

1. Record Nr.	UNINA9910155528603321
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Titolo	Rare earth elements in human and environmental health : at the crossroads between toxicity and safety // by Giovanni Pagano
Pubbl/distr/stampa	Singapore : , : Pan Stanford Publishing, an imprint of Pan Stanford, , 2016
ISBN	1-315-34106-9 1-315-36473-5 981-4745-01-4
Edizione	[First edition.]
Descrizione fisica	1 online resource (293 pages) : illustrations, tables
Disciplina	546.41
Soggetti	Rare earth metals Rare earth metals - Toxicology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each each chapters and index.
Nota di contenuto	chapter Introduction to Rare Earth Elements: Novel Health Hazards or Safe Technological Devices? -- chapter 1 Trends in Occupational Toxicology of Rare Earth Elements -- chapter 2 Rare Earth Elements, Oxidative Stress, and Disease -- chapter 3 Cerium Oxide Nanoparticles?Associated Oxidant and Antioxidant Effects and Mechanisms -- chapter 4 Rare Earth Elements and Plants -- chapter 5 Rare Earth Elements and Microorganisms -- chapter 6 Rare Earth Element Toxicity to Marine and Freshwater Algae -- chapter 7 Exposure to Rare Earth Elements in Animals: A Systematic Review of Biological Effects in Mammals, Fish, and Invertebrates -- chapter 8 Hazard Assessment and the Evaluation of Rare Earth Element Dose?Response Relationships -- chapter 9 Rare Earth Elements as Phosphate Binders: From Kidneys to Lakes -- chapter 10 Rare Earth Elements: Modulation of Calcium-Driven Processes in Epithelium and Stroma -- chapter 11 Rare Earth Elements Equilibria in Aqueous Media.
Sommario/riassunto	This book presents the multifaceted aspects of rare earth elements (REEs), focusing on both their potential benefits and adverse health effects. The adverse impacts of REEs on human and environmental health raise a growing concern not only in the scientific community but

also among a number of stakeholders, potentially including students, media workers, and decision makers. The recognized and potential benefits arising from REE-related technological applications may envisage their further advantages.
