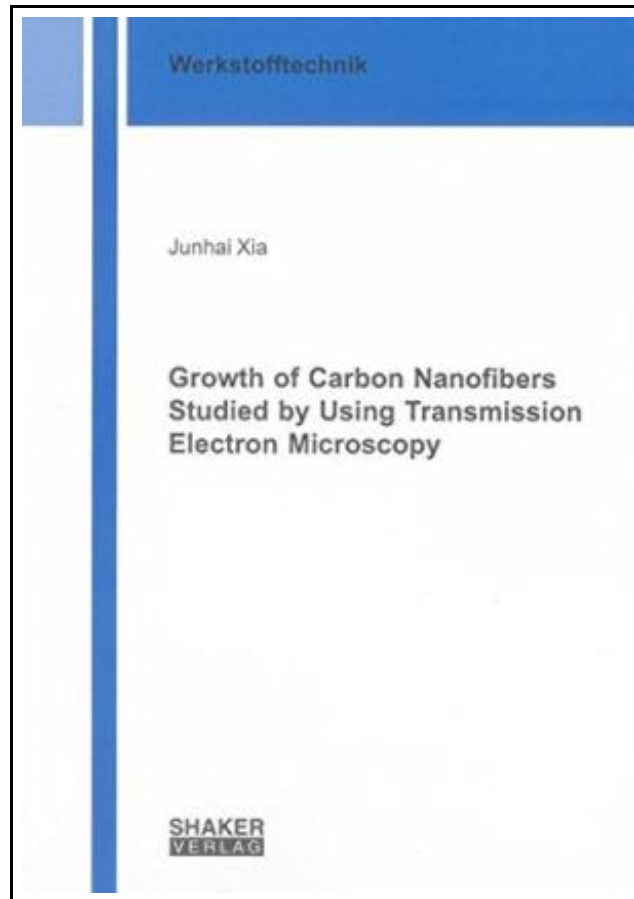


## Growth of Carbon Nanofibers Studied by Using Transmission Electron Microscopy



Filesize: 4.15 MB

### ***Reviews***

*This ebook is worth acquiring. It is rally fascinating throgh looking at period of time. I am quickly could get a pleasure of reading a created pdf.*

***(Mekhi Crona)***


## GROWTH OF CARBON NANOFIBERS STUDIED BY USING TRANSMISSION ELECTRON MICROSCOPY



To read **Growth of Carbon Nanofibers Studied by Using Transmission Electron Microscopy** PDF, remember to click the button listed below and save the file or have accessibility to additional information that are in conjunction with GROWTH OF CARBON NANOFIBERS STUDIED BY USING TRANSMISSION ELECTRON MICROSCOPY ebook.

Shaker Verlag Mai 2010, 2010. Buch. Book Condition: Neu. 21x14.8x cm. Neuware - This work is focused on studies of structure, morphology and growth of carbon nanofibers (CNFs), which are synthesized using chemical vapor deposition methods. The structure and morphology of the NFs are investigated by means of transmission electron microscopy (TEM). Formation mechanism of the helix CNFs has attracted much attention of research in recent years. In the present research the morphology and structure of both CNFs and related catalyst particles are investigated in details by means of electron imaging and electron diffraction techniques. The relations between the catalysts and the morphology of the CNFs are determined. It is found out that two types of helical structures exist, i.e. single-side-growth helical structure and double-side-growth helical structure, depending on catalyst materials. For the Fe<sub>3</sub>C catalyst the carbon nanohelices (CNHs) are related to the hexahedron morphology of the catalyst particles at the tip of the fiber. Difference in growth velocities on different crystallographic surface planes leads to rotation of the catalyst particle, and in turn to the rotation of the growth fronts of nanohelix. For the Cu catalyst, it is found that the size of the catalyst particles plays a crucial role in the formation of the helical structures. Small size of catalyst particles favors formation of the helical fibers, while large size of catalysts results in the straight fibers. The size effects are found additionally morphology-dependent of the Cu catalysts. 117 pp. Englisch.

 [Read Growth of Carbon Nanofibers Studied by Using Transmission Electron Microscopy Online](#)

 [Download PDF Growth of Carbon Nanofibers Studied by Using Transmission Electron Microscopy](#)

 [Download ePUB Growth of Carbon Nanofibers Studied by Using Transmission Electron Microscopy](#)

## You May Also Like



### [PDF] Programming in D

Click the link listed below to download "Programming in D" document.

[Download ePub »](#)



### [PDF] The Java Tutorial (3rd Edition)

Click the link listed below to download "The Java Tutorial (3rd Edition)" document.

[Download ePub »](#)



### [PDF] Adobe Indesign CS/Cs2 Breakthroughs

Click the link listed below to download "Adobe Indesign CS/Cs2 Breakthroughs" document.

[Download ePub »](#)



### [PDF] Have You Locked the Castle Gate?

Click the link listed below to download "Have You Locked the Castle Gate?" document.

[Download ePub »](#)



### [PDF] Psychologisches Testverfahren

Click the link listed below to download "Psychologisches Testverfahren" document.

[Download ePub »](#)



### [PDF] TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)

Click the link listed below to download "TJ new concept of the Preschool Quality Education Engineering the daily learning book of: new happy learning young children (2-4 years old) in small classes (3)(Chinese Edition)" document.

[Download ePub »](#)



**[PDF] The Mystery of God s Evidence They Don t Want You to Know of (Paperback)**

Click the link beneath to get "The Mystery of God s Evidence They Don t Want You to Know of (Paperback)" PDF document.

[Download ePub »](#)



**[PDF] Illustrated Computer Concepts and Microsoft Office 365 Office 2016 (Paperback)**

Click the link beneath to get "Illustrated Computer Concepts and Microsoft Office 365 Office 2016 (Paperback)" PDF document.

[Download ePub »](#)



**[PDF] Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package**

Click the link beneath to get "Who Am I in the Lives of Children? an Introduction to Early Childhood Education, Enhanced Pearson Etext with Loose-Leaf Version -- Access Card Package" PDF document.

[Download ePub »](#)



**[PDF] The Voyagers Series - Europe: A New Multi-Media Adventure Book 1 (Paperback)**

Click the link beneath to get "The Voyagers Series - Europe: A New Multi-Media Adventure Book 1 (Paperback)" PDF document.

[Download ePub »](#)



**[PDF] Most cordial hand household cloth (comes with original large papier-mache and DVD high-definition disc) (Beginners Korea(Chinese Edition)**

Click the link beneath to get "Most cordial hand household cloth (comes with original large papier-mache and DVD high-definition disc) (Beginners Korea(Chinese Edition)" PDF document.

[Download ePub »](#)



**[PDF] Who Am I in the Lives of Children? an Introduction to Early Childhood Education with Enhanced Pearson Etext -- Access Card Package (Paperback)**

Click the link beneath to get "Who Am I in the Lives of Children? an Introduction to Early Childhood Education with Enhanced Pearson Etext -- Access Card Package (Paperback)" PDF document.

[Download ePub »](#)