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 Nanotubes1.3 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 Doping2.
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, PerspectivesReferences; 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 Effects4.2.2 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. UNINA9910798094103321

Autore	Strath Bo <1943->
Titolo	Europe's utopias of peace : 1815, 1919, 1951 / / Bo Strath
Pubbl/distr/stampa	London : , : Bloomsbury Academic, an imprint of Bloomsbury Publishing Plc, , 2016
ISBN	1-4742-3776-2 1-4742-3775-4
Descrizione fisica	1 online resource (553 p.)
Collana	Europe's legacy in the modern world
Disciplina	940.2/8
Soggetti	Democracy - Europe - History Nationalism - Europe - History Peace - Political aspects - Europe - History Social movements - Europe - History Utopias - Europe - History - 19th century Utopias - Europe - History - 20th century Europe Commerce History Europe History, Military Europe Politics and government 19th century Europe Politics and government 20th century
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	Introduction: Utopia, history and teleology : the bicentenary European search for a political economy for welfare and warfare, and struggle with nationalism and democracy -- The Vienna peace utopia of 1815 and the world of trade -- Welfare : the dissolution of the Vienna peace utopia from within -- Warfare : the dissolution of the Vienna peace utopia from without -- Versailles : the utopia of peace through democracy -- The Great Depression and the collapse of the world order -- After World War II : from the utopia of peace for the Cold War to the Euro-crisis and the search for a new narrative -- Epilogue: The bicentenary European struggle with nationalism and democracy, and search for a global political economy.
Sommario/riassunto	Europe's Utopias of Peace explores attempts to create a lasting

European peace in the aftermath of the Napoleonic wars and the two world wars. The book charts the 250 year cycle of violent European conflicts followed by new utopian formulations for peace. The utopian illusion was that future was predictable and rules could prescribe behaviour in conflicts to come. Bo Strath examines the reiterative bicentenary cycle since 1815, where each new postwar period built on a design for a project for European unification. He sets out the key historical events and the continuous struggle with nationalism, linking them to legal, political and economic thought. Biographical sketches of the most prominent thinkers and actors provide the human element to this narrative. Europe's Utopias of Peace presents a new perspective on the ideological, legal, economic and intellectual conditions that shaped Europe since the 19th century and presents this in a global context. It challenges the conventional narrative on Europe's past as a progressive enlightenment heritage, highlighting the ambiguities of the legacies that pervade the institutional structures of contemporary Europe. Its long-term historical perspective will be invaluable for students of contemporary Europe or modern European history