

Fig. S1

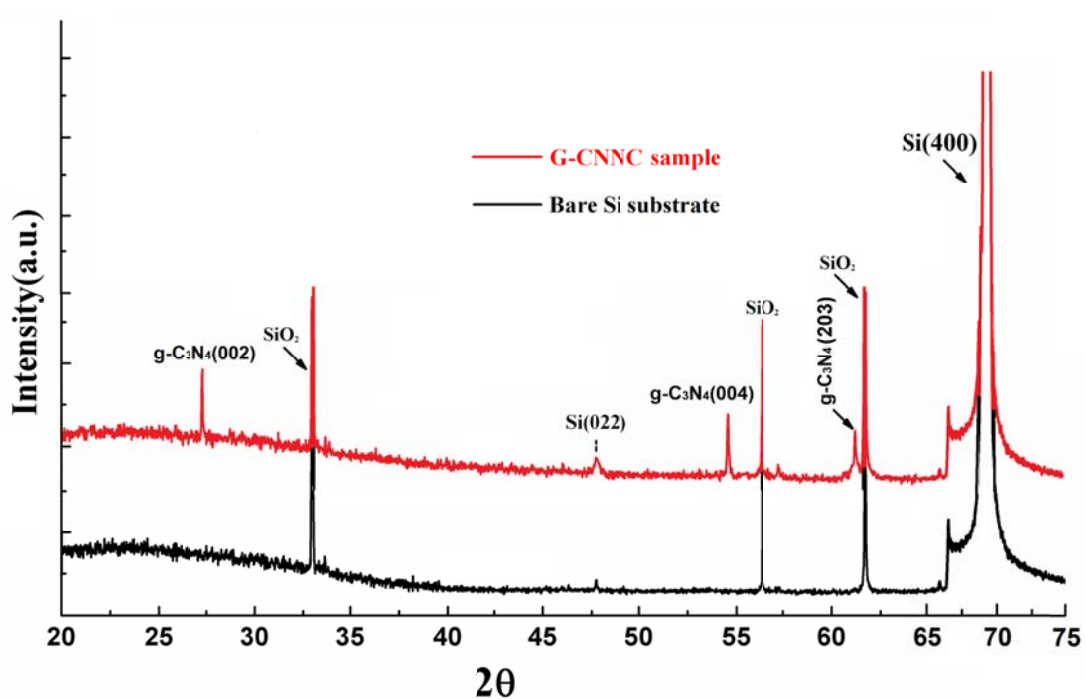


Fig. S2

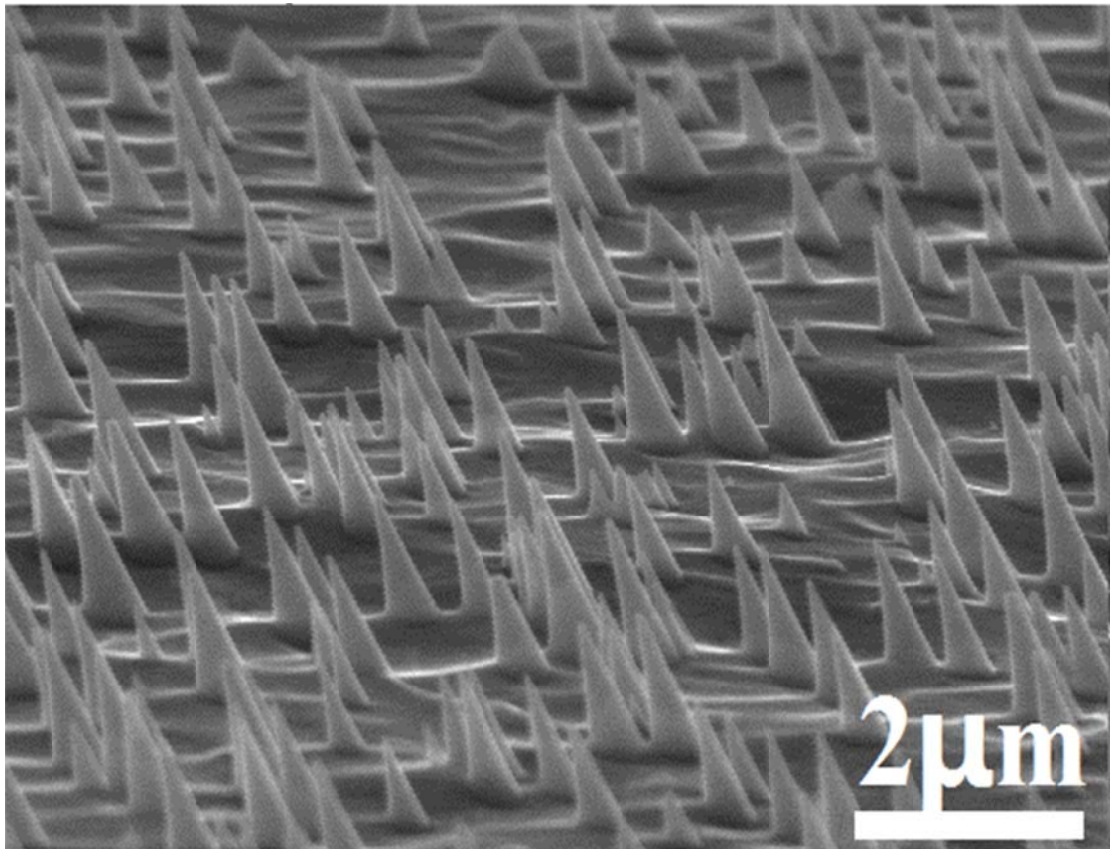


Fig. S3

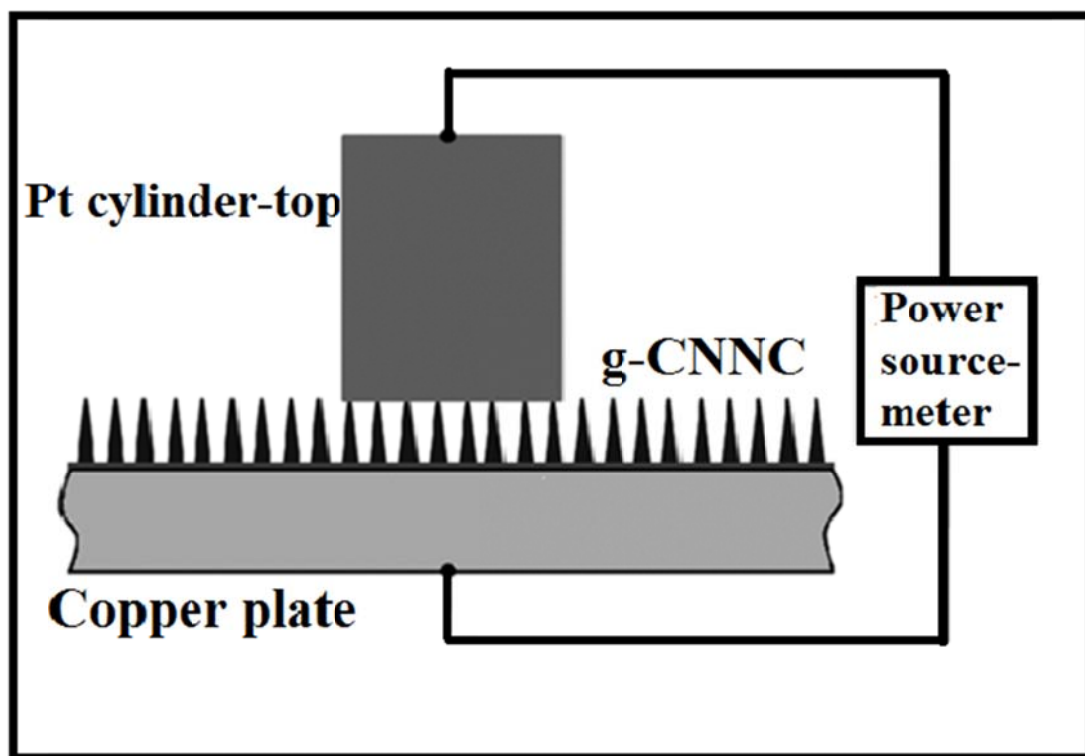


Fig. S4

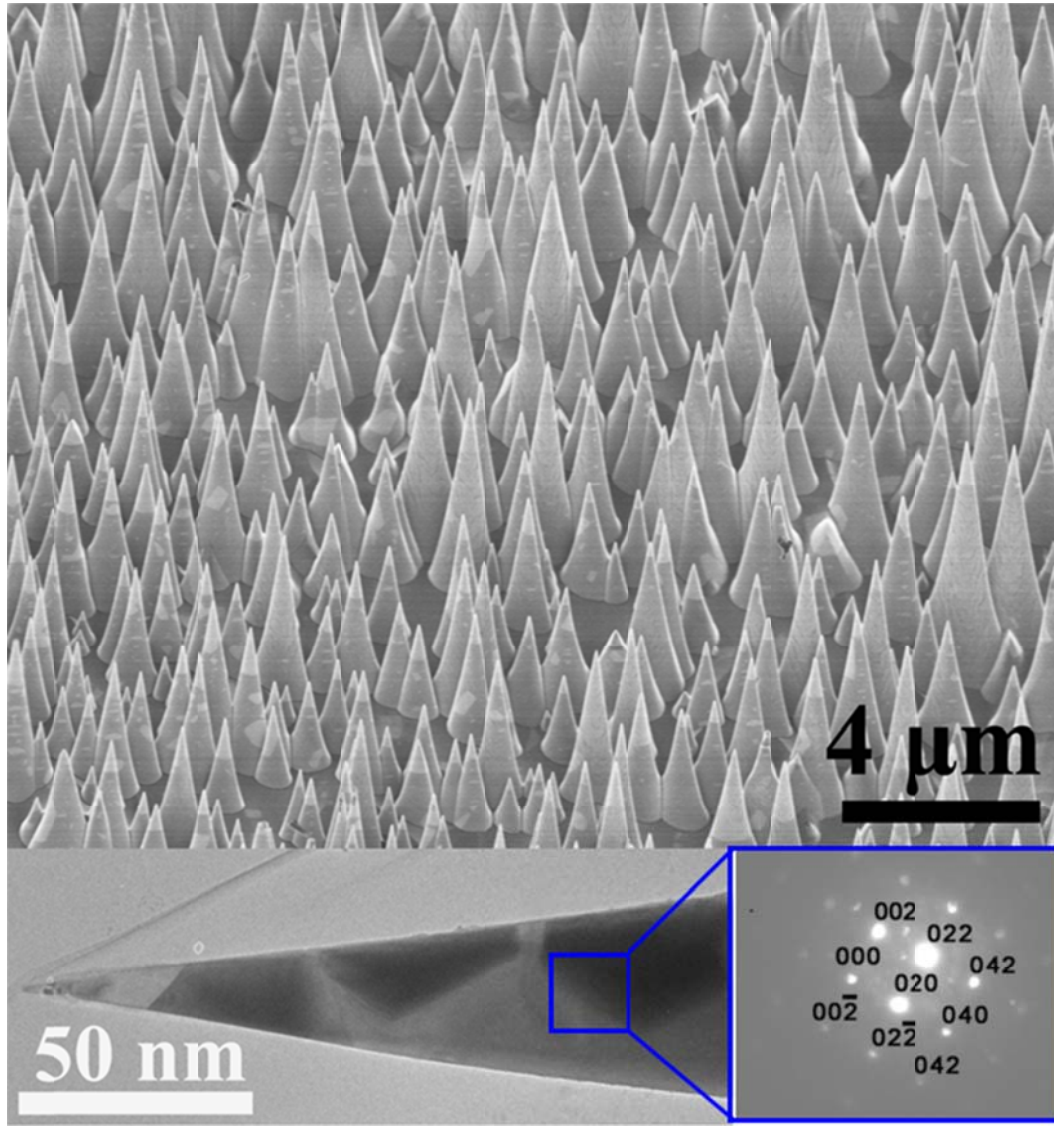


Fig. S5

Table S1- The Electrical testing results and related information.

Type	Test radius (m)	Density (m ⁻²)	h (nm)	r ₁ (nm)	r ₂ (nm)	R _{test} (Ω.m)	R _{norm} (Ω.m)
Si nanocone	0.5×10 ⁻³	5.6×10 ¹¹	2.5×10 ³	20	500	4.42×10 ³	4×10 ³
g-C ₃ N ₄ nanocone	0.5×10 ⁻³	2.4×10 ¹¹	4×10 ³	25	625	3.32	—