

1. Record Nr.	UNINA9910781495403321
Titolo	The chemistry of nanostructured materials . Volume II [[electronic resource] /] / editor, Peidong Yang
Pubbl/distr/stampa	Singapore ; ; Hackensack, N.J., : World Scientific Pub. Co., 2011
ISBN	1-283-14843-9 9786613148438 981-4313-07-6
Descrizione fisica	1 online resource (338 p.)
Collana	Chemistry of nanostructured materials ; ; v. 2
Altri autori (Persone)	YangPeidong
Disciplina	620/.5
Soggetti	Nanostructured materials
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.
Nota di contenuto	PREFACE; CONTENTS; CHAPTER 1 MAGNETICALLY TUNABLE COLLOIDAL PHOTONIC CRYSTALS; CHAPTER 2 METAL-ORGANIC FRAMEWORKS; CHAPTER 3 STRUCTURAL DNA NANOTECHNOLOGY: INFORMATION GUIDED SELF-ASSEMBLY; CHAPTER 4 NANOSTRUCTURED ELECTRODE MATERIALS FOR LITHIUM BATTERIES; CHAPTER 5 NANOCRYSTALLINE OXIDE SEMICONDUCTORS FOR DYE-SENSITIZED SOLAR CELLS; CHAPTER 6 ONE-DIMENSIONAL NANOSTRUCTURED ELECTRODES FOR HIGH CAPACITY LITHIUM-ION BATTERY ELECTRODES; CHAPTER 7 CHEMISTRY OF VERTICALLY-ALIGNED CARBON NANOTUBES; CHAPTER 8 NANOSTRUCTURED PHOTOELECTRODES FOR SOLAR POWERED APPLICATIONS CHAPTER 9 SYNTHETIC CHEMISTRY OF TITANIUM DIOXIDE
Sommario/riassunto	This book is a sequel to the first volume of ""The Chemistry of Nanostructured Materials"". It covers the most exciting developments in the nanostructured materials field for the past five to ten years, with a particular focus on their applications in energy conversion and energy storage. Prominent authors of recognized authority in the field contribute their expertise in the review chapters