

# Biohydrometallurgy

- **Biohydrometallurgy** is a method for obtaining metals from their ores by using microorganisms.
- **Interdisciplinary field** involving processes that -
  - make use of microbes (*-bio*)
  - mainly take place in aqueous environment (*-hydro*)
  - deal with metal production and treatment of metal containing materials and solutions (*-metallurgy*)
- **Bioleaching** is one of the application of **Biohydrometallurgy**.

# Biohydrometallurgy

**R. A. Herbert, R. J. Sharp**



## **Biohydrometallurgy:**

**Biohydrometallurgy 2009** Edgardo R. Donati, M. Viera, Eduardo L. Tavani, Maria Alejandra Giaveno, Teresa L. Lavalley, Patricia A. Chiacchiarini, 2009-05-19 a meeting point between Microbial Ecology Metal Recovery Processes and Environmental Remediation Selected peer reviewed papers from the 18th IBS IBS 2009 13 17 September 2009 Bariloche Argentina 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 DECHEMA Gesellschaft f r Chemische Technik und Biotechnologie e V Frankfurt am Main Germany *Biohydrometallurgy* Joseph Salley, Ronald Glen Lang McCready, Paul L. Wichlacz, 1989 Biohydrometallurgy Giovanni Rossi, 1990 *Biohydrometallurgy: Bioleaching, microbiology, and molecular biology* V. S. T. Ciminelli, Oswaldo Garcia, Mônica C. Teixeira, Regina Pinto Carvalho, Patrícia F. Pimentel, 2001 Presenting the highlights of an international forum for scientific and engineering experts and students addressing the progress and applications of Biohydrometallurgy as it enters the new millennium *Biohydrometallurgy: Biosorption and bioremediation* V. S. T. Ciminelli, 2001 **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 **Biohydrometallurgy** Paul R. Norris, D. P. Kelly, 1988 **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

**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

**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

*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

*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

Biohydrometallurgical Recycling of Metals from Industrial Wastes Hong Hocheng, Mital Chakankar, Umesh Jadhav, Swati Gurme, 2025-03-13 Although many available metal recycling methods are simple and fast they are also expensive and cause environmental pollution Biohydrometallurgical processing of metals offers an alternative to overcome these issues as the use of biological means not only helps to conserve dwindling ore resources but also fulfills the unambiguous need to extract metals in nonpolluting low energy and low cost way This book covers biohydrometallurgy and its application in the recovery of metals from secondary sources like wastes Fully updated for a new edition it provides readers with a comprehensive overview of different wastes for metal recovery and biological treatment methods that are both environmentally friendly and economically viable Offers a detailed explanation about generation of different metals containing industrial waste Explains traditional and new biological methods of recycling Reflects research advances across different industrial waste sources including electric vehicle batteries and LCDs from computers and other devices Focuses on each waste type and explores in detail the biohydrometallurgical recovery of metals from that waste Discusses fundamental microbial studies in bioleaching and updates about the use of emerging technologies and integrated techniques with different methods in combination for metal recovery Features a new chapter on techniques for metal extraction from bioleachate This book serves as an essential resource for researchers and professional engineers working in chemical and environmental engineering and biotechnology

**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

**Molecular Biology and  
Biotechnology of Extremophiles** R. A. Herbert, R. J. Sharp, 1992  
**Genetic Engineering and Biotechnology Monitor**  
**Biohydrometallurgical Technologies** A. E. Torma, 1993  
**Dokumentation biologische Materialprüfung**  
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