Accepted Manuscript

Transport of a simple liquid through carbon nanotubes: role of nanotube size

Syed Bilal Ahmed, Yunzhen Zhao, Chang Fang, Jiaye Su

PII: S0375-9601(17)30842-3

DOI: http://dx.doi.org/10.1016/j.physleta.2017.09.003

Reference: PLA 24716

To appear in: Physics Letters A

Received date: 7 June 2017 Revised date: 25 August 2017 Accepted date: 4 September 2017



Please cite this article in press as: S.B. Ahmed et al., Transport of a simple liquid through carbon nanotubes: role of nanotube size, *Phys. Lett. A* (2017), http://dx.doi.org/10.1016/j.physleta.2017.09.003

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

- We use MD simulations to study the transport of a simple liquid through CNTs with different size.
- The liquid flow, occupancy and translocation time exhibit interesting relations with the CNT diameter or length.
- The wave-like radial density profiles reveal the different liquid structures depending on the CNT diameter.

Download English Version:

https://daneshyari.com/en/article/5496253

Download Persian Version:

https://daneshyari.com/article/5496253

<u>Daneshyari.com</u>