



# Biohydrometallurgy

**Edgardo R. Donati, Wolfgang Sand**



## **Biohydrometallurgy:**

Biohydrometallurgy Giovanni Rossi, 1990      The ECPH Encyclopedia of Mining and Metallurgy Kuangdi Xu, 2024-07-06

This encyclopedia volume comprehensively reflects the basic knowledge and latest research results in the field of mining and metallurgy technology as well as the latest characteristics of the development in this field. In this reference book, the knowledge system, basic concepts, basic theories, as well as important figures, representative works, and institutions of these two engineering categories are well organized in encyclopedic entries. Among them, the content on mining engineering mainly includes mining and mineral processing theory, mining and mineral processing methods, as well as the safety and environmental knowledge involved in mining and mineral processing. In the metallurgical engineering field, it mainly covers metallurgy and metallurgy industry, ferrous metallurgy, non-ferrous metallurgy, powder metallurgy, plastic working of metal, coking, chemicals, refractories, energy for metallurgy, physical chemistry of metallurgical process, etc. This is the first volume of a series of encyclopedias co-published by Encyclopedia of China Publishing House (ECPH Beijing) and Springer Nature.

**Geobiotechnology I** Axel Schippers, Franz Glombitza, Wolfgang Sand, 2014-08-25. This book review series presents current trends in modern biotechnology. The aim is to cover all aspects of this interdisciplinary technology where knowledge, methods, and expertise are required from chemistry, biochemistry, microbiology, genetics, chemical engineering, and computer science. Volumes are organized topically and provide a comprehensive discussion of developments in the respective field over the past 3-5 years. The series also discusses new discoveries and applications. Special volumes are dedicated to selected topics which focus on new biotechnological products and new processes for their synthesis and purification. In general, special volumes are edited by well-known guest editors. The series editor and publisher will, however, always be pleased to receive suggestions and supplementary information. Manuscripts are accepted in English.

*Environmental Technologies to Treat Sulfur Pollution* Piet Lens, L. W. Hulshoff Pol, 2000-01-01. *Environmental Technologies to Treat Sulfur Pollution: Principles and Engineering* provides a definitive and detailed discussion of the state of the art environmental technologies to treat pollution by sulfurous compounds of wastewater, off-gases, solid waste, soils, and sediments. Special attention is given to novel bioremediation techniques that have been developed over the last 10 years. Information density is unique owing to the many figures and graphs, 150 tables, over 80 and over 1500 cited literature references. A detailed subject index helps the reader to find their way through the different technological applications, making it the perfect reference work for professionals and consultants dealing with sulfur-related environmental biotechnologies.

Contents: Part I: The sulfur cycle; Part II: Technologies to Desulfurise Resources; Part III: Treatment of Waters Polluted by Sulfurous Compounds; Part IV: Treatment of Gases Polluted by Sulfurous Compounds; Part V: Treatment of Soils and Sediments Polluted by Sulfurous Compounds; Part VI: Other Applications of Sulfur Cycle Bioconversions in Environmental Engineering; Part VII: Problems Related to Sulfur Cycle Bioconversions.

*Microbial Processing of Metal Sulfides* Edgardo R. Donati, Wolfgang Sand, 2007-05-11. The application of

microbiological methods to the extraction of metals from minerals is supported by several bioleaching and biooxidation processes operating in different sites over the world This book details the basic aspects of the process with special emphasis on recent contributions regarding the chemical and microbial aspects of the bioleaching process and the use of microorganisms in the treatment of complex ores and concentrates *Integration of Scientific and Industrial Knowledge on Biohydrometallurgy* Nicolas Guiliani, Cecilia Demergasso, Raquel Quatrini, Francisco Remonsellez, Carol Davis-Belmar, Gloria J. Levicán, Pilar Parada, Carlos Barahona, Rebekah Zale, 2013-10-07 Selected peer reviewed papers from the 20th International Biohydrometallurgy Symposium IBS2013 October 8 11 2013 Antofagasta Chile *Biotechnology for the Treatment of Hazardous Waste* Daphne L. Stoner, 1993-11-24 The development of biologically based processes for the treatment of hazardous inorganic and organic wastes is a multi disciplinary effort requiring the consideration of a number of biological chemical and physical parameters as well as the effective teaming of biologists chemists engineers and regulatory agencies This new text reference bridges the disciplines in a unique way allowing an exchange of fundamental information to take place The book begins with a description of the biological transformations of inorganic and organic compounds and a review of strategies that may be used for the treatment of hazardous wastes It continues with a discussion of the physiological and engineering factors that must be considered for successful process development and concludes with a discussion of the regulations that have influenced biological waste treatment and environmental remediation **New Horizons in Biotechnology** S. Roussos, C.R. Soccol, Ashok Pandey, C. Augur, 2013-06-29 The practice of biotechnology though different in style scale and substance in globalizing science for development involves all countries Investment in biotechnology in the industrialised the developing and the least developed countries is now amongst the widely accepted avenues being used for economic development The simple utilization of kefir technology the detoxification of injurious chemical pesticides e g parathion the genetic tailoring of new crops and the production of a first of a kind of biopharmaceuticals illustrate the global scope and content of biotechnology research endeavour and effort In the developing and least developed nations and in which the 9 most populous countries are encountered problems concerning management of the environment food security conservation of human health resources and capacity building are important factors that influence the path to sustainable development Long term use of biotechnology in the agricultural food energy and health sectors is expected to yield a windfall of economic environmental and social benefits Already the prototypes of new medicines and of prescription fruit vaccines are available Gene based agriculture and medicine is increasingly being adopted and accepted Emerging trends and practices are reflected in the designing of more efficient bioprocesses and in new research in enzyme and fermentation technology in the bioconversion of agro industrial residues into bio utility products in animal healthcare and in the bioremediation and medical biotechnologies Indeed with each new day new horizons in biotechnology beckon **Biohydrometallurgy of Chalcopyrite** Hongbo Zhao, Congren Yang, Xian Zhang, Yisheng Zhang, Guanzhou Qiu, 2021-07-29 Bioleaching of chalcopyrite

is always a challenge and research hotspot The low copper extraction and dissolution kinetics restricted the industrial application of chalcopyrite bioleaching To solve this problem the dissolution process and passivation mechanism of chalcopyrite in bioleaching should be first studied then the rate limiting steps should be analysed explicitly and finally the intensifying method can be put forward Many scholars have made efforts to investigate the dissolution mechanism of chalcopyrite in bioleaching However there is no congruence of opinion as yet Biohydrometallurgy of Chalcopyrite summarizes and discusses the reported research findings In addition this book publishes the related results found by the authors research Then the dissolution mechanism of chalcopyrite in bioleaching is interpreted Finally the process intensification techniques of chalcopyrite bioleaching are provided and discussed Hence this book provides useful reference and guidance in both laboratory research and industrial production Interprets the dissolution mechanism of chalcopyrite in bioleaching Provides feasible technologies for intensifying chalcopyrite bioleaching Overviews the current situations of chalcopyrite bioleaching Helps the readers to deeply understand the bioleaching mechanisms of chalcopyrite Provides topics for future research and potential industrial applications

*BIOTECHNOLOGY - Volume X* Horst W. Doelle, J. Stefan Rokem, Marin Berovic, 2009-11-16 This Encyclopedia of Biotechnology is a component of the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Biotechnology draws on the pure biological sciences genetics animal cell culture molecular biology microbiology biochemistry embryology cell biology and in many instances is also dependent on knowledge and methods from outside the sphere of biology chemical engineering bioprocess engineering information technology biorobotics This 15 volume set contains several chapters each of size 5000 30000 words with perspectives applications and extensive illustrations It carries state of the art knowledge in the field and is aimed by virtue of the several applications at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy Analysts Managers and Decision Makers and NGOs

Genetic Engineering and Biotechnology Monitor ,1992 *Biohydrometallurgy of Rare Earth Ores* Hongbo Zhao, Li Shen, Xiaoyu Meng, Guanzhou Qiu, 2026-05-01 Biohydrometallurgy of Rare Earth Ores offers an in depth exploration of innovative bioleaching techniques for the extraction of rare earth elements critical for various high tech applications The book begins with foundational concepts in bioleaching explaining how microorganisms and their metabolites can facilitate the extraction of REEs from ores It examines different biological approaches including the use of native and genetically improved microorganisms and highlights the role of coordination chemistry in enhancing leaching processes The text further discusses comparative analyses of chemical versus bioleaching methods emphasizing the advantages of biological techniques in terms of efficiency and environmental sustainability It details the recovery processes of REEs from bioleaching solutions exploring various methods such as inorganic and organic precipitation biosorption and the utilization of waste derived metabolites Additionally the book addresses the environmental impacts of bioleaching practices providing a holistic view of

the sustainability of these methods By integrating cutting edge research and practical applications this book serves as a valuable resource for researchers practitioners and industry professionals interested in the sustainable extraction of rare earth elements Ultimately it highlights the potential of biohydrometallurgy to contribute to the responsible management of natural resources and the advancement of green technologies

**Molecular Biology and Biotechnology of Extremophiles** R. A. Herbert, R. J. Sharp, 1992      **Dokumentation biologische Materialprüfung**, 1988

Biohydrometallurgy and the environment toward the mining of the 21st century, 1999      *22nd International*

*Biohydrometallurgy Symposium* Sabrina Hedrich, Kathrin Rübberdt, Franz Glombitza, Wolfgang Sand, Axel Schippers, Mario Vera Veliz, Sabine Willscher, 2017-01-09 The 22th International Biohydrometallurgy Symposium 24-27 September 2017 Freiberg Germany was the global forum for experts from academia and industry active in the fields of biomining bioleaching and bioremediation These technologies have a high potential to establish environmentally favourable processes for the recovery of primary and secondary precious and base metal resources as well as the remediation of exploited mining sites

Biohydrometallurgy Paul R. Norris, D. P. Kelly, 1988      *Biohydrometallurgy: From the Single Cell to the Environment* Axel Schippers, Wolfgang Sand, Franz Glombitza, Sabine Willscher, 2007-07-15 Selected peer reviewed papers from the 17th International Biohydrometallurgy Symposium IBS 2007 2-5 September 2007 DEHEMA Gesellschaft für Chemische Technik und Biotechnologie e V Frankfurt am Main Germany

*Sorption and Biosorption* Bohumil Volesky, 2003      Metal-microbe Interactions Robert K. Poole, Geoffrey M. Gadd, 1989 This new title provides information on the relationships of such biological materials as yeasts fungi and plasmids with metals they come in contact with Readers will find in depth discussions by noted experts in their respective fields on the toxicity of heavy metals accumulation and precipitation of sulphides and the reactions of bacterial cell walls to the presence of metal ions This volume is ideal for undergraduates and graduates as well as researchers unfamiliar with metal microbe interactions who are seeking a useful introduction to the field

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