



VOLUME 88, NOS. 1–2

1 AUGUST 2008

ISSN 0301-7516

INTERNATIONAL JOURNAL OF MINERAL PROCESSING

Editors: K. Heiskanen
D.R. Nagaraj

VOLUME 88, NOS. 1–2

CONTENTS

1 AUGUST 2008

(Abstracted/Indexed in: A.G.I.'s Bibliography and Index of Geology, Chemical Abstracts, Current Contents, Pascal/CNRS)
Also covered in the abstract and citation database SCOPUS®. Full text available in ScienceDirect®.

Structural changes in olivine $(\text{Mg}, \text{Fe})_2\text{SiO}_4$ mechanically activated in high-energy mills P. Baláž, E. Turianicová, M. Fabián, R.A. Kleiv, J. Briančin and A. Obut	1
Leaching of impurities for the up-gradation of molybdenum oxide and cementation of copper by scrap iron B.-S. Kim, M.K. Jha, J. Jeong and J.-c. Lee	7
Study the effect of chromite ore properties on pelletisation process V. Singh and S.M. Rao	13
Modelling of output and power consumption in vertical shaft impact crushers M. Bengtsson and C.M. Evertsson	18
Thermal decomposition of copper concentrates under concentrated radiation — Mechanistic aspects of the separation of copper from iron sulfide phases L. Winkel, I. Alxneit and M. Sturzenegger	24
Bacterial leaching of nickel laterites using chemolithotrophic microorganisms: Identifying influential factors using statistical design of experiments G.S. Simate and S. Ndlovu	31
Bioleaching of chalcopyrite with thermophiles: Temperature–pH–ORP dependence J. Vilcáez, K. Suto and C. Inoue	37
Acid treatment of copper sulfide middlings and rougher concentrates in the flotation circuit of carbonate ores A. Luszczkiewicz and T. Chmielewski	45
Role of mineral specific bacterial proteins in selective flocculation and flotation P. Patra and K.A. Natarajan	53



0301-7516 (20080801)88:1/2;1-T