

1. Record Nr.	UNINA9910466620303321
Titolo	Medical mineralogy and geochemistry / / editors, Nita Sahai, Martin A. A. Schoonen
Pubbl/distr/stampa	Chantilly, Virginia : , : Mineralogical Society of America, , [2006] ©2006
ISBN	1-5015-0942-X
Descrizione fisica	1 online resource (xi, 332 pages) : illustrations
Collana	Reviews in Mineralogy & Geochemistry ; ; 64
Disciplina	574.19214
Soggetti	Minerals in the body Minerals - Bioavailability Minerals - Toxicology Mineralogy Geochemistry Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"The review chapters in this volume were the basis for a two day short course ... held at the United States Geological Survey in Menlo Park, California, U.S.A. (December 9-10, 2006)"--P. [iii].
Nota di bibliografia	Includes bibliographical references.
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Induced Formation of Reactive Oxygen Species / Schoonen, Martin A. A. / Cohn, Corey A. / Roemer, Elizabeth / Lajfers, Richard / Simon, Sanford R. / O'Riordan, Thomas -- 8. Bone: Nature of the Calcium Phosphate Crystals and Cellular, Structural, and Physical Chemical Mechanisms in Their Formation / Glimcher, Melvin J. -- 9. Silicate Biomaterials for Orthopaedic and Dental Implants / Cerruti, Marta / Sahai, Nita -- 10. Living Cells in Oxide Glasses / Livage, Jacques / Coradin, Thibaud

Sommario/riassunto

Volume 64 of Reviews in Mineralogy and Geochemistry presents examples that include the effects of inhaled dust particles in the lung (Huang et al. 2006; Schoonen et al. 2006), biomineralization of bones and teeth (Glimcher et al. 2006), the formation of kidney-stones, the calcification of arteries, the speciation exposure pathways and pathological effects of heavy metal contaminants (Reeder et al. 2006; Plumlee et al. 2006), the transport and fate of prions and pathological viruses in the environment (Schramm et al. 2006), the possible environmental-genetic link in the occurrence of neurodegenerative diseases (Perl and Moalem 2006), the design of biocompatible, bioactive ceramics for use as orthopaedic and dental implants and related tissue engineering applications (Cerruti and Sahai 2006) and the use of oxide-encapsulated living cells for the development of biosensors (Livage and Coradin 2006).
