

Accepted Manuscript

The torsional mechanical properties of copper nanowires supported by carbon nanotubes

Hao Huan, Bing Fu, Xiang Ye

PII: S0375-9601(16)30706-X
DOI: <http://dx.doi.org/10.1016/j.physleta.2016.11.017>
Reference: PLA 24189

To appear in: *Physics Letters A*

Received date: 2 September 2016
Revised date: 28 October 2016
Accepted date: 10 November 2016

Please cite this article in press as: H. Huan et al., The torsional mechanical properties of copper nanowires supported by carbon nanotubes, *Phys. Lett. A* (2017), <http://dx.doi.org/10.1016/j.physleta.2016.11.017>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



Highlights

- The torsional properties of Cu NWs supported by CNTs were investigated by MD simulation.
- The size and temperature effects on the torsional properties of Cu NWs were studied.
- Cu NWs can bear larger torsional angle at low torsional rates and high temperatures due to CNTs.

Download English Version:

<https://daneshyari.com/en/article/5496792>

Download Persian Version:

<https://daneshyari.com/article/5496792>

[Daneshyari.com](https://daneshyari.com)