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**In this issue**

## Research Article

Open Access Research Article PTZAID:IJNNN-4-124

### Simulation of the Behavior of Carbon Nanotori during Unfolding: A Study of Stability and Electronic Structure

Published On: January 29, 2018 | Pages: 004 - 008

Author(s): Olga E Glukhova* and Michael M Slepchenkov

In this work, we present an in silico study of the dynamic behavior of a carbon nanotorus during the localized breaking of the C-C bonds in its atomic network. It is shown that the unfolding of a carbon nanotorus is accompanied by the appearance of deformation waves running along the atomic network of the carbon structure. We estimate energy stability of a carbon n ...

Abstract View Full Article View DOI: 10.17352/2455-3492.000024

## Mini Review

Open Access Mini Review PTZAID:IJNNN-4-123

### Sintering process and catalysis

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Author(s): Nasrallah M Deraz*

Sintering process has strong effect on the active surface area and catalytically active sites involved the catalyst. This process has two mechanisms depending on the thermal diffusion of the constituents of catalysts. ...

Abstract View Full Article View DOI: 10.17352/2455-3492.000023