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Titolo	Nanopharmaceuticals: Principles and Applications Vol. 2 / / edited by Vinod Kumar Yata, Shivendu Ranjan, Nandita Dasgupta, Eric Lichtfouse
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Descrizione fisica	1 online resource (XVI, 366 p. 117 illus., 74 illus. in color.)
Collana	Environmental Chemistry for a Sustainable World, , 2213-7114 ; ; 47
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Soggetti	Agriculture Water pollution Air pollution Polymers Waste Water Technology / Water Pollution Control / Water Management / Aquatic Pollution Atmospheric Protection/Air Quality Control/Air Pollution Polymer Sciences
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Chapter 1 Environmental and Toxicological Implications of Nanopharmaceuticals – An Overview -- Chapter 2 Herbal Nanocarriers for Cancer Therapy -- Chapter 3 Nanopharmaceuticals: In Relevance to Drug Delivery and Targeting -- Chapter 4 Natural products and nanopharmaceuticals -- Chapter 5 Vesicular nanocarriers: A potential platform for dermal and transdermal drug delivery -- Chapter 6 Nanotechnology in Delivery and Targeting of Phytochemicals -- Chapter 7 Nanopharmaceuticals: healthcare applications and safety evaluations -- Chapter 8 Potential ecotoxicological risk of nanopharmaceuticals in the aquatic environment -- Chapter 9 Recent advances on nanostructured materials for drug delivery and release.
Sommario/riassunto	This book presents the comprehensive description of basic principles, methodologies, similarities and differences of nano-liposomes and -phytosomes. It focuses on the implications of these nano carriers in drug delivery and also includes detailed classification of nanoinonized

drug particles, polymeric nanoparticles and hydrophobic nanoparticles. This book concludes with the biological, technical and study-design challenges of Nanopharmaceuticals and presents critical viewpoints of smart DNA nanostructures. The risk factors and regulatory concerns have also been kept in focus and the book includes the toxicity and application of different types of ionic liquids for humans and environment. It also critically describes characteristics, applications and regulatory gaps of nanoparticle-ionic liquid combined systems.