

Electronic supplementary information of

**Transfer of vertically aligned carbon nanotube arrays onto flexible
substrates for gecko-inspired dry adhesive application**

Yang Li,^{a,b} Hao Zhang,^b Yagang Yao,^{*c} Taotao Li,^c Yongyi Zhang,^c Qingwen Li,^c and
Zhendong Dai,^{*b}

^a *College of Material Science and Technology, Nanjing University of Aeronautics
and Astronautics, Nanjing 210016, China.*

^b *Institute of Bio-inspired Structure and Surface Engineering, College of
Astronautics, Nanjing University of Aeronautics and Astronautics, Nanjing 210016,
China.*

^c *Key Laboratory of Nanodevices and Applications, Suzhou Institute of Nano-tech
and Nano-bionics, Chinese Academy of Sciences, University of Chinese Academy of
Sciences, Suzhou 215123, China.*

^{*c} Corresponding author. Tel: +86-512-62872829; Fax: +86-512-62872552; E-mail:
ygyao2013@sinano.ac.cn (Y. Yao).

^{*b} Corresponding author. Tel: +86-025-84892584; Fax: +86-025-84892581; E-mail:
zddai@nuaa.edu.cn (Z. Dai).



Fig. S1 Photographs of VACNT arrays transferred onto PET substrate with CNTs residues left on silicon substrate.

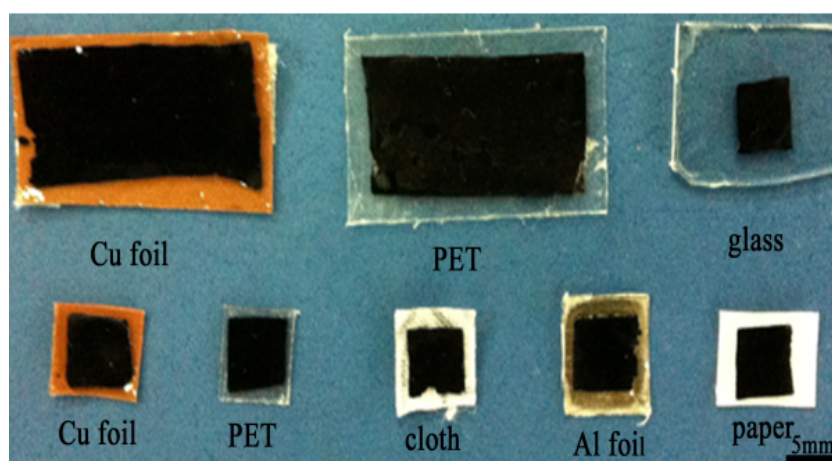


Fig. S2 Photographs of VACNT arrays transferred onto various substrates.

PET				
Cu				
Al				
TPU concentration	10%	15%	20%	25%

Fig. S3 Photographs of the bottom transferred VACNT arrays onto different substrates under different TPU concentration (a) PET, (b) Copper foil, (c) Aluminum.

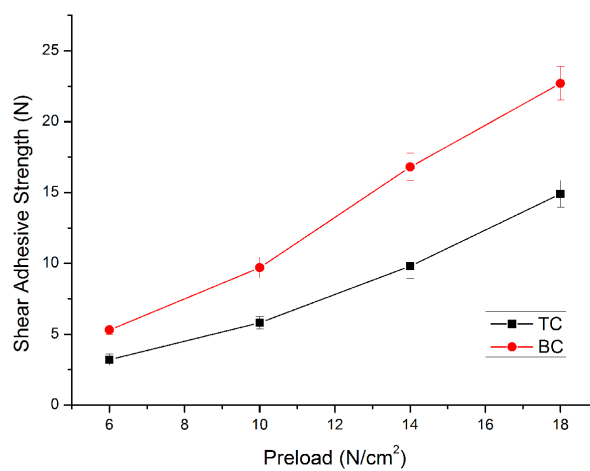


Fig. S4 The effect of preload on the shear adhesive strength of BC and TC samples. The errors represent standard errors calculated from 5 measurements.