1. Record Nr. UNINA9910782886103321

Autore	Wan Meixiang <1940->
Titolo	Conducting polymers with micro or nanometer structure [[electronic resource] /] / Meixiang Wan
Pubbl/distr/stampa	Beijing, : Tsinghua University Press Berlin, : Springer, c2008
ISBN	9786612048159 1-282-04815-5 3-540-69323-8
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (306 p.)
Classificazione	540 UV 9560
Disciplina	547.70457 620.19204297
Soggetti	Conducting polymers Polymers - Structure
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	of Conducting Polymers -- Polyaniline as A Promising Conducting Polymer -- Physical Properties and Associated Applications of Conducting Polymers -- Conducting Polymer Nanostructures -- Template-Free Method to Conducting Polymer Micro/Nanostructures.
Sommario/riassunto	Conducting Polymers with Micro or Nanometer Structure describes a topic discovered by three winners of the Nobel Prize in Chemistry in 2000: Alan J. Heeger, University of California at Santa Barbara, Alan G. MacDiarmid at the University of Pennsylvania, and Hideki Shirakawa at the University of Tsukuba. Since then, the unique properties of conducting polymers have led to promising applications in functional materials and technologies. The book first briefly summarizes the main concepts of conducting polymers before introducing micro/nanostructured conducting polymers dealing with their synthesis, structural characterizations, formation mechanisms, physical and chemical properties, and potential applications in nanomaterials and nanotechnology. The book is intended for researchers in the related fields of chemistry, physics, materials, nanomaterials and

nanodevices. Meixiang Wan is a professor at the Institute of Chemistry, Chinese Academy of Sciences, Beijing.