Record Nr. UNINA9910830149603321 **Titolo** Toxicology of nanoparticles and nanomaterials in human, terrestrial and aquatic systems / / edited by Marc A. Williams Pubbl/distr/stampa Hoboken, New Jersey;; Chichester, West Sussex, England:,: Wiley,, [2022] ©2022 **ISBN** 9781119316329 9781119316374 9781119316350 1-119-31635-9 1-119-31632-4 Descrizione fisica 1 online resource (xxiv, 466 pages): illustrations (chiefly color) Disciplina 615.1901 Soggetti Nanoparticles - Toxicology Nanoparticles - Health aspects Nanoparticles - Environmental aspects Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references and index. Nota di bibliografia Nota di contenuto An introduction to ultrafine and nanoparticles and their environmental effects / Marc A. Williams -- Ecosafety of nanomaterials in the aquatic environment / Maria J. Bebianno, Thiago L. Rocha, Jose P. Pinheiro, Margarida Ribau Teixeira, Fernanda Cassio -- Changes in toxicant physicochemistry and bioavailability during sorption/desorption processes with TiO2 nanoparticles in the aqueous phase / Danae Patsiou, Martin R. S. McCoustra, Teresa F. Fernandes, and Theodore B. Henry -- Behavior, fate and toxicity of engineered nanoparticles in estuarine and coastal environments / Daniel M. Lyons and Petra Buric -- Interactive effects of nanomaterials with other contaminants on aquatic organisms: nTiO2 as a case study / Laura Canesi, Camilla Della Torre, Teresa Balbi, Ilaria Corsi -- Soil nano-ecotoxicology: what have

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Sommario/riassunto

"The focus of this book is on human health risk assessment in the context of nanoparticle exposures. The book is authored by a highly-qualified team of subject matter experts, guided by editors that each has at least 25 years or more of laboratory investigative experience and publication in the fields covered in this book. The book is split into four sections. The first section is an introduction which includes an overview of the field. The second section details Health Effects of Nano -- Evidence from Animal Models and In Vitro Systems. The third covers Health Effects of Nano -- Evidence from Human Exposures, Environmental Assessments, and Disasters. The book concludes with topics on Emerging Applications, Ecotoxicology of Nanotechnology, Risk Assessment, and Regulation".