

1. Record Nr.	UNINA9910346666003321
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Titolo	Recent Advances in Hydro- and Biohydrometallurgy / Kostas A. Komnitsas
Pubbl/distr/stampa	Basel, Switzerland : , : MDPI, , 2019
ISBN	9783039213009 3039213008
Descrizione fisica	1 electronic resource (212 p.)
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Sommario/riassunto	<p>This Special Issue of Minerals presents recent, select studies that highlight advances in the fields of hydro- and biohydrometallurgy. It aims to attract the interest of readers and especially of young scientists and students in this fascinating scientific discipline. The topics addressed include the following:</p> <ul style="list-style-type: none"> • Stirred reactor and heap leaching of laterites (limonitic and saprolitic), as well as iron control during atmospheric acid leaching; • Leaching of a typical porphyry copper sulfide deposit from Antofagasta, Chile, using chloride-ferrous solutions; • Leaching of chalcopyrite ores with various leaching media; • Leaching of white metal from a Teniente converter in NaCl-H₂SO₄ media; • Study of the galvanic effect of pyrite and arsenopyrite during the leaching of gold ores; • Leaching of marine nodules in the presence of reducing agents to extract Mn; • Bioleaching of gold ores in the presence of iodide-oxidizing bacteria; • A two-step sequential leaching process, involving bioleaching and chemical leaching, to treat apatite ores containing P and U impurities; • Bioreductive dissolution of iron minerals present in monazite in stirred reactors using <i>Acidithiobacillus</i> (A.) species; • Heap leaching of municipal solid waste incineration bottom ash (MSWI BA) for the recovery of Zn and Cu.