

1. Record Nr.	UNINA9911019412703321
Titolo	Nanomaterials chemistry : recent developments and new directions // edited by C.N.R. Rao, A. Muller and A. K. Cheetham
Pubbl/distr/stampa	Weinheim, : Wiley-VCH [Chichester, : John Wiley, distributor], c2007
ISBN	9786611087982 9781281087980 128108798X 9783527611379 3527611371 9783527611362 3527611363
Descrizione fisica	1 online resource (423 p.)
Altri autori (Persone)	CheethamA. K MullerAchim <1938-> RaoC. N. R <1934-> (Chintamani Nagesa Ramachandra)
Disciplina	620.5
Soggetti	Nanochemistry Nanostructured materials Nanostructures
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	Nanomaterials Chemistry; Contents; Preface; List of Contributors; 1 Recent Developments in the Synthesis, Properties and Assemblies of Nanocrystals; 1.1 Introduction; 1.2 Spherical Nanocrystals; 1.2.1 Semiconductor Nanocrystals; 1.2.2 Metal Nanocrystals; 1.2.3 Nanocrystals of Metal Oxides; 1.3 Nanocrystals of Different Shapes; 1.3.1 Anisotropic Growth of Semiconductor and Oxide Nanocrystals; 1.3.2 Anisotropic Growth of Metal Nanocrystals; 1.4 Selective Growth on Nanocrystals; 1.5 Properties of Nanocrystals; 1.5.1 Electronic and Optical Properties; 1.5.2 Magnetic Properties 1.6 Ordered Assemblies of Nanocrystals 1.6.1 One- and Low-dimensional Arrangements; 1.6.2 Two-dimensional Arrays; 1.6.3

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## Sommario/riassunto

With this handbook, the distinguished team of editors has combined the expertise of leading nanomaterials scientists to provide the latest overview of this field. They cover the whole spectrum of nanomaterials, ranging from theory, synthesis, properties, characterization to application, including such new developments as quantum dots, nanoparticles, nanoporous materials, nanowires, nanotubes, and nanostructured polymers. The result is recommended reading for everybody working in nanoscience: Newcomers to the field can acquaint themselves with this exciting subject, while specialists will f

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