

1. Record Nr.	UNICAMPANIASUN0065385
Autore	Ferrari, Mario
Titolo	2: La difesa delle colture / Mario Ferrari, Elena Marcon, Andrea Menta
Pubbl/distr/stampa	Bologna : Edagricole, 2001
ISBN	978-88-206-4006-4
Descrizione fisica	XIII, 410 p. : ill. ; 26 cm.
Altri autori (Persone)	Marcon, Elena Menta, Andrea
Disciplina	577
Lingua di pubblicazione	Italiano
Formato	Materiale a stampa
Livello bibliografico	Monografia
2. Record Nr.	UNINA9910631100603321
Autore	Chen Jianhua
Titolo	Coordination Principle of Minerals Flotation / / by Jianhua Chen
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2022
ISBN	9789811927119 9789811927102
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (234 pages)
Collana	Earth and Environmental Science Series
Disciplina	622.752
Soggetti	Mineralogy Mining engineering Coordination compounds Mining and Exploration Coordination Chemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.

Nota di contenuto

An Introduction to Coordination Chemistry Theory -- Coordination Characteristics of Mineral Flotation Systems -- Spatial Geometry of Mineral Surface Coordination -- Coordination of Flotation Chemicals with Metal Ions on Mineral Surfaces -- Effect of CFSE on the Interaction of Reagents with Surface -- Orbital Interactions of Reagents Molecules with Mineral Surfaces.

Sommario/riassunto

The advent of flotation, with selective interaction of reagents with minerals at its core, has greatly advanced the development of modern mining. Ever since, there has been continuous researched into the mechanism of mineral-reagent interactions, in an effort to design and develop more effective reagents. A unique perspective from coordination is presented to illustrate the principles of reagent molecules interacting with metal ions on mineral surface. For the first time, the influence is unveiled of mineral crystal structures and surrounding atoms on metal ion properties and further on mineral-reagent interactions. The introduction of classical theories for modern chemistry, including orbital structure, electron spin and orbital symmetry matching, into flotation is realized. Researchers, engineers and graduate students among others in the field of mineral processing may gain new insight into flotation and the development of novel reagents.
