

1. Record Nr.	UNINA9910139569903321
Titolo	Carbon meta-nanotubes [[electronic resource]] : synthesis, properties and applications // [edited by] Marc Monthioux
Pubbl/distr/stampa	Hoboken, N.J., : John Wiley & Sons, 2012
ISBN	1-119-96094-0 1-283-31618-8 9786613316189 1-119-95474-6 1-119-95473-8
Edizione	[2nd ed.]
Descrizione fisica	1 online resource (462 p.)
Classificazione	TEC021000
Altri autori (Persone)	MonthiouxMarc
Disciplina	620.1/17
Soggetti	Nanostructured materials Nanotubes Organic compounds - Synthesis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Carbon Meta-Nanotubes: Synthesis, Properties and Applications; Contents; List of Contributors; Foreword; List of Abbreviations; Acknowledgements; Introduction to the Meta-Nanotube Book; 1 Time for a Third-Generation of Carbon Nanotubes; 2 Introducing Meta-Nanotubes; 2.1 Doped Nanotubes (X:CNTs); 2.2 Functionalized Nanotubes (X-CNTs); 2.3 Decorated (Coated) Nanotubes (X/CNTs); 2.4 Filled Nanotubes (X@CNTs); 2.5 Heterogeneous Nanotubes (X*CNTs); 3 Introducing the Meta-Nanotube Book; References; 1 Introduction to Carbon Nanotubes; 1.1 Introduction 1.2 One Word about Synthesizing Carbon Nanotubes 1.3 SWCNTs: The Perfect Structure; 1.4 MWCNTs: The Amazing (Nano)Textural Variety; 1.5 Electronic Structure; 1.6 Some Properties of Carbon Nanotubes; 1.7 Conclusion; References; 2 Doped Carbon Nanotubes: (X:CNTs); 2.1 Introduction; 2.1.1 Scope of this Chapter; 2.1.2 A Few Definitions; 2.1.3 Doped/Intercalated Carbon Allotropes - a Brief History; 2.1.4 What Happens upon Doping SWCNTs?; 2.2 n-Doping of Nanotubes; 2.2.1 Synthetic Routes for Preparing Doped SWCNTs; 2.2.2 Crystalline

Structure and Chemical Composition of n-Doped Nanotubes
2.2.3 Modification of the Electronic Structure of SWCNTs upon Doping
2.4 Electrical Transport in Doped SWCNTs; 2.2.5 Spectroscopic Evidence for n-Doping; 2.2.6 Solutions of Reduced Nanotubes; 2.3 p-Doping of Carbon Nanotubes; 2.3.1 p-Doping of SWCNTs with Halogens; 2.3.2 p-Doping with Acceptor Molecules; 2.3.3 p-Doping of SWCNTs with FeCl₃; 2.3.4 p-Doping of SWCNTs with SOCl₂; 2.3.5 p-Doping of SWCNTs with Acids; 2.3.6 p-Doping of SWCNTs with Superacids; 2.3.7 p-Doping with other Oxidizing Agents; 2.3.8 Diameter Selective Doping; 2.4 Practical Applications of Doped Nanotubes
2.5 Conclusions, Perspectives
References; 3 Functionalized Carbon Nanotubes: (X-CNTs); 3.1 Introduction; 3.2 Functionalization Routes; 3.2.1 Noncovalent Sidewall Functionalization of SWCNTs; 3.2.2 Covalent Functionalization of SWCNTs; 3.3 Properties and Applications; 3.3.1 Electron Transfer Properties and Photovoltaic Applications; 3.3.2 Chemical Sensors (FET-Based); 3.3.3 Opto-Electronic Devices (FET-Based); 3.3.4 Biosensors; 3.4 Conclusion; References; 4 Decorated (Coated) Carbon Nanotubes: (X/CNTs); 4.1 Introduction; 4.2 Metal-Nanotube Interactions - Theoretical Aspects
4.2.1 Curvature-Induced Effects
4.2.2 Effect of Defects and Vacancies on the Metal-Graphite Interactions; 4.3 Carbon Nanotube Surface Activation; 4.4 Methods for Carbon Nanotube Coating; 4.4.1 Deposition from Solution; 4.4.2 Self-Assembly Methods; 4.4.3 Electro- and Electrophoretic Deposition; 4.4.4 Deposition from Gas Phase; 4.4.5 Nanoparticles Decorating Inner Surfaces of Carbon Nanotubes; 4.5 Characterization of Decorated Nanotubes; 4.5.1 Electron Microscopy and X-ray Diffraction; 4.5.2 Spectroscopic Methods; 4.5.3 Porosity and Surface Area; 4.6 Applications of Decorated Nanotubes
4.6.1 Sensors

Sommario/riassunto

"The book will present different chapters corresponding to each of the meta-nanotube categories. There will be an introductory chapter that will provide the basics of what is needed to be known about pristine nanotubes to understand what is in the subsequent chapters. Each of the chapters that follow the introductory chapter will cover aspects from synthesis to applications, characterization, behavior, properties, and mechanisms. These chapters will focus on heterogeneous nanotubes, doped nanotubes, functionalized nanotubes, coated nanotubes and hybrid nanotubes, respectively, and will be followed by a final concluding chapter"--

2. Record Nr.	UNINA9910163887203321
Autore	Alexander Devin
Titolo	The Biggest loser flavors of the world cookbook : take your taste buds on a global tour with more than 75 easy, healthy recipes for your favorite ethnic dishes // Chef Devin Alexander with Melissa Roberson
Pubbl/distr/stampa	New York, New York : , : Rodale, , 2011 ©2011
ISBN	1-60961-149-7
Descrizione fisica	1 online resource (218 pages) : color illustrations, photographs
Disciplina	641.59
Soggetti	International cooking Reducing diets
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	The chef, from the chef -- Creating new traditions -- ... -- Italian reinvented -- Asian and southeast asian flavors -- Mexican makeovers -- Regional American classics -- Mediterranean flavor -- A European tour -- International desserts -- Essentials.