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Nota di contenuto	Synthesis, Characterization and Properties of Nanostructures; Preface; Table of Contents; CHAPTER I: Computational Nanomaterials; Size Dependent Interface Energy of Nanomaterials; Quantum Transport in Bridge Systems; Persistent Current in Metallic Rings and Cylinders; CHAPTER II: Experimental Nanomaterials; Microscopic Analysis of Track Etched Polymeric Membranes; Inorganic Phosphor Materials for Solid State White Light Generation; Dielectric and Conductivity Studies of Sr [(Mg _{0.32} Co _{0.02}) Nb _{0.66}]O ₃ Thin Film ; The Preparation and Optical Property of ZnO Thin-Film by Electrospray Monodispersed Magnetic Fluids: Synthesis and CharacterizationAn Electronic Structure Study of Mn Doped ZnO Diluted Magnetic Semiconductor Using X-Ray Absorption and Photoemission Techniques; Synthesis and Characterization of Magnetoelectric Nanocomposites; Keywords Index; Authors Index
Sommario/riassunto	Reducing the dimensions of contiguous matter, down to the nanometer scale, confines the electronic and vibrational wavefunctions and results in unique properties which open up a wide vista of potential applications in optics, mechanics, electrical engineering, magnetic devices, catalysis and biomedicine. Nanostructures, characterized by having at least one dimension in the nanometer range, are considered

to be a bridge between single molecules and their bulk counterparts.
The challenge for nanotechnology is to achieve perfect control of the
nanoscale-related properties; which obviously require
