



*minerals*

IMPACT  
FACTOR  
2.2

CITESCORE  
4.1

*Special Issue Reprint*

## Recent Advances in Hydro- and Biohydrometallurgy

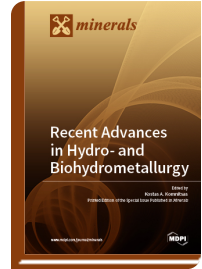
[www.mdpi.com/books/reprint/1460](http://www.mdpi.com/books/reprint/1460)

Edited by

Kostas A. Komnitsas

ISBN 978-3-03921-299-6 (Softback)

ISBN 978-3-03921-300-9 (PDF)



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:

- 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-H<sub>2</sub>SO<sub>4</sub> 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 *Acidithiobacillus* (A.) species;
- Heap leaching of municipal solid waste incineration bottom ash (MSWI BA) for the recovery of Zn and Cu.



Order Your Print Copy

You can order print copies at

[www.mdpi.com/books/reprint/1460](http://www.mdpi.com/books/reprint/1460)

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



### **Open Access**

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



### **Author Focus**

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



### **High Quality & Rapid Publication**

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



### **High Visibility**

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



### **Print on Demand and Multiple Formats**

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.