



Electron Microscopy Of Nanotubes

Florian Banhart



Electron Microscopy Of Nanotubes:

Electron Microscopy of Nanotubes, 2004 **In Situ Transmission Electron Microscopy Studies of Carbon Nanotube Nucleation Mechanism and Carbon Nanotube-Clamped Metal Atomic Chains** Dai-Ming Tang, 2014-07-08

Using an in situ transmission electron microscopy TEM approach to investigate the growth mechanism of carbon nanotubes CNTs as well as the fabrication and properties of CNT clamped metal atomic chains MACs is the focus of the research summarized in this thesis. The application of an in situ TEM approach in the above mentioned research provides not only real time observation but also monitored machining and structural evolution at the atomic level. In this thesis the author introduces a CNT tubular nano furnace that can be operated under TEM for investigation of the CNT nucleation mechanism. By studying the nucleation process of CNTs in the presence of various catalysts including iron based metallic catalysts and silicon oxide based non metallic catalysts the physical states of the catalysts as well as the nucleation and growth process of CNTs are revealed. Based on the understanding of the nucleation mechanism the author proposes a hetero epitaxial growth strategy of CNTs from boron nitride which provides a new route for the controllable growth of CNTs. In addition the author presents an electron beam assisted nanomachining technique and the fabrication of a CNT clamped MAC prototype device based on this technique. The formation process of CNT clamped Fe atomic chains ACs can be monitored with atomic resolution. The demonstrated quantized conductance and uninfluenced half metallic properties of Fe ACs indicate that CNTs can be promising nanoscale electrodes or interconnectors for the linking and assembly of nano and subnano structures.

Electron Microscopy of Nanotubes Zhong Lin Wang, Chun Hui, 2003. The book contains 12 chapters and the authors for the chapters are the world prominent scientists specializing in the field. The contents of the book can be separated into three parts. The first part composed of chapters 1-6 is about the diffraction imaging and spectroscopy of carbon based nanotubes. The second part chapters 7-9 describes the physical property nanomeasurements of carbon nanotubes based on in situ TEM. The last part is about non carbon based tubular structures and related structures.

Electron Microscopy of Nanotubes Zhong-lin Wang, Chun Hui, 2013-11-27. Research in carbon nanotubes has reached a horizon that is impacting a variety of fields such as nanoelectronics, flat panel display, composite materials, sensors, nanodevices and novel instrumentation. The unique structures of the nanotubes result in numerous superior physical and chemical properties such as the strongest mechanical strength, the highest thermal conductivity, room temperature ballistic quantum conductance, electromechanical coupling and super surface functionality. Several books are available that introduce the synthesis, physical and chemical properties and applications of carbon nanotubes. Among the various analytical techniques, high resolution transmission electron microscopy HRTEM has played a key role in the discovery and characterization of carbon nanotubes. It may be claimed that carbon nanotubes might not have been discovered without using HRTEM. There is a great need for a book that addresses the theory, techniques and applications of electron microscopy and associated techniques for nanotube research.

The objective of this book is to fill this gap The potential of HRTEM is now well accepted in wide ranging communities such as materials science physics chemistry and electrical engineering TEM is a powerful technique that is indispensable for characterizing nanomaterials and is a tool that each major research institute must have in order to advance its research in nanotechnology

Electron Microscopy of Carbon Nanotubes Sarah Louise Cullen,1995 *In-situ Electron Microscopy At High Resolution* Florian Banhart,2008-07-29 In situ high resolution electron microscopy is a modern and powerful technique in materials research physics and chemistry In situ techniques are hardly treated in textbooks of electron microscopy Thus there is a need to collect the present knowledge about the techniques and achievements of in situ electron microscopy in one book Since high resolution electron microscopes are available in most modern laboratories of materials science more and more scientists or students are starting to work on this subject In this comprehensive volume the most important techniques and achievements of in situ high resolution electron microscopy will be reviewed by renowned experts Applications in several fields of materials science will also be demonstrated

Electron Microscopy Studies on Functional Carbon Nanotubes Elzbieta Pach,2017 La presente tesis doctoral se centra en el estudio exhaustivo de nanotubos de carbono funcionales por medio de técnicas de microscopía electrónica Los nanotubos de carbono CNTs funcionales están atrayendo una creciente atención debido a su potencial uso para aplicaciones biomédicas incluyendo para la adquisición de imágenes in vivo acumulación selectiva en tumores y sistemas de administración de fármacos Una ventaja intrínseca de los nanotubos de carbono es que su cavidad interna puede llenarse con una carga útil de interés mientras que la superficie externa puede modificarse para mejorar su dispersabilidad y biocompatibilidad Debido a su potencial aplicación en el campo biomédico es esencial una caracterización detallada de las muestras en todas las etapas de su proceso de preparación purificación acortamiento llenado y funcionalidad externa Para lograr este objetivo en esta tesis doctoral hemos empleado tanto los análisis ya establecidos que incluye microscopía electrónica de transmisión de alta resolución para estudiar la estructura del material de relleno o espectroscopia de dispersión de energía de rayos X para evaluar su composición pero también hemos explorado el uso de otras técnicas para ampliar las posibilidades de caracterización de las muestras En este sentido hemos optimizado las condiciones para el estudio de las longitudes de CNTs monocapa purificados por microscopía electrónica de barrido de alta resolución HRSEM con sensibilidad superficial Además la microscopía electrónica de transmisión y barrido STEM a bajos voltajes se ha demostrado como una técnica eficiente y rápida para evaluar el rendimiento del relleno y la pureza del material De hecho la combinación de alta resolución espacial y el trabajo a bajos voltajes de esta técnica la ha hecho particularmente adecuada para el estudio de la interacción de nanotubos de carbono funcionales con muestras biológicas como por ejemplo células Algunos de los compuestos con interés para aplicaciones biomédicas empleados en este trabajo tienen una estructura laminar Se sabe que los materiales laminares forman monocapas que pueden tener propiedades mejoradas o nuevas debido a efectos de confinamiento Los CNT pueden actuar como plantillas para guiar los materiales

laminares a formar nanotubos monocapa Este es el caso de los haluros de lutecio y el yoduro de plomo En esta tesis de doctorado hemos conseguido la formaci n de nanotubos de haluros de lutecio de tama o subnanom trico y su naturaleza tubular se ha demostrado mediante STEM con corrector de aberraciones y simulaciones de imagen Adem s se ha logrado el crecimiento con alto rendimiento de nanotubos de PbI₂ en el exterior de CNTs La estructura de los h bridos se ha revelado mediante STEM con aberraci n corregida y tomograf a electr nica Cabe destacar que las propiedades pticas de los h bridos difieren de las del PbI₂ en masa El desplazamiento azul observado por fotoluminiscencia se ha confirmado mediante an lisis en h bridos PbI₂ CNT individuales por catodoluminiscencia STEM En conclusi n durante este proyecto de doctorado la gama de t cnicas de microscop a electr nica utilizadas para el estudio de CNT funcionales se ha ampliado para obtener una caracterizaci n exhaustiva de las muestras

Scanning Electron Microscopy of Aligned Carbon Nanotubes (CNTs) N. M. Mohamed,2005

Characterisation of Carbon Nanotubes Using Transmission Electron Microscopy and Scanning Tunneling Microscopy Walter Knechtel,1998

Carbon Nanotubes M. Meyyappan,2004-07-28 Carbon nanotubes with their extraordinary mechanical and unique electronic properties have garnered much attention in the past five years With a broad range of potential applications including nanoelectronics composites chemical sensors biosensors microscopy nanoelectromechanical systems and many more the scientific community is more moti

Electronic Properties of Carbon Nanotubes Jose Mauricio Marulanda,2011-07-27 Carbon nanotubes CNTs discovered in 1991 have been a subject of intensive research for a wide range of applications These one dimensional 1D graphene sheets rolled into a tubular form have been the target of many researchers around the world This book concentrates on the semiconductor physics of carbon nanotubes it brings unique insight into the phenomena encountered in the electronic structure when operating with carbon nanotubes This book also presents to reader useful information on the fabrication and applications of these outstanding materials The main objective of this book is to give in depth understanding of the physics and electronic structure of carbon nanotubes Readers of this book should have a strong background on physical electronics and semiconductor device physics This book first discusses fabrication techniques followed by an analysis on the physical properties of carbon nanotubes including density of states and electronic structures Ultimately the book pursues a significant amount of work in the industry applications of carbon nanotubes

Carbon Nanotubes Ado Jorio,Gene Dresselhaus,Mildred S. Dresselhaus,2007-12-18 Building on the success of its predecessor Carbon Nanotubes Synthesis Structure Properties and Applications this second volume focuses on those areas that have grown rapidly in the past few years Contributing authors reflect the multidisciplinary nature of the book and are all leaders in their particular areas of research Among the many topics they cover are graphene and other carbon like and tube like materials which are likely to affect and influence developments in nanotubes within the next five years Extensive use of illustrations enables you to better understand and visualize key concepts and processes

Nanotubes and Nanofibers Yury Gogotsi,2006-06-20 Size Shape and Synthesis Key to Tuning

Properties The discovery and rapid evolution of carbon nanotubes have led to a vastly improved understanding of nanotechnology as well as dozens of possible applications for nanomaterials of different shapes and sizes ranging from composites to biology medicine energy transportation a Electron Microscopy Studies of Carbon Nanotubes, Metal Encapsulation, Fullerides, and Dispersed Carbide Mingqi Liu,1994 **Industrial Applications Of Electron Microscopy** Zhigang Li,2002-12-04 Providing proven strategies for solutions to research development and production dilemmas this reference details the instrumentation and underlying principles for utilization of electron microscopy in the manufacturing automotive semiconductor photographic film pharmaceutical chemical mineral forensic glass and pulp and paper industries The book covers safety calibration and troubleshooting techniques as well as methods in sample preparation and image collection interpretation and analysis It includes contributions from microscopy experts based at major corporations and scientists from universities and major research centers **Science and Application of Nanotubes** D. Tománek,R.J. Enbody,2005-12-17 This series of books which is published at the rate of about one per year addresses fundamental problems in materials science The contents cover a broad range of topics from small clusters of atoms to engineering materials and involve chemistry physics materials science and engineering with length scales ranging from nanostroms up to millimeters The emphasis is on basic science rather than on applications Each book focuses on a single area of current interest and brings together leading experts to give an up to date discussion of their work and the work of others Each article contains enough references that the interested reader can access the relevant literature Thanks are given to the Center for Fundamental Materials Research at Michigan State University for supporting this series M F Thorpe Series Editor E mail thorpe pa msu edu East Lansing Michigan V PREFACE It is hard to believe that not quite ten years ago namely in 1991 nanotubes of carbon were discovered by Sumio Iijima in deposits on the electrodes of the same carbon arc apparatus that was used to produce fullerenes such as the buckyball Nanotubes of carbon or other materials consisting of hollow cylinders that are only a few nanometers in diameter yet up to millimeters long are amazing structures that self assemble under extreme conditions Their quasi one dimensional character and virtual absence of atomic defects give rise to a plethora of unusual phenomena

Environmental Scanning Electron Microscopy Study of the Interaction of Carbon Nanotubes with Fluids Mari'a Pi'a Rossi,2006 *Nanotubes and Nanowires* C N Ram Rao,A Govindaraj,2015-10-09 Research and literature on nanomaterials has exploded in volume in recent years Nanotubes both of carbon and inorganic materials can be made in a variety of ways and they demonstrate a wide range of interesting properties Many of these properties such as high mechanical strength and interesting electronic properties relate directly to potential applications Nanowires have been made from a vast array of inorganic materials and provide great scope for further research into their properties and possible applications This book provides a comprehensive and up to date survey of the research areas of carbon nanotubes inorganic nanotubes and nanowires including synthesis characterisation properties applications Nanotubes and Nanowires includes an extensive list

of references and is ideal both for graduates needing an introduction to the field of nanomaterials as well as for professionals and researchers in academia and industry

Aligned Carbon Nanotubes Zhifeng Ren, Yucheng Lan, Yang Wang, 2012-09-05 This book gives a survey of the physics and fabrication of carbon nanotubes and their applications in optics electronics chemistry and biotechnology It focuses on the structural characterization of various carbon nanotubes fabrication of vertically or parallel aligned carbon nanotubes on substrates or in composites physical properties for their alignment and applications of aligned carbon nanotubes in field emission optical antennas light transmission solar cells chemical devices bio devices and many others Major fabrication methods are illustrated in detail particularly the most widely used PECVD growth technique on which various device integration schemes are based followed by applications such as electrical interconnects nanodiodes optical antennas and nanocoax solar cells whereas current limitations and challenges are also be discussed to lay the foundation for future developments

Carbon Nanotube and Related Field Emitters Yahachi Saito, 2010-10-01 Carbon nanotubes CNTs have novel properties that make them potentially useful in many applications in nanotechnology electronics optics and other fields of materials science These characteristics include extraordinary strength unique electrical properties and the fact that they are efficient heat conductors Field emission is the emission of electrons from the surface of a condensed phase into another phase due to the presence of high electric fields CNT field emitters are expected to make a breakthrough in the development of field emission display technology and enable miniature X ray sources that will find a wide variety of applications in electronic devices industry and medical and security examinations This first monograph on the topic covers all aspects in a concise yet comprehensive manner from the fundamentals to applications Divided into four sections the first part discusses the preparation and characterization of carbon nanotubes while part two is devoted to the field emission properties of carbon nanotubes including the electron emission mechanism characteristics of CNT electron sources and dynamic behavior of CNTs during operation Part three highlights field emission from other nanomaterials such as carbon nanowalls diamond and silicon and zinc oxide nanowires before concluding with frontier R D applications of CNT emitters from vacuum electronic devices such as field emission displays to electron sources in electron microscopes X ray sources and microwave amplifiers Edited by a pioneer in the field each chapter is written by recognized experts in the respective fields

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