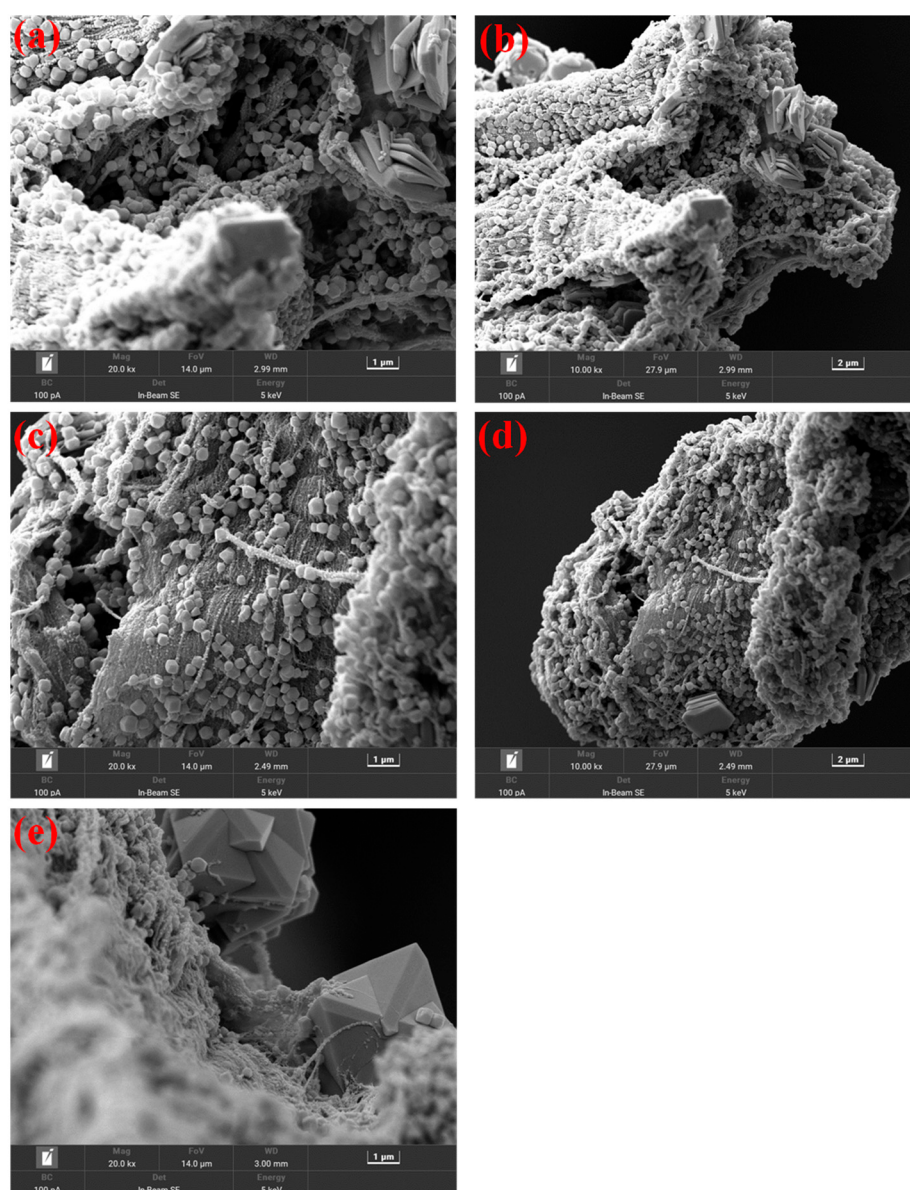


Figure S1. SEM images of ZIF-8/MO-PPy@CelF at different locations.

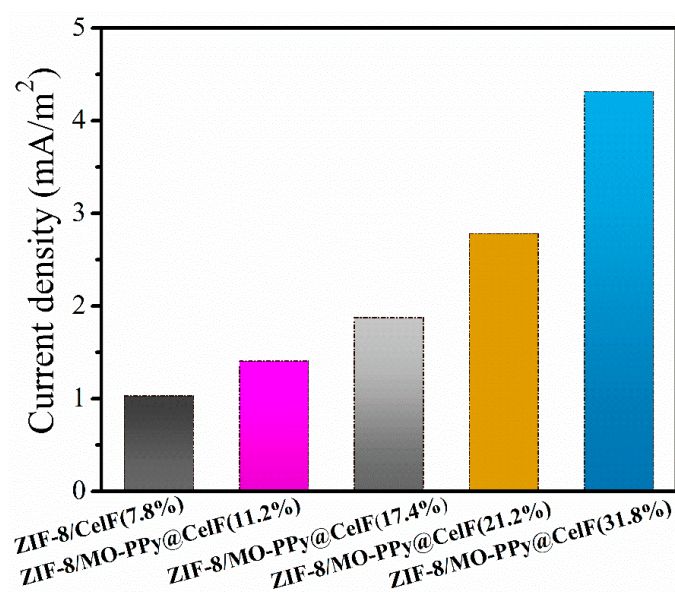


Figure S2. Current densities of samples.

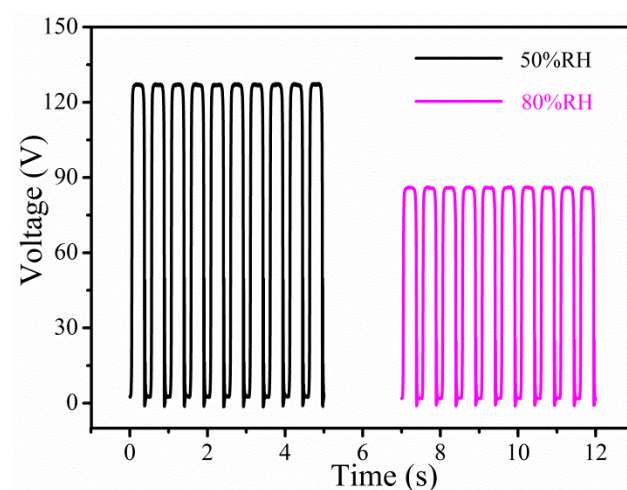


Figure S3. Open circuit voltages at different humidity levels.

Table S1. Output performance comparison of C-TENG.

Positive Material	Negative Material	Voltage (V)	Current (μA)	Power Density (μW/cm ²)	Reference
CNF-phosphorene	PET	5.2	1.8	1.1	62
Methyl-CNF	Nitro-CNF	8	9	-	63
CNF aerogel	PDMS aerogel	60.6	7.7	450	64
CNF-PEI aerogel	PVDF	106.2	9.2	1330	65
CNF-PEI-Ag	FEP	100	1.1	43	66
Alc-S ₅ -CNF	PVDF	7.9	5.13	18.2	27
Polyamide	PFOTES-CNF	28.5	9.3	1.35	67
ZIF-8/MO-PPy@CeF	PTFE	129	6.8	3.33 (33.3 mW/m ²)	This work