Supporting Information

Small and light strain sensors based on graphene coated human hairs

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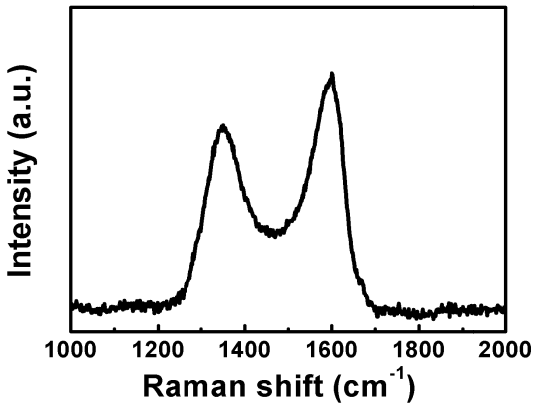

Fig. S1. Raman spectrum of an rGO coated human hair.

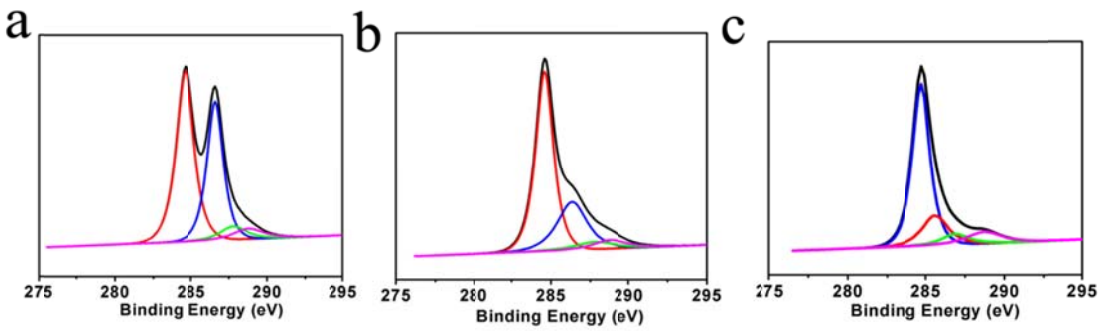

Fig S2. C1s XPS spectra of GO (a), hydrazine reduced GO on rGO-l-hair (b), and ascorbic acid reduced GO on rGO-sp-hair (c).

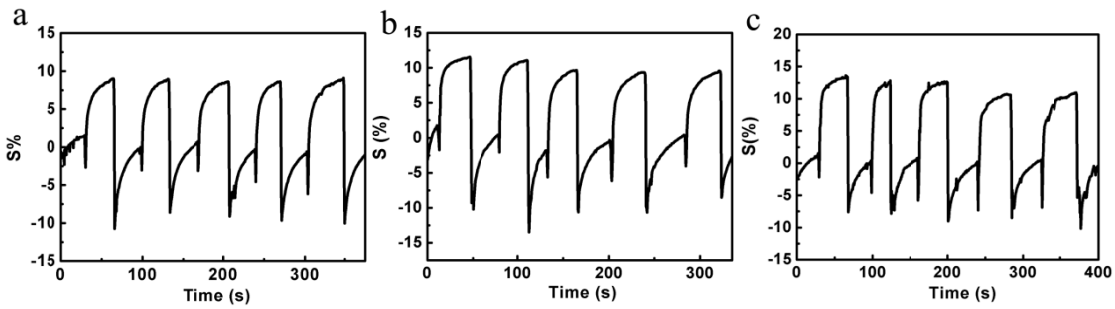

Fig. S3 Current variations of an rGO-l-hair sensor upon repeatedly bending to radians of (a) 3.2, (b) 2.05 and (c) 0.8 cm, respectively.

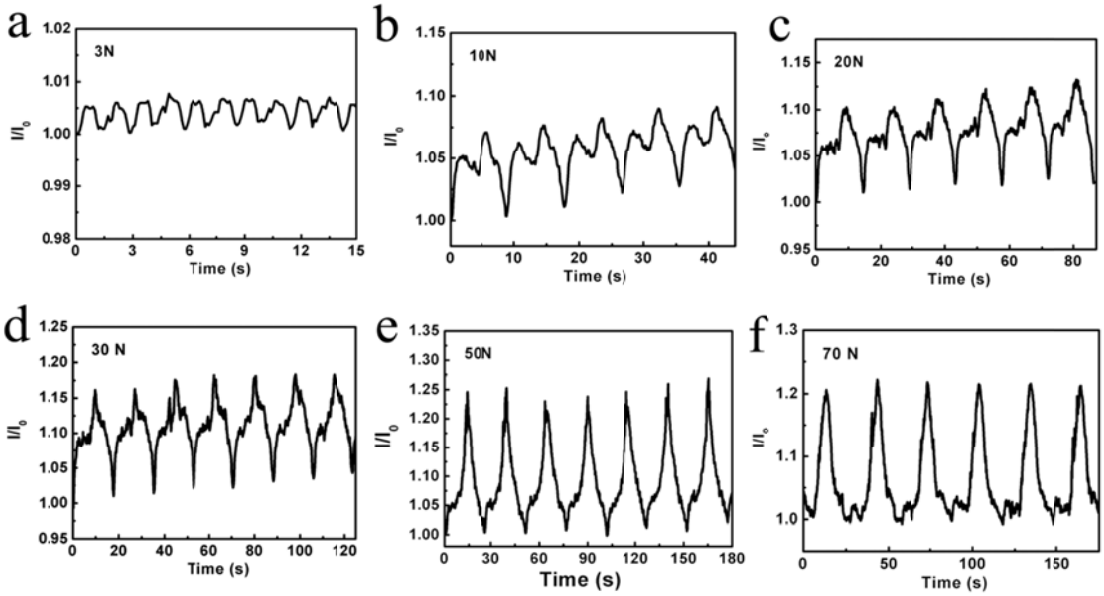

Fig. S4. Current responses of an rGO-sp-hair sensor during successive cycles of alternative compression and releasing with compress forces of (a) 3, (b) 10, (c) 20, (d) 30, (e) 50, and (f) 70 N, respectively.