



VOLUME 93, NO. 2

1 OCTOBER 2009

ISSN 0301-7516

**INTERNATIONAL JOURNAL OF
MINERAL
PROCESSING**

**Editors: K. Heiskanen
D.R. Nagaraj**

(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®.

Review article

- Rejection of arsenic minerals in sulfide flotation — A literature review
X. Ma and W.J. Bruckard 89

Research papers

- Investigating the influence of total electrolyte concentration and sodium–calcium ion competition on controlled dispersion of swelling clays
J. Lim, R.G. de Kretser and P.J. Scales 95
- Treatment of Acid Mine Drainage (AMD) in South Brazil: Comparative active processes and water reuse
A.N. da Silveira, R. Silva and J. Rubio 103
- Effect of structure-directing agent on $AlPO_4$ -n synthesis from aluminum dross
N. Murayama, K. Arimura, N. Okajima and J. Shibata 110
- The effect of flocculant solution transport and addition conditions on feedwell performance in gravity thickeners
A.T. Owen, T.V. Nguyen and P.D. Fawell 115
- The effect of particle shape and hydrophobicity in flotation
P.T.L. Koh, F.P. Hao, L.K. Smith, T.T. Chau and W.J. Bruckard 128
- The effect of anatase, rutile and sodium titanate on the dissolution of boehmite and gibbsite at 90 °C
K. Dudek, F. Jones, T. Radomirovic and P. Smith 135
- The entrainment factor in froth flotation: Model for particle size and other operating parameter effects
S.J. Neethling and J.J. Cilliers 141
- Development of a mathematical expression for the variation of amorphization phenomenon during intensive milling of minerals
M.Sh. Bafghi, A.H. Emami, J. Vahdati Khaki and A. Zakeri 149
- Interaction of cuprite with dialkyl dithiophosphates
A.N. Buckley, S.W. Goh, W.M. Skinner, R. Woods and L.-J. Fan 155
- The flotation of gersdorffite in sulphide nickel systems — A single mineral study
G.D. Senior, L.K. Smith, E. Silvester and W.J. Bruckard 165
- Separation of small nonferrous particles using a two successive steps eddy-current separator with permanent magnets
M. Lungu 172
- Sequestration of CO_2 in magnesium silicates, in Western Macedonia, Greece
N. Koukouzas, V. Gemeni and H.J. Ziock 179
- Multichannel reflectance spectral assaying of zinc and copper flotation slurries
O. Haavisto and J. Kaartinen 187
- The surface dilational viscosity of polypropylene glycol solutions and its influence on water flow and foam behavior
S.N. Tan, A. Jiang, J.J. Liau, S.R. Grano and R.G. Horn 194

Short communications

- Cone crusher chamber optimization using multiple constraints
D. Gang, H. Dongming and F. Xiumin 204
- Magnesium recovery from magnesite tailings by acid leaching and production of magnesium chloride hexahydrate from leaching solution by evaporation
M. Özdemir, D. Çakır and İ. Kıpçak 209

