

1. Record Nr.	UNINA9910462784203321
Titolo	Functional nanocomposite materials : special topic volume with invited peer reviewed papers only // edited by Shuhui Yu, Rong Sun and Ruxu Du
Pubbl/distr/stampa	Durnten-Zurich, Switzerland : , : TTP, , [2012] ©2012
ISBN	3-03813-841-X
Descrizione fisica	1 online resource (99 p.)
Collana	Materials science forum, , 0255-5476 ; ; volume 722
Altri autori (Persone)	YuShuhui SunRong DuRuxu
Disciplina	620.118
Soggetti	Nanocomposites (Materials) Electronic books.
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 indexes.
Nota di contenuto	Functional Nanocomposite Materials; Editorial; Table of Contents; Structure and Electrochemical Performance of Modified LiMn <sub>2</sub> O <sub>4</sub> by S-Co Codoping and Nano SiO <sub>2</sub> Surface Coating; LiFePO <sub>4</sub> /Porous Carbon Nanocomposite Cathode Material for Lithium Ion Batteries; Effect of Nanocomposite Additives on Corrosion Inhibition of Zn Anode in Neutral Solution; Ordered Macroporous Carbon/Polyaniline Nanocomposites as Electrode Materials for Supercapacitors; Microstructure and Properties of Ferrite/Organic Nanocomposite Prepared with Microemulsion Method Effects of Zinc Content on the Magnetic Properties of Ni-Zn Ferrite/Epoxy Composites The Electromagnetic Properties of Different Urchinlike Ni Nanostructures; Effects of Ambient Pressure on the Structural and Magnetic Properties of Bismuth Ferrite Nanoparticles Prepared by Pulsed Laser Deposition (PLD); Impedance Analysis on the Percolation Mechanism of the Nickel/Calcium Copper Titanate/Polyvinylidene Fluoride Composite; One-Pot Synthesis of Composite Nano-Capsules with Paraffin as Core and PMMA-SiO <sub>2</sub> as Shell by Interfacial Hydrolysis and Polymerization

Carbon Nanotube/Polymer Nanocomposites: Improved or Reduced Thermal Stabilities? Luminous Chitosan-Dye Nanocomposite Particles with Enhanced Lifetime and Stability; Keywords Index; Authors Index

Sommario/riassunto

In recent years, research and development has advanced greatly. Materials made using nanoscale components add new functional and structural properties: yielding nanocomposites and opening up many applications. Such nanocomposites are of great importance for a multitude of industrial uses and attract much research interest. This special issue on Functional Nanocomposite Materials is a collection of twelve papers whose contributors are at the Chinese University of Hong Kong, the Hong Kong University of Science and Technology, Tsinghua University, the University of Science and Technology of Beiji