

1. Record Nr.	UNINA9910146055103321
Titolo	Metal-polymer nanocomposites [[electronic resource] /] / edited by Luigi Nicolais, Gianfranco Carotenuto
Pubbl/distr/stampa	Hoboken, N.J., : Wiley-Interscience, c2005
ISBN	1-280-26540-X 9786610265404 0-470-24535-2 0-471-69542-4 0-471-69543-2
Edizione	[1st ed.]
Descrizione fisica	1 online resource (320 p.)
Altri autori (Persone)	NicolaisLuigi CarotenutoGianfranco
Disciplina	620.1/6
Soggetti	Nanostructured materials Metallic composites Polymeric composites
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	METAL-POLYMER NANOCOMPOSITES; CONTENTS; Preface; Contributors; 1 PHYSICAL AND CHEMICAL PROPERTIES OF NANO-SIZED METAL PARTICLES; 2 METAL-CONTAINING POLYMERS: CRYOCHEMICAL SYNTHESIS, STRUCTURE, AND PHYSICOCHEMICAL PROPERTIES; 3 CONTROLLED PYROLYSIS OF METAL-CONTAINING PRECURSORS AS A WAY FOR SYNTHESIS OF METALLOPOLYMER NANOCOMPOSITES; 4 NANOSTRUCTURED POLYMERIC NANOREACTORS FOR METAL NANOPARTICLE FORMATION; 5 METAL-POLYMER NANOCOMPOSITE SYNTHESIS: NOVEL EX SITU AND IN SITU APPROACHES; 6 PLAMON ABSORPTION OF EMBEDDED NANOPARTICLES 7 MAGNETOOPTICS OF GRANULAR MATERIALS AND NEW OPTICAL METHODS OF MAGNETIC NANOPARTICLES AND NANOSTRUCTURES IMAGING8 OPTICAL EXTINCTION OF METAL NANOPARTICLES SYNTHESIZED IN POLYMER BY ION IMPLANTATION; 9 OPTICALLY ANISOTROPIC METAL-POLYMER NANOCOMPOSITES; Index
Sommario/riassunto	A unique guide to an essential area of nanoscience Interest in nano-

sized metals has increased greatly due to their special characteristics and suitability for a number of advanced applications. As technology becomes more refined-including the ability to effectively manipulate and stabilize metals at the nanoscale-these materials present ever-more workable solutions to a growing range of problems. Metal-Polymer Nanocomposites provides the first guide solely devoted to the unique properties and applications of this essential area of nanoscience. It offers a truly multidisciplinary
