

1. Record Nr.	UNINA9910793290403321
Titolo	Sulfide mineralogy and geochemistry // editor, David J. Vaughan
Pubbl/distr/stampa	Chantilly, Virginia : , : The Mineralogical Society of America, , [2006] ©2006
ISBN	1-5015-0949-7
Descrizione fisica	1 online resource (xiii, 714 pages) : illustrations
Collana	Reviews in Mineralogy and Geochemistry ; ; Volume 61
Disciplina	549/.32
Soggetti	Sulfides Geochemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Published with Geochemical Society.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Frontmatter -- PREFACE -- TABLE OF CONTENTS -- 1. Sulfide Mineralogy and Geochemistry: Introduction and Overview / Vaughan, David J. -- 2. Crystal Structures of Sulfides and Other Chalcogenides / Makovicky, Emil -- 3. Electrical and Magnetic Properties of Sulfides / Pearce, Carolyn I. / Pattrick, Richard A.D. / Vaughan, David J. -- 4. Spectroscopic Studies of Sulfides / Wincott, Paul L. / Vaughan, David J. -- 5. Chemical Bonding in Sulfide Minerals / Vaughan, David J. / Rosso, Kevin M. -- 6. Thermochemistry of Sulfide Mineral Solutions / Sack, Richard O. / Ebel, Denton S. -- 7. Phase Equilibria at High Temperatures / Fleet, Michael E. -- 8. Metal Sulfide Complexes and Clusters / Rickard, David / Luther, George W. -- 9. Sulfide Mineral Surfaces / Rosso, Kevin M. / Vaughan, David J. -- 10. Reactivity of Sulfide Mineral Surfaces / Rosso, Kevin M. / Vaughan, David J. -- 11. Sulfide Mineral Precipitation from Hydrothermal Fluids / Reed, Mark H. / Palandri, James -- 12. Sulfur Isotope Geochemistry of Sulfide Minerals / Seal, Robert R. -- 13. Sulfides in Biosystems / Pósfai, Mihály / Dunin-Borkowski, Rafal E.
Sommario/riassunto	Volume 61 of Reviews in Mineralogy and Geochemistry presents an up-to-date review of sulfide mineralogy and geochemistry. The crystal structures, electrical and magnetic properties, spectroscopic studies, chemical bonding, thermochemistry, phase relations, solution chemistry, surface structure and chemistry, hydrothermal precipitation

processes, sulfur isotope geochemistry and geobiology of metal sulfides are reviewed. Where it is appropriate for comparison, there is brief discussion of the selenide or telluride analogs of the metal sulfides. When discussing crystal structures and structural relationships, the sulfosalt minerals as well as the sulfides are considered in some detail.
