Supporting Information

Biomimetic Ant Silk Fiber Mat-based Robust Triboelectric Nanogenerator for Advanced Tactile Sensing Applications

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Table S1. Parameters used to perform the COMSOL simulation of PVC-TENG

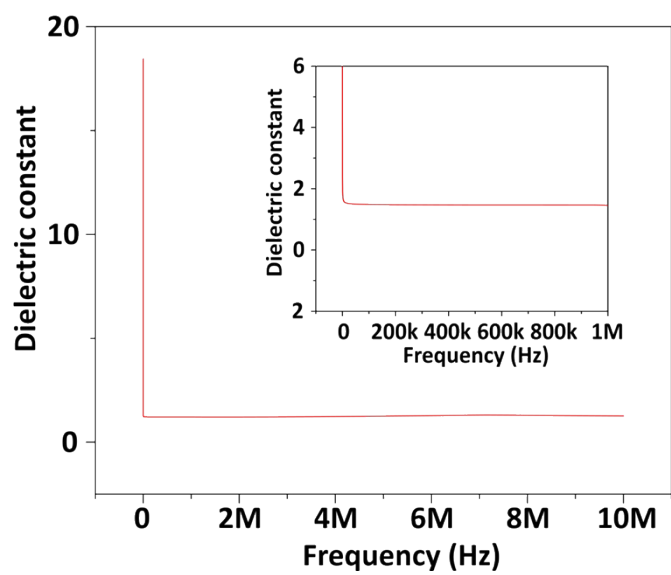| Parameters	Values
The dielectric constant of the air (ε_o)	8.854×10^{-12} Fm^{-1}
The dielectric constant of the SFM (ϵ_r)	1.73
The thickness of the air gap (x_{max})	10 mm
The thickness of the PU film (x_{PU})	0.12 mm
The thickness of the SFM film (x_{SFM})	0.08 mm
Area of the device (A)	40×40 mm^2
Surface charge density	5 μC/cm^2

Figure S1. Dielectric measurement of SFM film.