

Does size matter? The case of piezoresistive properties of carbon nanotubes/elastomer nanocomposite synthesized through mechanochemistry

Antonio Turco^{a*}, Anna Grazia Monteduro^{a,b}, Francesco Montagna^c, Elisabetta Primiceri^a,

Mariaenrica Frigione^c and Giuseppe Maruccio^{a,b*}

^a CNR Nanotec Institute of Nanotechnology, Via Monteroni, 73100 Lecce, Italy.

^b Department of Mathematics and Physics “Ennio De Giorgi”, University of Salento, Omnics

Research Group, Via per Monteroni, 73100 Lecce, Italy

^c Department of Innovation Engineering, University of Salento, Prov.le Lecce-Monteroni, 73100 Lecce, Italy

Corresponding author: antonio.turco@nanotec.cnr.it; giuseppe.maruccio@unisalento.it

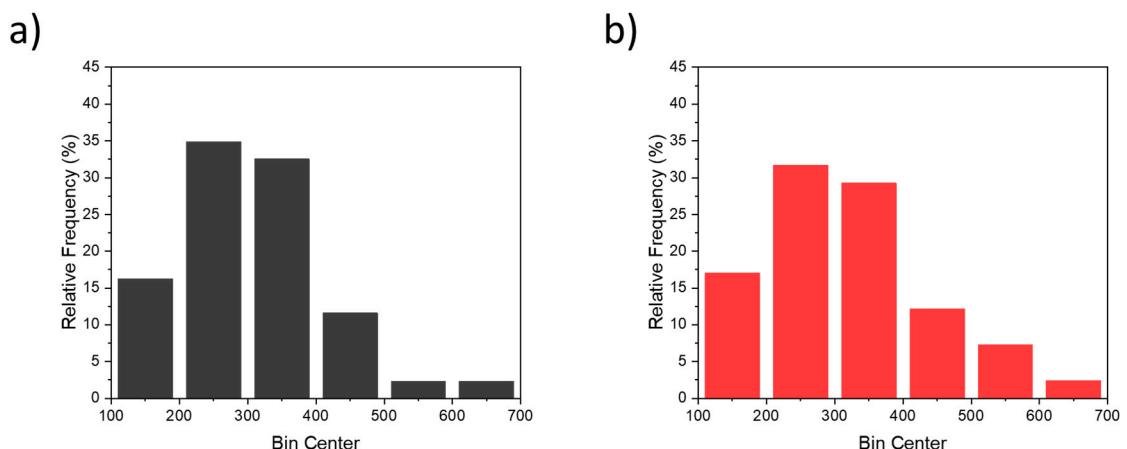


Figure S1. Pore size distribution of (a) PDMS/CNTs_{long} and (b) PDMS/CNTs_{short} foams.

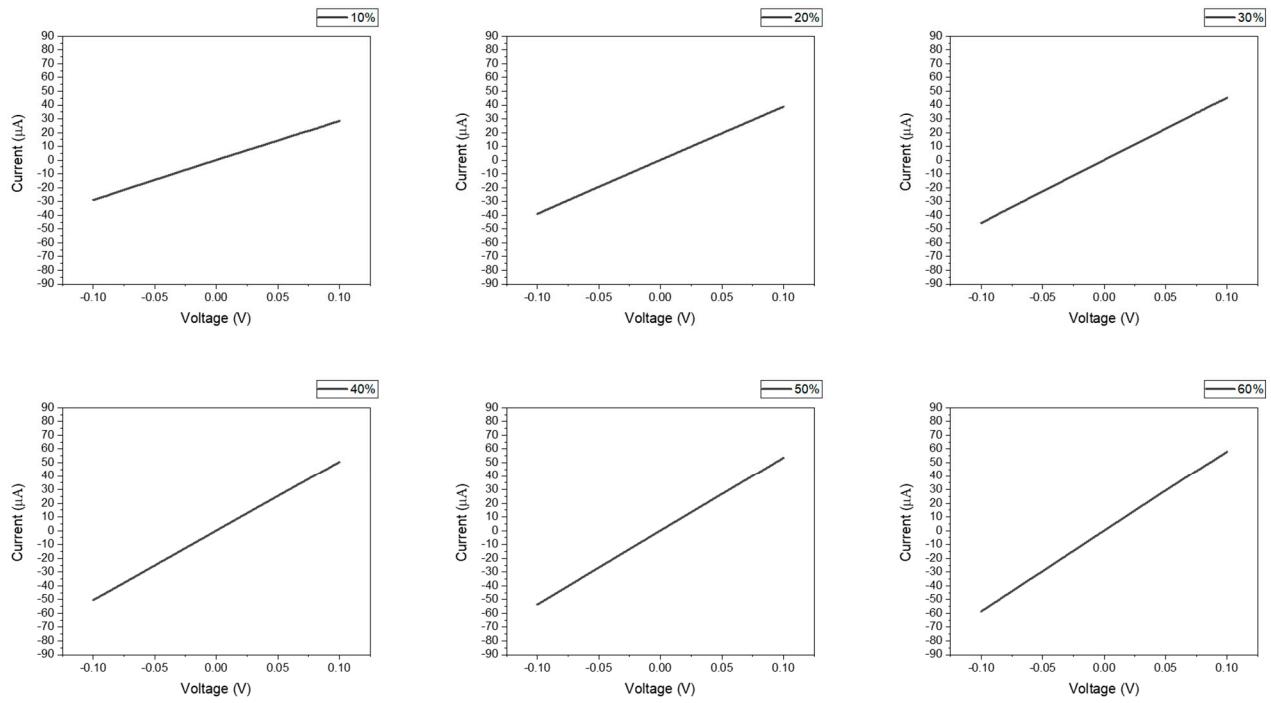


Figure S2. Current–voltage curves recorded at different strain levels from 10 to 60% on PDMS/CNT_{long}.

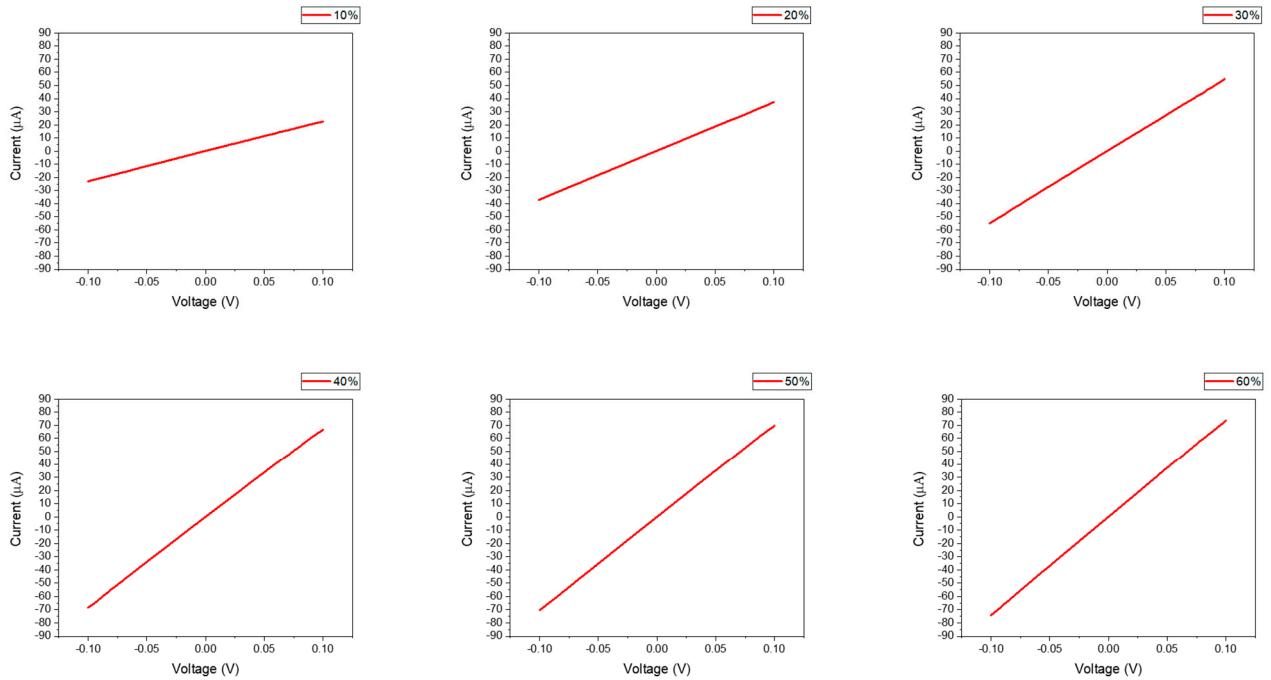


Figure S3. Current–voltage curves recorded at different strain levels from 10 to 60% on PDMS/CNT_{short}.

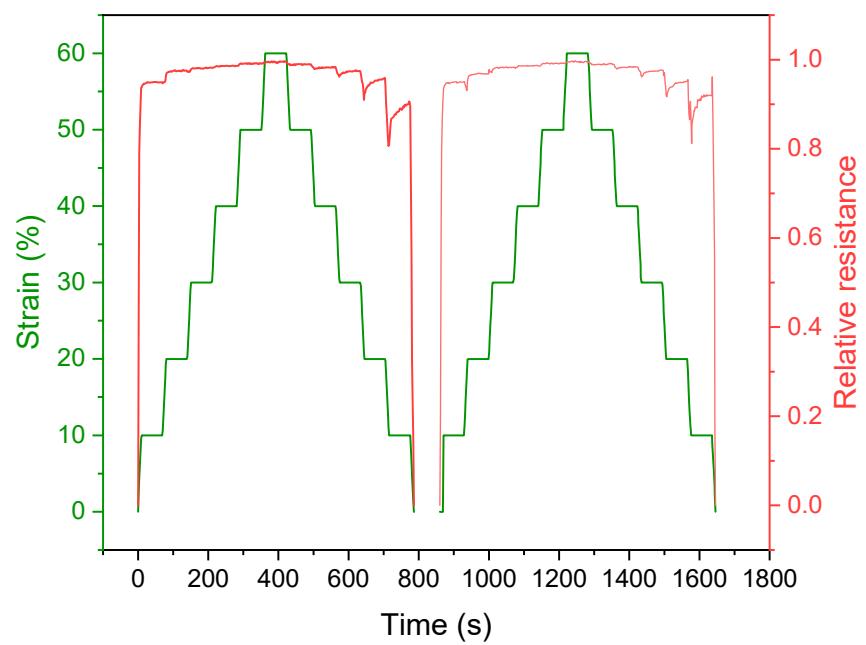


Figure S4. Two consecutive time-resolved current variation measured on PDMS/CNTs_{short} (red curve) sponge subjected to loading/unloading steps from 0 to 60%.