

## Accepted Manuscript

Nanohashtag structures based on carbon nanotubes and molecular linkers

Connor W. Frye , Thomas R. Rybolt

PII: S0039-6028(17)30089-4  
DOI: [10.1016/j.susc.2017.11.005](https://doi.org/10.1016/j.susc.2017.11.005)  
Reference: SUSC 21139



To appear in: *Surface Science*

Received date: 2 February 2017  
Revised date: 3 November 2017  
Accepted date: 7 November 2017

Please cite this article as: Connor W. Frye , Thomas R. Rybolt , Nanohashtag structures based on carbon nanotubes and molecular linkers, *Surface Science* (2017), doi: [10.1016/j.susc.2017.11.005](https://doi.org/10.1016/j.susc.2017.11.005)

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

- Nanohashtag structures based on carbon nanotubes and molecular linkers
- Connor W. Frye, Thomas R. Rybolt
- A stabilized nanohashtag structure was modeled with molecular mechanics.
- The nanohashtag consisted of four carbon nanotubes and four molecule linkers.
- A  $C_{280}H_{96}$  linker was based on a cyclooctatetraene tether with four corannulene arms.
- Other linkers including  $C_{276}H_{92}N_8O_8$  were developed that included hydrogen bonding.
- CNTs with these linkers favored perpendicular structures, rather than parallel ones.

Download English Version:

<https://daneshyari.com/en/article/7844829>

Download Persian Version:

<https://daneshyari.com/article/7844829>

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