

1. Record Nr.	UNICAMPANIAVAN00297626
Autore	Engelbrecht, Juri
Titolo	Nonlinear Wave Dynamics : Complexity and Simplicity / by Jüri Engelbrecht
Pubbl/distr/stampa	Dordrecht, : Springer, : Kluwer, 1997
Descrizione fisica	xiv, 183 p. ; 24 cm
Soggetti	74J10 - Bulk waves in solid mechanics [MSC 2020] 76-XX - Fluid mechanics [MSC 2020] 76B25 - Solitary waves for incompressible inviscid fluids [MSC 2020]
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910298620703321
Titolo	Nanoparticles' Promises and Risks : Characterization, Manipulation, and Potential Hazards to Humanity and the Environment // edited by Mihai Lungu, Adrian Neculae, Madalin Bunoiu, Claudiu Biris
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-11728-9
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (359 p.)
Disciplina	620.11 620.5 620115 628 660.6
Soggetti	Nanotechnology Nanoscience Nanostructures Environmental engineering Biotechnology Nanoscale Science and Technology Environmental Engineering/Biotechnology

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	<p>Nanoparticles. Definition, Classification, General Physical Properties -- Natural Sources of Nanoparticles -- Anthropogenic Sources of Nanoparticles -- Mechanisms of Nanoparticle Formation and Reformation in the Atmosphere -- Nanopathology: the nano-bio-interaction of nanoparticles inside the human body -- Nanotoxicity: must consider aspect of nanoparticle development -- Pros and cons on magnetic nanoparticles use in medicine and biotechnologies applications -- Nanofluidics-based mass spectrometry. Applications for biomarker discovery in lysosomal storage diseases -- Multidynamic Liposomal Nanomedicine: Technology, Biology, Applications, and Disease Targeting -- Identifications of nanoparticles in organic matrices -- Gold Nanoparticle in Biosensing Analyses -- Electron Magnetic Resonance technique and nanoparticle characterization -- Nanoparticles Characterization using Nanoparticle Tracking Analysis -- Dielectrophoresis Used for Nanoparticle Manipulation in Microfluidic Devices -- Multi-dimensional electrophoresis: The march in pharma applications -- Tailored Bio-Polysaccharide Nonomicelles for Targeted Drug Delivery.</p>
Sommario/riassunto	<p>The focus of this interdisciplinary volume is on four areas of nanoparticle research: characterization, manipulation, and potential effects on humanity and the environment. The book includes a comprehensive collection of data on industrial nanoparticle creation and the characterization of the nanoscale products of these processes. The authors describe the effects of these nanoscale structures on human health and discuss prospective implementations for detection and characterization of nanoparticles in the environment. They recommend, utilizing the most up-to-date understanding of nanotechnology, methods for limiting the negative effects of these products on the environment and human health through manipulation, sorting, and filtration.</p>