Microbial Processing Of Metal Sulfides

Preface- Section I Fundamentals, microorganisms and mechanisms - Microorganisms involved in bioleaching and nucleic acid-based molecular methods for their identification and quantification - Axel Schippers - Mechanisms and biochemical fundamentals of bacterial metal sulfide oxidation- Thore Rodwerder and Wolfgang Sand - Electrochemical techniques used to study bacterial-metal sulfides interactions- Denise Bevilaqua, Heloisa A. Acciari, Assis V. Benedetti and Oswaldo Garcia Jr- Electrochemical mechanism of leaching. Influence of the presence of catalytic ions and bacteria - Antonio Ballester, Mara Luisa Blzquez, Felisa Gonzlez and Jess A. Muoz- Recovery of zinc, nickel, cobalt and other metals by bioleaching- Marisa R. Viera, Cristina M. Pogliani and Edgardo R. Donati- Bioleaching of metals in neutral and slightly alkaline environment - Aleksandra Sklodowska and Renata Matlakowska - Section II Bioreactors and Bioheaps- Bioleaching of sulfide minerals in continuous stirred tanks - Dominique Henri Roger Morin - Bioreactor design fundamentals and their application to gold mining- Fernando Acevedo and Juan Carlos Gentina- Air-lift reactors: characterization and applications in biohydrometallurgy Alejandra Giaveno, Laura Lavalle, Patricia Chiacchiarini and Edgardo R. Donati- Principles, mechanisms and dynamics of chalcocite heap bioleaching - Jochen Petersen and David G. Dixon - Section III Genetics and Molecular Biology - The use of bioinformatics and genome biology to advance our understanding of bioleaching microorganisms - Raquel Quatrini, Jorge Valdes, Eugenia Jedlicki and David S. Holmes- Proteomics and metaproteomics applied to biomining microorganisms - Carlos A. Jerez - Cell-cell communication in bacteria: A promising new approach to improve bioleaching efficiency? - Susana Valenzuela, Alvaro Banderas, Carlos A. Jerez and Nicols Guiliani - Section IV - Other Applications - Bioflotation and bioflocculation of relevance to minerals Bioprocessing - K. Hanumantha Rao and S. Subramanian- Desulphurization of gaseous emissions containing hydrogen sulfide - Jose Manuel Gmez and Domingo Cantero - Index EAN/ISBN : 9781402055898 Publisher(s): Springer Netherlands Format: ePub/PDF Author(s): Donati, Edgardo R. - Sand, Wolfgang

DOWNLOAD HERE

Similar manuals:

Microbial Processing Of Metal Sulfides