

IMPC 2006 List of Presentations (with authors)

MAIN SUBJECTS

General Overview

1 Comminution & Classification

2 Mineral and Material Characterization

3 Process Mineralogy

4 Physical Enrichment (Gravity, Magnetic and Electrostatic Separation)

5 Agglomeration

6 Surface Chemistry

7 Flotation Fundamentals

8 Flotation Technology

9 Industrial Minerals

10 Processing of Boron Minerals

11 Coal Processing, Utilization and Energy

12 Hydro- and Biohydrometallurgy

13 Precious Metals

14 Dewatering

15 Simulation, Control & Modeling

16 Process&Plant Design, and Operating Practice

17 Sustainability for Mineral Extraction

18 Waste Treatment and Utilization

19 Soil Remediation

20 Environmental

21 Miscellaneous

General Overview 1

001 A short history of mineral processing

F. Habashi

002 Towards XXIII. IMPC: Anecdotes

Z. Doğan

003 Helping researchers in mineral processing find the answers they seek by the most valuable journals

D. Kostova

1 Comminution & Classification

004 Sensor sorting technology – is the minerals industry missing a chance? (Plenary)

H. Wotruba

005 The latest developments in fine and ultrafine grinding technologies (Plenary)

M. Gao, R. Holmes, J. Pease

006 Direct breakage energy measurements in a jaw crusher

E. Stamboliadis, C. Harba

007 Prediction of AG/SAG mill variables from surface vibrations

S. J. Spencer, V. Sharp, J. J. Campbell, R. J. Holmes, T. Rowlands, D. G. Barker, K. J. Davey, P. L. Phillips

008 Experimental study of attrition effects in a hematite-goethite iron ore during hydrocycloning.

E. Donskoi, J. J. Campbell, J. M. Young, T. Raynlyn

009 Increasing silicate carbonation kinetics by use of mechanical activation

R. A. Kleiv, K. L. Sandvik, M. Thornhill

010 Micronized milling of non-metallic raw materials in mills new construction

L. Andric, M. Petrov, V. Milosevic, S. Mihajlovic

011 The influence of transverse profile of crusher jaws on comminution effects

Z. Naziemiec, T. Gawenda, T. Tumidajski, D. Saramak

012 Rheological behaviours in stirred media milling of limestone

M. He, K. S. E. Forssberg

013 Charge segregation and slurry transport in long sag mills

S. Mwansa, P. Condori, M. S. Powell

014 Grindability tests in heated bond mill

G. Mucsi, B. Csöke, J. Faitli, K. Solymár

015 Measurement of electrical energy consumption in a Bond ball mill.

M. J. Daniel

016 Energy reduction in semiautogenous grinding mills via the design of mill internals

R. K. Rajamani, S. Latchireddi, B. K. Mishra,

017 Modeling of liberation in recycling passenger vehicles-Part 1: Comparing the modeling of comminution/liberation in minerals processing and shredding of cars

M. A. Reuter, A. van Schaik

018 Production of ultra-fine particles in the new type air classifier

J. Kolacz

019 Technological applications of vibrating mills with horizontal chambers

L. V. Kuzev, I. Ionkov, J. Dedelyanova

020 Quality control for the production of alumina grinds using ball mills

B. Csöke, G. Mucsi, L. Csende, Z. Balogh

021 Characterization of compressive breakage behaviour

M. Bengtsson, P. Svedensten, C. M. Evertsson

022 The normal load on roll surfaces of high-pressure grinding rolls

G. Unland, J. Kleeberg

023 New microprocessor system for control of ore grinding process

T. A. Penzov, I. S. Vragov, I. D. Lalov

024 A new concept on sampling system with air cannon mechanism

U. Yünel, C. Hiçyılmaz

025 Image analysis of ball mill and HPGR cements-effects on service properties

İ. B. Çelik, M. Öner

026 Estimation of the motor power of the tower mill through dimensional analysis

S. Nitta, T. Furuyama, A. Bissombolo, S. Mori

027 Investigation of grinding aids for bauxite selective grinding

Y. X. Han, Y. L. Tian, X. S. Yang, W. Z. Yin

028 Fine crushing of iron ore through technical-economical optimization technologies

P. Hedvall, B. O. Tjell

029 Fine wet screening technology advances in iron ore processing

C. P. Kelley

030 Comparison of ultrafine grinding technologies

J. Parry, B. Klein, D. Lin

031 Determining an appearance function for compressed bed breakage

R. Hawkins, E. Manlapig

032 Grinding relationships using inert grinding media

D. Mochev, L. Kuzev, I. Nishkov, S. Seksenov, M. Marinov

033 Influence of particle size on the shear strength of mineral filter cakes

B. Benli, O. Ozcan Taşpınar

2 Mineral and Material Characterization

034 The approximation of grain composition curves by non-parametric statistical methods

T. Niedoba, T. Tumidajski

035 Dependencies between grain shapes, grain composition and size of specific surface

B. Peszko, T. Niedoba

036 Mineralogical and chemical analyses of the scheelite ore from the Sudnik mine, Serbia

J. Stojanovic, S. Radosavljevic, V. Kasic

037 The mineralogy of arsenic and the effect of the particle size on arsenic liberation

H. Babaie, M. I. Akbari, K. Mirjalili, M. Roshani

038 Rheological characteristics of arid region nickel laterites

D. M. Muir, J. A. Johnson

039 New quantitative image analysis method for the characterization of mineral and fibrous materials

H. J. Gusovius, P. Ay, H. G. Schmid, J. Müssig

3 Process Mineralogy

040 Representation of particle multiminerall distributions

S. L. Gay, A. D. Latti

041 Particle texture analysis in process mineralogy

K. Moen, T. Malvik, T. Breivik, J. Hjelen

042 The effects of mineralogical properties of samples on liberation phenomena in electrical disintegration

M. Ito, M. Yokota, K. Kaneko, S. Owada, S. H. Cho, T. Nishimura, T. Nakagawa, Y. Nakamiya

043 A methodology for mineralogical evaluation of underground pre-concentration systems and discussion of potential process concepts

A. S. Bamber, B. Klein, D. M. Stephenson

4 Physical Enrichment (Gravity, Magnetic and Electrostatic Separation)

044 Dry separation of fine mineral grains

M. C. Leaper, S. W. Kingman, N. J. Miles, A. T. Catherall, P. Lopez-Alcaraz, P. J. King, L. Eaves

045 High-gradient magnetic filters with permanent NdFeB magnets

V. Zezulka, P. Straka

046 Do we really know how jigs operate?

N. Naudé, A. V. Kolesnikov, L. Lorenzen,

047 SLong magnetic separator promoting Chinese oxidized iron ore processing industry

D. Xiong

048 Perlite-obsidian separation using electric methods

M. Ghiani, A. Serici, M. Agus, R. Peretti, A. Zucca

049 Versatile packed column jigging for fine particle separation

D. C. Yang, P. Bozzato 288

050 The purification of illite by tribo-electrostatic separation

K. K. Ho, C. H. Chan

051 Separation of chromium waste in aspect of its complex chemical processing

M. T. Brożek, A. Jarosiński, W. Mączka

052 The influence of pH on the electrostatic separation of rutile and zircon

J. A. Venter, M. K. G. Vermaak

053 Gravity concentration of poor chromium ores in Albania

G. Demi, S. Koci, B. Koci

054 Development of the magnetite-hematite quartzites beneficiation on the basis of new technologies

V. V. Karmazin, S. I. Kretov

055 Beneficiation studies of supergene & hypogene ore types at sungun copper porphyry deposit, case study

S. M. Heidari

056 Optical sorting applied for Brazilian carbonate rock

J. J. Varela, C. O. Petter, H. Wotruba

057 Magnetic separation in two kinds of extraction matrices

N. M. Sido, A. Mailfert, G. Gillet, I. Roasanarivo

058 Upgrading pegmatite ore by optoelectronic sorting - Techno-economical aspects

H. R. Manouchehri, K. S. E. Forssberg

059 The increase of Al_2O_3/SiO_2 ratio in Bookan bauxite ore by heavy liquid separation

H. Abdollahi, M. Noaparast, M. Kolahdoozan, A. Amini, A. Ghorbani

060 Beneficiation of low grade fine manganese ores

M. Oliazadeh, M. Noaparast, R. Dehghan

061 Pulsating high gradient magnetic separation used for recycling metals from tails

L. Chen, N. Ren, D. Xiong

062 A new flushing system for cylindrical dense medium separators

P. Bevilacqua, L. Albini, P. Bozzato, P. B. Gandolfi,

063 Laboratory investigation of valuable minerals concentration from poly-metallic wolfram-antimony ore deposit "Osanica"

Z. Bartulović, N. Canić, S. Radosavljević, D. Radulović

064 Impulse electromagnetic treatment in the course of ore dressing

S. A. Gontcharov, P. P. Ananjev, V. P. Bruev, G. V. Sidelnikova

065 Upgrading of chromite concentrate by high intensity dry magnetic separation

O. Bayat, H. Vapur, V. Arslan, M. Anil, S. Sakatoglu, H. Yavas

066 Removal of magnetic fractions from wollastonite ore using magnetic separation

S. Dikmen

5 Agglomeration

067 Investigations on the densification of particulate materials by stamping

J. Rosenkranz, H. Z. Kuyumcu

068 Research on thermal operation of a Grate-Kiln for oxidized pellets

Z. Hanquan

069 Role of hydrodynamic cavitation by high intensity agitation in fine particle aggregation and flotation

Z. Xu, J. Choung, W. Sun, Z. Cui

070 Characterization of multi functional sorbent based on vermiculite rich clay for the removal of potentially contaminating elements

W. C. Pereira, D. M. Silva, R. C. Villas Boas

6 Surface Chemistry

071 Wettability of sulfides related to mineral flotation and flocculation processes: strong long-range interactions between hydrophobic surfaces

V. E. Vigdergauz, E. A. Shrader, L. M. Sarkisova, I. N. Kuznetsova

072 Observation of aggregate structure of fluorescent powders suspended in heptane by interactive force measurement

A. Otsuki, J. Sadaki, T. Fujita, K. Yamaguchi, A. Shibayama

073 Surface characteristics and flotation behaviour of sperrylite and palladoarsenide

N. J. Shackleton, V. Malysiak, C. T. O'Connor

074 Adsorption of phenol and aniline by montmorillonite clay

M. Boufatit, N. Iddir, A. Khouider, H. Ait- Amar

075 Surface Chemical studies on particle stabilized froths

R. J. Pugh

076 Interface phenomena in Quartz-feldspar flotation

J. A. Mielczarski, E. Mielczarski

077 Surface chemical characterization of acidithiobacillus ferrooxidans grown in presence of different metal ions

M. N. Chandrababha, K. A. Natarajan, P. Somasundaran

078 Heavy metals biosorption by coconut shell powder

G. A. H. Pino, L. M. S. de Mesquita, M. L. Torem, G. A. S. Pinto

079 Stability of foams in the presence of ionic and non-Ionic surfactants

L. Wang, R. H. Yoon

080 Infrared spectrum study on the binding characteristics of the sodium oleate on the silicate minerals and its impacts on the mineral flotation behaviors

J. Muxin, S. Chuanyao

081 Characterisation of stability behaviour of ultra fine alumina powder in view its colloidal processing by gel-casting

S. S. Gaydardzhiev, P. Ay

082 Biosorption mechanism of lead from aqueous solution onto *Nocardia amarae*

Y. M. Zhu, D. Z. Wei

083 Effect of the solution surface tension for flotation, flocculation and oil agglomeration processes

A. Özkan, M. Yekeler

084 Adsorption of polysachharides on pyrite

Ö. Bıçak, Z. Ekmekçi, D. J. Bradshaw

7 Flotation Fundamentals

085 Microbially-induced mineral flotation and flocculation: Prospects and challenges (Plenary)

K. A. Natarajan

086 Synthesis of flotation reagents through prediction of physical, chemical and technological properties

P. M. Solozhenkin

087 Electrochemical floatability of enargite and effects of depressants

H. Guo, W. T. Yen

088 The complex behavior of fatty acids in fluorite flotation

D. W. Fuerstenau, R. Bunge

089 The relationship between froth stability and flotation performance down a bank of cells

K. Hadler, N. Barbian, J. J. Cilliers

090 Picobubble enhanced flotation of coarse phosphate particles

D. Tao, M. Fan, B. K. Parekh, R. Honaker

091 Thioamides as additional collectors in the flotation of gold containing sulfide ores

A. Boteva, B. Vladkova

092 Population balance modeling of flocculation of mineral suspensions by polymers

P. Somasundaran, P. C. Kapur, V. Runkana,

093 Surface cleaning action of dithiophosphate collector in pyrite flotation

S. R. Grano

094 Reduction of fine quartz entrainment in chalcopyrite flotation by polymer depressants

Y. Peng, M. Ourriban, P. Pelletier, J. Girard, H. Jang, Q. Liu

095 Effective use of bubble size distribution measurements

G. R. Forbes, G. D. Jager, D. J. Bradshaw

096 Sulfidisation mechanisms for heavily oxidised sulfide minerals

A. J. H. Newell, Z. Ekmekçi, D. J. Bradshaw

097 Electrostatic interactions in flotation of sulphides and non-sulphides

T. W. Healy

098 Mechanism and regularities of mineral hydrophobisation in flotation

A. A. Abramov, G. Őnal, G. G. Shtoik

099 Bubble distributions in flotation machines: Measurement and evaluation with increasing gas velocity

C. O. Gomez, C. A. Acuna, H. E. Girgin, J. A. Finch

100 Flotation of sulphids ore fines and ultrafines particles

J. Rubio, F. Capponi, E. Matiolo

101 The hydrodynamic interactions of stationary particles and rising bubbles of comparable size

P. Basařov, D. Horn, M. Hubiřka, V. Machoř

102 Investigation of effects of ultrasonic waves on various phases of froth flotation

ř. G. Őzkan, H. Z. Kuyumcu

598

103 A novel simple method for contact angle determination of particulate solids

Ç. Hořten, Ő. D. Eratak

604

104 Electrochemical behavior of pyrite in the absence and presence of DTPI at acidic and alkaline conditions

C. Hiçyılmaz, N. E. Altun, Z. Ekmekçi, G. Gkağaç

105 Electrochemical investigation of pyrite floatability and hydrophobicity with dithiophosphate and Fe-Ions

T. Gler, Ő. Akdemir, T. Camuzcu

106 Reverse flotation of trona gangs of kazan deposit in Turkey

G. Gozke, B. B. Gonul, O. Ozcan Tařpınar

107 The synergistic effect of mixture of collectors on adsorption behaviour on chalcopyrite

E. Bağcı, Z. Ekmekçi, G. Gkağaç, D. J. Bradshaw

108 Synergistic effects in mix collector systems for non sulfide mineral flotation

L. O. Filippov, I. V. Filippova

109 Relationship of tourmaline floatability with crystal chemistry

H. Yuexin, R. Fei, Y. Wanzhong, D. Yazhuo, Y. Xiaosheng, T. Yilan, Y. Zhitao,

W. Zixiang

110 Expansional osmosis flotation

M. M. Petrov, V. Jovanovic, S. Mihajlovic, Z. Sekulic

111 The use of non-polar oil in the reverse cationic flotation of an iron ore

S. R. N. Pereira, A. E. C. Peres, A. C. Araujo, G. E. S. Valado

112 Interaction between small mercapto Organic molecular and complex lead-zincstibium sulfides

W. Sun, Y. Hu, R. Liu

113 Role of treatment on dithiophosphate adsorption on chalcopyrite
T. Güler, C. Hiçyılmaz, G. Gökağaç, Z. Ekmekçi

114 The plant draft studies on jig rejects of Kayseri-Yahyalı-Dereköy oxidized Pb-Zn ores by flotation
M. Karaoğlu, P. Binici, H. Sezenler

8 Flotation Technology

115 Electrochemistry of flotation -the potential control flotation technology of sulfide minerals (Plenary)
D. Wang, W. Qin, G. Gu, Y. Song, Q. Dong

116 Electrochemical selection of polymetallic ores
V. Panayotov, M. Panayotova

117 The practice of scheelite ore flotation with chelate collectors in China
S. Chuanyao, L. Changgen, C. Xinchao

118 New reagents and reagent modes for flotation of Cu-Ni-Pt ores of Russia
V. A. Chanturiya, T. V. Nedosekina, T. N. Matveyeva, T. A. Ivanova

119 Stibnite recovery from complex tolukuma ore
N. S. Ealedona, T. Fujita

120 Effect of slime coating on flotation of sulphide minerals
M. Xu, P. F. Wells

121 Influence of hydrogen peroxide on flotation kinetics the pyritic copper ore “Dolovi 2” copper mine majdanpek
D. Milanovic, Z. Markovic, M. Dimitrijevic

122 Flotation of dispersed fine silica particles
S. Ata, G. J. Jameson

123 Optimal conditions of sphalerite depression by zinc sulphate
A. A. Abramov, M. Chettibi, G. Önal

124 Study on improved silicates removal technology in direct bauxite flotation
X. Cheng, A. Ren, G. Zheng

125 Modeling of vibration attrition
L. V. Kuzev, D. Mochev, N. P. Hristov

126 The role of activators in pyrrhotite flotation from the merensky reef
J. G. Wiese, P. J. Harris, D. J. Bradshaw, J. S. Laskowski

127 The effect of energy on quartz flotation in a novel oscillatory baffled column
C. J. Anderson, D. A. Deglon, M. C. Harris

- 128 A comparison of flotation froth stability measurements and their use in the prediction of concentrate grade
S. H. Morar, D. P. Hatfield, N. Barbican, D. J. Bradshaw, J. J. Cilliers, B. Triffett
- 129 Development and application of high selectivity collectors in copper ores flotation
Z. Pretkovic, Z. S. Markovic, V. Trujic
- 130 Effect of MgO minerals on pentlandite flotation
D. Fornasiero, J. Ralston
- 131 Effect of interfacial properties on water drainage and recovery in froth column
A. V. Nguyen, S. I. Karakashev
- 132 Flotation pulp conditioning intensity and scale-up considerations
T. Negeri, M. Boisclair, D. Cotnoir
- 133 An original method of studying flotation media density
A. Boteva, H. Petrova
- 134 Size by size flotation analysis of fines from mining of a Ni-Cu sulphide ore
B. Nanthakumar, S. Kelebek, T. Katsabanis
- 135 A Study of gas hold-up in a laboratory scale flotation cell
L. Rudolphy, R. A. Grau, K. Heiskanen
- 136 Laboratory tests for flotation of copper zinc ores of Albania
G. Demi, S. Boci, A. Kaltani
- 137 Optimisation of ore dressing process in the akdaga mine, Turkey
S. I. Stamenov, S. M. Stoev, S. B. Strashimirov, S. P. Dobrev, E. I. Tododova
- 138 Recovery of Cu-Zn from kayabaşı (Turkey) massive sulphide ore
T. Yilmaz, İ. Alp, H. Deveci, O. Celep
- 139 Relating the changes in the froth structure to the metallurgical performance in flotation of a Cu-Zn complex sulphide ore
Z. Ekmekçi, M. Can, D. Bradshaw
- 140 Study on comprehensive recovery of metals in Cu-Pb-Zn Complex polymetallic ores
W. Ming, S. Chuanyao, S. Jianzhong, W. Rongsheng
- 141 Increasing selectivity of chalcopyrite and chalcocite flotation from pyrite in Sarcheshmeh: Role of different collectors
M. Banaei, F. Rashchi, R. Vaghar, A. Eslami
- 142 Flotation recovery of copper from the converter slag blended with Ore At the Sar cheshmeh copper complex
M. H. Shahrahmani, M. R. Yarahmadi, S. Zeidabadi

143 Fractional concentration flow sheet -possibility for effective processing of the low grade ores

A. Boteva, M. Parashkevova

144 Study on comprehensive recovery of metals in Ge-rich complex lead-zinc sulphide and mixed ores

Z. Xiuying, S. Chuanyao, W. Fuliang, H. Fayu, Z. Shaozhen

145 Application of modern research methods to evaluation of copper ores enrichment new technologies

K. Trybalski, D. Foszcz, A. Krawczykowska, A. Konieczny

146 Innovative aeration in column flotation

K. Dedelyanova, M. Metodiev

147 Application of stage wise flotation using tree technique in Na-K feldspar separation

C. Karagüzel, M. S. Çelik

9 Industrial Minerals

148 Italkali process for the production of fertilizer K_2SO_4 from a kainite-halite run-ofmine

F. Desalvo, F. Lanzino, M. A. Giambra, G. Belardi

149 Selective flotation of magnesite from microcrystal magnesite ore

N. Calic, D. Vuckovic

150 Characterization and beneficiation of a northeastern Brazilian zircon

C. H. Sampaio, S. Sabedot, H. Wotruba

151 The effect of circulating water microorganisms on the apatite-nepheline flotation

G. A. Evdokimova, A. Gershenkop, Y. E. Brylyakov

152 Surface coating of needle-like wollastonite particle with nano-sized calcium carbonate and application

Y. Yufen, G. Guosheng, F. Shimin, C. Zhenfang

153 Advantages of chelating surfactants in kaolin processing

S. A. Ravishankar, S. Mathur, A. Gorken

154 Study on modifying nano-hydroxyapatite

S. Shifu, S. Chuanyao

155 Research on surface and interface characteristics nanometric TiO_2 /kaolinite

S. Lei, W. Gong, Y. Qu, C. Bai, Y. Gu, C. Wang, B. Xiong

156 Reciprocal effect of depressants and frothers on collectors interaction with minerals

S. Titkov, T. Gurkova, N. Chumakova, R. Sabirov, N. Novoselov, S. Aliferova, U. Malishev

157 Application of mineral processing technology to the recovery of pure Crystallized glass from the waste in the production of glass ceramics plate
T. Wakamatsu, M. Ichidate, T. Kuzuya, S. Ueno, J. Sato

158 Sodium silicate production from chalcedony sands
I. Nishkov, M. Marinov, L. Kuzev, M. Stancheva

159 Surface properties of talc and their effect on the behaviour of talc suspensions
E. Burdukova, J. S. Laskowski, D. J. Bradshaw

160 Flotation chemistry considerations in the development of flotation technology for the trona industry
O. Ozdemir, A. V. Nguyen, Z. S. Nickolov, M. S. Celik, J. D. Miller

161 Sample processing by tabling for refractory impurities detection and analysis in glass sand
R. Mancini, L. Manfredotti, P. Marini, A. Gallo

162 Preliminary investigation of ore dressing on the beach placer of Oman Sea in the south of Iran
A. Hajati, K. Saberyan, M. E. Akbari, M. A. Forutan, M. R. Abdian

163 Preparation and concentration of quartz sand from Kolubara coal basin
Z. Sekulic, N. Canic, Z. Bartulovic, M. Babovic

164 Glass sand processing by biochemical leaching and magnetic separation
I. Štyriaková, I. Štyriak, P. Malachovský, S. Hredzák

165 Usage of waste materials from plant “Feldspar”- Bujanovac in ceramical industry
D. S. Radulović, V. Jovanović, Ž. Sekulić, N. Canić, Z. Bartulović

166 High quality fused silica and fused quartz from Egyptian concentrates
T. R. Boulos, M. B. Morsi, S. S. Ibrahim, O. A. Fouad

167 Recovery and value addition to ilmenite from medium grade Indian beach placer
P. Bhattacharyya, V. Kumar, B. Nayak, P. N. Mohandas, K. K. Bhattacharyya

168 Mixed cationic/anionic collectors in the flotation separation of albite from greek stefania feldspar ore
A. Vidyadhar, K. H. Rao, K. S. E. Forsberg

169 Separation of feldspar minerals from quartz using magnetic carrier technology
V. Bozkurt, Y. Uçbaşı, E. Sönmez, H. İpek, S. Koca

170 The effect of sodium silicate and sodium polyacrylic acid on the slip casting characteristics of kaolins used in sanitary ware
M. S. Eygi, G. Ateşok

171 Turbidity removal from natural stone suspensions
B. Ersoy, A. M. Alptekin

172 The processing studies on the garnets of Kırşehir-Kaman-Savcılı
N. Şahin, C. Turgut, A. B. İnan

173 Ore dressing of cryptocrystalline magnesite in Turkey
D. Renda, M. Z. Doğan

174 Concentration of kyanite ore and production of mullite
C. B. Abi, S. B. Gürel, Ş. Babacan, O. F. Emrullahoğlu

175 Geo-metallurgical characteristics of sattankulam heavy minerals sand deposit,
Tamilnadu, India
C. V. G. K. Murty, S. M. Rao, S. Asokan

176 Investigation of magnesia extraction from Oman Sea water in Chabahar area in
Iranian coast at pilot plant scale
K. Ghazizadeh, P. Shamsi, Z. Shafae
998

177 Evaluation of reverse flotation for the trona industry
A. Jain, O. Ozdemir, X. Wang, J. D. Miller

178 Fine and ultrafine milling and coating of limestone
S. R. Mihajlovic, M. Petrov, Z. Sekulic, D. Radulovic

179 The proposal of a cement manufacturing system using the gas-hydrate in consideration of
reduction of energy consumption and carbon dioxide emission
S. Matsuo, K. Okaya, J. Sadaki, K. Inatsu

180 Triton X-100 and its oligomer, Tyloxapol (Triton WR -1339): Their collecting and
electrokinetic behavior in the flotation of quartz and microcline
M. S. El Salmawy, E. Kusaka, T. Wakamatsu

181 Beneficiation studies on Malatya pütürge region pyrophyllite
A. Erdem, B. Karaoğlu, S. Aydın

182 Removal of thorium by acidic leaching from Eskişehir-Sivrihisar-Kizilcaören
Beylikova complex fluorite-barite ores
A. Gülmez, M. Ulusoy, M. Ertem, D. Özsuca, A. Yörükoğlu

183 Evaluation of granitic rocks from Kırşehir massive for the ceramic industry
S. Saklar, C. Oktay-Diker, İ. D. Önenç, M. Karadeniz

184 Celestite-Gypsum separation by flotation
E. Tuncer, G. Bulut, S. Atak

185 A feasibility investigation of Akseki boehmite ore for refractory industry
B. G. Yıldırım, T. Batar, E. Kaya, C. Çelik

10 Processing of Boron Minerals

186 Beneficiation of boron minerals (Plenary)

G. Özbayoğlu

187 Magnesium and silica intake rates and washing characteristics of filter cakes in the production of boric acid from colemanite

A. A. Ceyhan, A. N. Bulutcu

188 Beneficiation of colemanite tailings

N. Acarkan, T. Şaroğlu, O. Kökkılıç

189 Effect of boron adding on BSCCO (2223) superconducting ceramics

L. Özmen, A. Kılıç, E. İnger

190 The effect of polyelectrolyte on filtration rates of mud in the production of boric acid

A. A. Ceyhan, A. N. Bulutcu

191 Interaction between MgO and B(OH)₃ under high-energy milling

A. Obut, İ. Girgin, P. Balaz

192 Reactivity of Na₂B₄O₇ · 10H₂O in HCl-CH₃OH medium

A. E. Ertaş, İ. Girgin

193 Concentration of borax by two stages scrubbing

N. Acarkan, G. Bulut, O. Kangal, G. Önal

194 High-energy milling of sodium silicate and borate compounds

A. Obut, İ. Girgin, P. Balaz

11 Coal Processing, Utilization and Energy

195 Coal flotation – the future (Plenary)

J. S. Laskowski

196 Zero conditioning time concept and its application in flotation

K. Ding, J. S. Laskowski

197 Separation of petrographic constituents in coal

X. Q. Duan, W. Qi, X. H. Fu, Z. N. Wang

198 The utilization of technological waste during the process of pressing into briquettes of lignite coals

I. Grigorova, I. Nishkov, P. Tsvetanov, L. Kuzev

199 Use of new washability curves to predict the specific gravity of cut and misplacement for any cleaning device

A. K. Mishra

200 Role of mixed low rank coal during fuel conversion of woody biomass by using hydrothermal treatment

M. Nonaka, T. Hirajima, K. Sasaki, R. Kakizoe, F. Tsuchiya, M. Tsurui

201 The growing unbalance of the world energy market a challenge for European lignite
M. Rumberger

202 Experimental and theoretical investigation of pyrolysis of fast growing biomass
W. Klose, A. P. Schinkel, W. Wiest

203 Optimized spiral separation performance for ultrafine coal cleaning
R. Q. Honaker, M. Jain, B. K. Parekh, M. Saracoglu

204 The effect of wettability on coal bulk density and its handleability
M. E. Holuszko, J. S. Laskowski

205 Cleaning possibility of Şırnak asphaltites through flotation
C. Hiçyılmaz, N. E. Altun

206 Bacterial leaching of coal for the removal of pyritic S
F. Göktepe, F. D. Pooley

207 Improvement of coal grindability by microwave pretreatment
G. Özbayoğlu, T. Depci

208 Advantages of grinding by using anionic dispersants for clean coal technologies
G. Ateşok, M. Özer, F. Boylu, H. Dinçer, N. A. Mütevellioğlu

209 Atomization properties of CWS's depending on the coal rank
F. Boylu, G. Ateşok

210 Effect of mixing conditions on flocculation performance of fine coal tailings
F. Oruç, E. Sabah

211 Sulphur and ash removal and valuable metals beneficiation from asphaltite
A. E. Yüce, K. T. Perek, N. Acarkan, V. Gürkan, G. Önal

212 Recovery of coal from fine tailings of a coal washing plant using centrifugal gravity separators
V. T. Engin, G. Güler, İ. Cöcen, T. Çiçek

213 A research on the washability characteristic of stocked coal of Seyitömer lignites
B. Öteyaka, A. Yamık, A. Uçar, O. Şahbaz, U. Demir

214 Underground gasification in western black sea area and thermodynamic analysis
G. Atagündüz

215 Preparation of purified coal slurry fuel and its combustion in diesel engine
X. W. Wang, W. F. Zhang, X. G. Wang, Z. N. Wang, J. Y. Huang

216 Characteristic of humic acids product of lignite biotransformation
T. D. Popova, K. I. Chakalov, K. L. Mitov, V. Savov

217 Application of clean coal technology in the east Ningxia coals
W. Qi, X. Q. Shu

218 Study on the model of maceral liberation in Chinese coals with high inertinite
X. Q. Shu, G. Z. Gong, W. Qi, M. L. Wang

219 Cleaning of Müzret (Yusufeli-Artvin) bituminous coal by oil agglomeration using kerosene
T. Uslu, E. Şahinoğlu, İ. Alp, H. Deveci, M. Savaş

220 Breakage behaviour of coal and petroleum coke
V. Deniz, G. Ekincioğlu

221 Combustion of coal water slurries with different coalification degree of Turkish coals
F. Boylu, G. Ateşok, M. Özer, J. Gülen

222 The application of jameson flotation column for the beneficiation of Tunçbilek washery tailings
A. Uçar, B. Öteyaka, A. Yamık, O. Şahbaz, U. Demir, B. Yılmaz

12 Hydro- and Biohydrometallurgy

223 Pressure hydrometallurgy update (Plenary)
F. Habashi

224 The modeling of an acid ion-exchange-resin's decay in cobalt recovery
A. B. Nesbitt

225 Synthesis and characterization of biogenic Mn oxides by a Mn-oxidizing fungus
K. Sasaki, M. Matsuda, T. Hirajima, K. Takano, H. Konno

226 Phosphorous slag as raw material for production of precipitated silicon dioxide and mineral additives
Z. S. Abisheva, E. G. Bochevskaya, A. N. Zagorodnyaya, L. K. Phrangulidi

227 Study on bioleaching of primary chalcopyrite ore with thermoacidophilic archae
T. Lei, J. K. Wang, P. Zou, W. B. Zhang

228 Effect of ore type on microbial degradation of carbonaceous matter in refractory gold ores
R. K. Amankwah, W. T. Yen

229 Extractive separation of Hf (IV) from Zr (IV) at pH=1-4 using cyanex 301 in kerosene
M. Ghannadi Maragheh, K. Saberyan, F. Rashchi, A. H. Meysami, B. A. Kalantari

230 The effect of bioleaching on kinetics of chemical dissolution of a zinc sulfide concentrates
P. S. Pina, J. Frenay, V. A. Leão, C. A. Silva, A. D. Souza

231 Selective accumulation of lanthanides using various microorganisms
T. Tsuruta

232 Adsorptive characteristics of mycobacterium phlei on the surfaces of pyrite and galena
D. Z. Wei, Y. B. Shen, Y. M. Zhu

233 Diagnostic leaching for zincite determination in EAF dusts
W. J. Bruckard, M. Easterbrook, J. T. Woodcock, C. M. Calle

234 Studies on the biodissolution of cobaltic pyrite from copper tailings
J. Thomas, S. Subramanian, M. S. R. Ulla, K. T. Louis, C. S. Gundewar

235 Copper recovery by means of a new electrochemical process
N. Saba, D. E. Akretche

236 Multi-bubble production in the air-assisted solvent extraction process
H. M. Tarkan, J. A. Finch

237 Copper isotope variability in acid ferric sulfate dissolution of natural djurleite ($\text{Cu}_{1.94}\text{S}$)
S. E. Young, J. B. Hiskey, J. Ruis

238 Experimental and process analyses in the treatment of manganiferous ore by acid leaching
I. De Michelis, F. Beolchini, A. Lancia, M. Ventura, F. Vegliò, M. Centofanti

239 Treatment of Pyrite concentrates
V. A. Luganov

240 The effect of mixing regimes on the precipitation behaviour of fluorite and sellaite from high ionic strength sulphate solutions
M. Pelsler, J. J. Eksteen, L. Lorenzen, C. Aldrich

241 Use of Primene® JMT as pH controller in the extraction of Co(II) and Ni(II) from chloride solutions using Cynex 272 as an extractant
C. S. Kedari, T. Coll, A. Fortuny, A. Sastre

242 A new approach in ammonium carbonate leaching of the nonsulfide zinc ores (high – SiO_2)
J. Moghaddam, R. S. Mamoory

243 Biological copper extraction from melting furnaces dust of sarcheshmeh copper mine
M. Oliazadeh, M. Massinaie, A. S. Bagheri

244 Characterization of by-products for use as neutralizing agent in bioleaching
M.L. Cunha, Å. Sandström

245 Investigations on the sorting of very fine particles by biocoagulation
H. Z. Kuyumcu, J. Pinka

246 Physical beneficiation and bioleaching of arid region nickel laterites
D. M. Muir, J. A. Johnson

- 247 Dissolution of chalcopyrite concentrate by dichromate ions in sulphuric acid medium
G. Uçar, S. Aydoğan, M. Canbazoğlu
- 248 Recovering of Ni, Co and Cu from Divrigi iron plant tailings by sulphuric acid oxygen pressure leaching
M. Canbazoğlu, A. İnan, S. Aydoğan, Ö. Kaya, Ü. Akdemir
- 249 Copper recovery from the tailings of slag flotation by leaching and roasting
M. Canbazoğlu, İ. Kulaksiz, İ. Tekinalp
- 250 Extraction of metals from copper slags of Küre by roasting and leaching
K.T. Perek, G. Bulut., G. Onal
- 251 Dissolution kinetics of electro-filter magnesite dust waste
H. L. Hoşgün, H. Kurama
- 252 Integrated processing of solutions from underground leaching of uranium ore
A. N. Zagorodnyaya, Z. S. Abisheva, V. V. Bobrova, N. S. Bekturganov
- 253 Cation exchange membrane modified by electroadsorption of polyethyleneimine applied to a cadmium transport reduction
M. Amara, H. Kerdjoudj
- 254 Effect of carbonaceous characteristics on biodegradation and preg-robbing behavior
R. K. Amankwah, W. T. Yen
- 255 Recovering cobalt from waste cathode active materials in lithium ion batteries
K. Yoo, B. Swain, J. Jeong, J. Lee, M. Kim
- 256 Kinetics of Er(III) extraction by BTMPPA using single drop technique
M. F. Bari, B. Saad, S. B. Jamaludin, M. I. Saleh
- 257 Application of solvent extraction for the purification of nickel and cobalt
C. Y. Cheng
- 258 Transport of cadmium by liquid membrane. Application to the system Cd, H₃PO₄-HDEHP/TOPO-(NH₄)₂CO₃
F. H. Sadi, H. Bouchabou
- 259 Electroextraction of molybdenum from solution containing uranium by a process combining ion exchange resin and membranes
A. Lounis
- 260 Participation of bacteria in the weathering processes of silicates
K. Jablonovská, I. Štyriaková
- 261 Biological Leaching of Aluminum from low grade bauxite by some isolated fungi
Y. Ghorbani, M. Oliazadeh, A. Shahvedi, R. Roohi, A. Pirayehgar

262 Bio-leaching of uranium from a low grade ore by acidithiobacillus ferrooxidans
A. Singh, S. Mehta, K. D. Kumar, V. Pandey, B. D. Pandey

263 SEM study on the oxidation patterns of sphalerite, pyrite and galena during chemical and bacterial leaching of a sulphide ore
H. Deveci, T. Ball, I. Alp, T. Uslu, E. Y. Yazıcı

264 Dissolution of lateritic nickel ore in acidic media
F. Arslan, Ö. Özer, K. T. Perek, V. Gurkan, G. Önal

265 Evaluation of copper refining furnace dusts
F. Arslan, Ç. Giray, A. Öztürk, M. O. Kangal, G. Orhan, C. Arslan

266 Çaldağ nickel laterite atmospheric heap leach kinetics
A. Oxley, N. Sirvanci, S. Purkiss

267 Lead recovery from Iranian zinc plant residue using brine leaching method
P. Abdolahi, D. Moradkhani, H. Yozbashizadeh, D. Behnian

268 Nickel recovery from chromite ore
M. M. Amil, M. O. Kangal, A. Güney

13 Precious Metals

269 Diamond-bearing kimberlite processing (Plenary)
V. A. Chanturiya

270 Application of high-power electromagnetic pulses to disintegration of noble metals disseminated mineral complexes
V. A. Chanturiya, I. J. Bunin

271 Electrochemical water treatment technology in diamond-kimberlites processing
V. A. Chanturiya, E. A. Trofimova, G. P. Dvoichenkova, A. T. Vedin, A. V. Zuev, G. M. Bichkova

272 Biotechnological treatment of a refractory ore: Effect on gold leaching processes
F. Beolchini, S. Ubaldini, R. Massidda, F. Vegliò, I. De Michelis, A. Lancia

273 Influence of the chemical composition, texture of gold – bearing pyrite on recovery of pyrite with high gold content
E. L. Chanturiya

274 Biodissolution for recovery of precious metals from electronic scrap
R. Klein, C. Stollberg, J. Markowski, S. Willscher, P. Ay

275 Valorisation of new metals (Pt, Pd, Se, Ge, Ga) from Majdanpek copper ore
M. Grujic, D. Salatic, I. Jurkovic, M. M. Grujic

276 An electrochemical study of gold dissolution in cyanide in the presence of carbonaceous coatings
H. Tan, D. Feng, G. C. Lukey, J. S. J. van Deventer

277 An electrochemical study of the effect of sulphur species on thiosulphate leaching of gold
D. Feng, J. S. J. Deventer

278 Enhancing platinum recovery with the three product cyclone
A. N. Mainza, M. P. Powell, B. Knopjes

279 Influence of operating parameters of centrifugal concentrators on flaky gold recovery
H. Wotruba, A. Schiffers

280 The amenability of Mastra (Turkey) gold ore to centrifugal gravity separation and cyanide leaching
O. Celep, İ. Alp, H. Deveci, T. Yılmaz, M. Vici, C. Duran

281 Gold recovery from different type of ores by gravity separation
A. Gül, O. Kangal, G. Önal

282 Prospects for using non-cyanide solvents in processing of precious metal ores and concentrates
V. V. Lodeischikov, V. Y. Dementyev, O. D. Khmel'nitskaya, T. V. Chikina, O.V. Lanchakova

283 Pyrometallurgical technology for the processing of gold concentrates
S. V. Balikov

284 Gold recovery from cyanide pulps by powdered activated carbons
N. A. Dementyeva, V. K. Chernov

285 Gold Recovery from non-cyanide leach solutions using activated carbon
G. I. Voiloshnikov, I. I. Grigoryeva, N. S. Voiloshnikova

286 Carbonate-synthetic diamond: crystal growth and properties
A. V. Spivak, Y. A. Litvin, A. A. Chiryayev, A. V. Nozhkina

287 Development and application of the technologies for dressing of gold-containing ores in Republic of Bulgaria
I. Baltov

288 The recovery of the PGM from chromites from Turkey
M. M. Amil, M. O. Kangal, A. Güney

14 Dewatering

289 Pelletizing flocculation as a tool to optimize sludge conditioning
W. Walaszek, P. Ay

290 New approaches to dewatering of suspensions in the minerals industry
P. J. Scales, S. P. Usher, B. Gladman, M. J. Rudman

291 Gravity settling in tilting slender upflow and its separators
X. L. Wang, W. B. Zhang, W. Q. Wang, Y. P. Huang, W. B. Fu

292 Improving the consolidation of mineral dispersions via electroosmotic dewatering
J. A. Mensah, J. Ralston

293 Optimizing flocculation and dewatering of clay dispersions via flocculant chemistry, temperature and pulp shear
A. McFarlane, J. A. Mensah, K. Bremmell

294 A model based optimization of pressure filtration process
S. Raha, K. C. Khilar, P. C. Kapur, Pradip

295 Electro-osmotic dewatering of red mud slurry
M.B. Frangiskos, G. N. Anastassakis, A. Z. Frangiskos

296 How to specify (or how not to) mixers for solids suspensions
J. Y. Oldshue

297 Enhancing the efficiency of selective flocculation of fine particles
N. A. A. Khalek, K. A. Selim, A. Yehia, F. El-Shahat

298 Alternative drying of sodium sulfate decahydrate ($\text{Na}_2\text{SO}_4 \cdot 10\text{H}_2\text{O}$) with microwave energy
B. Ozalp, S. Tarhan, A. Seyrankaya, E. Kaya

299 Flocculation in a non-sulfide flotation system
A. V. Kurkov, V. V. Shatalov

15 Simulation, Control & Modeling

300 Simulation of the realmonte (Sicily) mine comminution plant through a scaled-up process from laboratory tests
G. Belardi, F. Desalvo

301 Multiobjective averaging level control
J. Wang, W. Xu, J. Zhou

302 The use of simulation in plant operation
M. J. Fairweather

303 The pH value control system in mine wastewater processing
X. V Ning, Z. Jun-wu

304 JKSimFloat V6.1PLUS : Improving flotation circuit performance and understanding
S. Schwarz, D. J. Alexander, W. J. Whiten, J. P. Franzidis, M. C. Harris

305 Stochastic modeling and control of comminution processes in jaw crushers
T. Tumidajski, T. Gawenda, D. Saramak, Z. Naziemiec

306 Atomistic simulation studies on competitive adsorption of water, methanoic acid and methylamine on pure and hydroxylated quartz
K. H. Rao, T. K. Kundu, K. S. E. Forsberg

307 New methods for on-line monitoring of flotation to optimize the dosage of surface active reagents

J. Kallioinen, S. Luukkanen, P. Parvinen, T. Suhonen, S. Törmälä, T. Viitala, J. Aaltonen

308 The new approach to the hydrocyclone modeling using computational fluid dynamics (CFD) simulation

E. Nowak, Z. Stęgowski, B. Tora

309 An on-line surface vibration monitoring system for ag/sag mills

J. J. Campbell, R. J. Holmes, S. J. Spencer, P. L. Phillips, D. G. Barker, K. J. Davey

310 Modeling the hydrodynamics of minerals processing suspensions

P. T. Slatter

311 Laminar flow models for mineral tailings transport in open channels

R. Haldenwang, P. Slatter

312 Acoustic emission monitoring of dense medium cyclones

S. J. Spencer, Y. Liu, V. Sharp, R. Bruniges

313 Volume split control in hydrocyclone separation

T. Neesse, H. Tiefel, P. Kaniut

314 Heuristic methodology for designing measurement networks for metallurgical accounting

P. A. Bepswa, D. A. Deglon, A. Chakraborty

315 The unified comminution model - a conceptually new model

M. S. Powell

316 Theoretical optimal crushing

E. Hulthen, P. Svedensten, C. M. Eversson

317 Progress in DEM modeling of comminution related unit processes: Screens, Crushers and Mills

P. W. Cleary, R. Morrison, M. Sinnott

318 Comparison of Several liberation models considering preferential breakage at phase boundaries

S. Owada, T. Ohmiya, T. Morikawa, M. Ito

319 Resistance coefficients of mineral tailings flowing in diaphragm control valves

V. G. Fester, P. T. Slatter, D. M. Kazadi, N. S. Ramohlola

320 Statistical experimental designs for Optimization of dolomite separation by reactive flotation

A. A. El-Midany, H. El-Shall, S. Svoronos, B. Moudgil

321 Improving mine mill performance in large metallurgical complexes

O. A. Bascur, R. Linares, L. Yacher

322 Model development for flotation under turbulent flow conditions

H. Do, R. H. Yoon

323 Statistical evaluation of the effect of polyamine type in flotation of a Ni-Cu complex sulphide ore

S. Kelebek, A. Khan, B. Wall, J. Pettingil

324 Simulation of taconite processing plants

S. Ersayin

325 Performance evaluation and simulation studies in a copper smelter slag grinding circuit

T. Doğru, L. Ergün

326 Analysis of breakage and discharge rates in industrial cement grinding mills

Ö. Genç, A. H. Benzer

327 Towards three-phase modeling of a dissolved air flotation tank

V. Emmanouil, E. Skaperdas, T. D. Karapantsios, K. A. Matis

328 Development of a hybrid floatability model

D. Alexander, S. Schwarz, R. Coleman

329 Control of concentration process using on-line mobile X-ray-fluorescent analyzers

V. Morozov, V. Avdokhin, V. Stolyarov, V. Mitin

330 Discrete element modeling of 2D particle motion in permanent magnetic rolls

E. C. Orhan, O. Y. Gulsoy, H. Hassoy

331 A scale-up method for multi-compartment dry ball mills used in cement industry

A. S. Erdem, Ş. L. Ergün, A. H. Benzer

332 Multiphase CFD modeling of hydrocyclone

B. Kalpaklı, İ. Ö. Güler, F. Ş. Kılavuz, Ü. Çolak, L. Ergün, Ö. Gülsoy

333 Optimization possibilities for cement grinding circuits: a study on diaphragms

C. E. Özer, Ş. L. Ergün, A. H. Benzer

16 Process&Plant Design, and Operating Practice

334 Prediction of hydrocyclone performance in iron ore beneficiation using texture classification

E. Donskoi, S. P. Suthers, J. J. Campbell, T. D. Raynlyn, J. M. F. Clout

335 Optimal and robust performance of crushing plants by means of computerised optimisation technology

P. Svedensten, M. Evertsson

336 Conservation of floatability across processes in industrial flotation circuits

K. C. Runge, M. Harris, J. P. Franzidis, E. V. Manlapig

337 Iron ore processing in India—present practice and future trend

S. D. Gupta, K. P. Ghosh, K. K. Lahiry

338 A parameter-variable PI control algorithm for averaging level control problems

J. Wang, W. Xu, J. Zhou

339 Reduction of slime loss at Kiriburu iron ore mines of SAIL India

S. K. Pan, M. P. Srivastava, L. Parthasarathy

340 Production of high-grade iron-ore concentrates in column-type flotation cells at Mikhailovsky GOK

V. M. Avdokhin, S. L. Gubin

341 Multiphase dynamic model for establishing the optimum exploitation life of machinery and equipment in mineral processing plants

S. Vujic, D. Salatic

342 Pilot plants in chemical processing of minerals, bridging the gap between theory and practice

A. K. Ismail, E. A. Abdel Aal, I. A. Ibrahim, H. El-Shall

343 Improving overall concentrator performance with stirred milling

A. Jankovic, W. Valery, K. Maloney, Z. S. Markovic

344 Enhancement of flow dynamics of existing flotation cells

S. Grönstrand, T. Niitti, A. Rinne, J. Turunen

345 Interpreting the individual contribution of reagents on a plant scale

J. A. Sweet, D. J. Bradshaw, P. J. Harris, H. Crafford

346 Long distance hydrotransport systems for bauxite ore

D. J. Hallbom, R. L. Gandhi

347 A method for estimation and analysis of performance indices for concentration circuits

M. Iliev, I. Donchev

348 Multiobjective level control of cascading tanks

J. Wang, W. Xu, D. A. Wilson, J. Zhou

349 Advanced coating technologies for enhanced wear resistance of coal preparation equipment

D. Tao, R. Honaker, B. K. Parekh, C. Zhao, H. Han, C. Blue, N. B. Dahotre, P.G. Engleman

350 Çayeli concentrator zinc circuit: Operational difficulties due to wide variations in zinc head grades

B. Aksani, M. N. Mian

351 The critical comparison of industrial cement grinding circuit flowsheets

H. Ergin, O. Gür

352 Reengineering the Jhamarkotra phosphate concentrator
D. M. R. Sekhar, C. L. Jain

353 Plant audit and process development studies for a commercial flotation plant of limestone deposit from eastern India
C. S. Gundewar, A. T. Sutaone, C. P. Ambesh

354 New and reliable pulsed power equipment for the mineral processing industry
R. Müller-Siebert, H. Feitkenhauer, U. Eggenberger, D. E. Maurer
2009

355 Preconcentration of scheelite ore from "Rudnik" mine
D. S. Radulović, V. Jovanović, B. Ivošević, L. Tešmanović

356 Improvement of the process flow chart of grinding and classification at "Mirskovo" concentrator for processing of ores with high content of schist, dike and sulphur
T. Kitin, M. Iliev, V. Stoilov, G. Strelkov, I. Zlatanov

357 Transportation of bulk solids in pipes
M. Y. Dedegil

358 Çayeli story—expansion from annual design capacity of 650,000 to 1,250,000
M. N. Mian, B. Aksani

17 Sustainability for Mineral Extraction

359 Sustainable indicators for the extraction minerals industries (Plenary)
R. C. Villas Boas

360 Conjugation of economy and ecology as a sphere of ore processing in northern Russia
V. A. Tsukerman, L. V. Ivanova

361 Indian iron ore industry-problems and prospects
T. R. R. Rao

362 Industry taking the initiative in developing high calibre technical staff
C. G. Sweet, J. A. Sweet, M. C. Harris, M. S. Powell, A. S. Lambert, P. Charlesworth, L. M. Knopjes

363 Development of mineral processing technology in Albania
M. Hido, K. Fetahu, P. Zoga, K. Rodi

364 Different perspectives on minerals indicators of sustainability
D. J. Shields, S. V. Šolar

365 Modeling imitation systems for development strategy for beneficiation plants
V. S. Zharov, V. A. Tsukerman

366 Sustainability and mineral processing: The next chapter
R. J. Batterham, R. Fleming

367 Electric pulse processes for processing of mineral raw materials: energy aspect
A. F. Usov, V. A. Tsukerman

18 Waste Treatment and Utilization

368 Stabilisation of sulphide containing flotation wastes in cement matrix

I. V. Filippova, L. O. Filippov, J. Yvon

369 Acid leaching-precipitation-carrier flotation process for the treatment of copper smelter sludge

H. Wang, W. Gong, B. Xiong, X. Bian, W. Chen, X. Zeng

370 Treatment of wastewater containing metal-oxoanion by amorphous iron hydroxide compounds

A. Shibayama, R. Shimokawa, A. Uchida, T. Fujita

371 Beneficiation of rubble from civil demolition work to produce high grade aggregates. Part II: Criteria for grade assessment of the processed materials

E. Gararino, R. Mancini

372 Contribution on the quantification of acid water formation in sulphide-bearing waste from the mining industry

E. Gock, M. Reiß

373 Removing arsenic and recovering iron from acid mine drainage

G. Dodbiba, K. Kang, J. Sadaki, T. Fujita

374 Effect of pyrolysis process on mechanical properties of waste printed circuit board

H. Y. Liu, M. X. Lu, J. Guan, W. G. Dong, Y. R. Zhao, Y. J. Zhao

375 Study on ceramic filter balls loaded with α -Fe₂O₃ and their application in NH₃-N wastewater treatment

J. Fang, W. Gong, H. Yang, Z. Wang, Y. Meng, X. Zhang

376 Engineering aspect for removal of toxic metal ions with hydrotalcite produced from wastes in non-ferrous metal industry

J. Shibata, K. Murayama, H. Yamamoto, S. Matsumoto

377 Chemistry of cyanide in the presence of reduced sulfur sources

J. C. Wilmot, E. B. Milosavljevic, L. Solujic, J. L. Hendrix

378 Effect of CuSO₄ on the surface properties and recycling flotation of copper and lead

L. Bokanyi

379 Electrokinetic processing of cadmium contaminated soils using chelating agents

M. Niinae, K. Aoki

380 Pre-treatment tests for the recovery of exhausted portable batteries

P. Marini, M. C. Zanetti, B. Ruffino

381 Removal of dyes from textile effluents by chemical coagulation

M. Janeczko, S. Gaydardzhiev

382 Biodegradation of PAU, PCB and NEL soil samples from the hazardous waste dump in Pozd'átky (Czech Republic)

P. Fecko, R. Kucerova, E. Pertile, M. Safarova

383 Sorting mixed domestic wastes for producing secondary fuels

H. Z. Kuyumcu, C. Ochsenreiter

384 Recycling of thermal power plant bottom ashes

S. Koca, D. Oz, H. Koca

385 Mechanical activation of solids in processing of minerals and wastes

S. P. Mehrotra, R. Kumar, S. Kumar

386 Shredder practice for metal recycling and potential for reclaim of metal losses

S. Mutz, T. Pretz

387 Kinetics model for electroflotation of oil from wastewaters originated in metal processing industry

V. Milosevic, Z. Bartulovic, N. Canic, N. Magdalinovic

388 Evaluation of a technology for retaining potentially contaminating elements in waste disposal

W. C. Pereira, D. M. Silva, J. O. Carvalho, N. M. B. A. Sobrinho, A. Ravelli Neto, R. C. Villas Boas

389 Selective Cd-Ni separation from aqueous solution by polymer in membrane systems

M. F. Can, F. Arslan, M. S. Çelik

390 Graphite recovery from refractory alumina-graphite tubes

O. Kangal, K. S. E. Forssberg, P. Hammergren

391 Flotation of Iron Ore Processing Plant Tailings

A. A. Sirkeci, A. Gül, G. Bulut, K. T. Perek, M. Özer, F. Burat, F. Arslan, G. Önal

392 Production of secondary raw materials and fuels through the preparation of municipal wastes

B. Csöke, J. Fautl, A. Györfi, L. Alexa, F. Ferencz

393 Evaluation of MgO-C bricks for recovering graphite and magnesite

O. Kangal, K. S. E. Forssberg, P. Hammergren

394 Recycling processing of plastics by flotation

D. Özel, A. Güney, A. S. Alpyıldız, O. Kangal

- 395 Beneficiation of rubble from civil demolition work to produce high grade aggregates. Part I: Tested beneficiation methods
E. GararinO, R. Mancini
- 396 Lead removal from waste water with fly ash
E. T. Tuzcu, M. Ü. Atalay
- 397 Study on treatment of wastewater containing Cr(VI) ions by using organicallyintercalatied montmorillonite composites
G. Fu, W. Gong, W. Chen, X. Bian, B. Xiong
- 398 Bench - Scale study for recycle of waste printed circuit board by pyrolysis
J. Guan, M. Lu, W. Dong, W. Tian
- 399 Adsorption of heavy metal ions from aqueous solution by peat
H. Sutcu, A. Dural, İ. Toroglu
- 400 Recycling of ceramics wastes into the geopolymer construction material
T. Hanzlicek, I. Perna, M. Steinerova, P. Straka
- 401 Gainful utilization of marble processing waste
I. Nishkov, A. Kalaitzis
- 402 On the possibility of utilization of sewage sludge
I. Nishkov, R. Kashikova
- 403 Paste type pipe transport for the safety of tailings facilities
J. Faitli, J. Böhlm, I. Gombkötő, Á. Debreczeni
- 404 Modeling of liberation in recycling passenger vehicles Part 2 – Modeling of liberation to determine fundamental limits and flexibility of recycling
A. V. Schaik, M. A. Reuter
- 405 Magnetic carrier technology for phosphorus removal from wastewater
N. Karapınar
- 406 Upgradation of barite waste to marketable grade concentrate
R. Singh, B. Banerjee, K. K. Bhattacharyya, J. P. Srivastava
- 407 Analysis of produced wastes in steel casting: suggested technical solutions
S. Fiore, M. C. Zanetti, B. Ruffino
- 408 New recycling process of waste porcelain using two step alkali conversion
T. Wajima, Y. Ikegami
- 409 Treatment of wastewater from lead and zinc metallurgical plants
Z. Zlatev, V. Velichkov, N. Mihailov, R. Tsonev
- 410 Beneficiation of copper slag
A. Gül, M. Özer, G. Önal

19 Soil Remediation

411 Biological clean up of acid mine drainage by means of a permeable multibarrier
S. N. Groudev, P. S. Georgiev, I. I. Spasova, M. V. Nicolova, L. Diels

412 Bioremediation in situ of an alkaline soil polluted with radionuclides and heavy metals
S. N. Groudev, I. I. Spasova, P. S. Georgiev, M. V. Nicolova

413 Removal of cadmium ions from Na-feldspar, a soil component, by rhamnolipid biosurfactant
Y. Aşçı, M. Nurbaş, Y. Sağ Açıkel

414 Reclamation of the nitrification of problematic soils by zeolite
K. Mitov, K. Chakalov, T. Popova, E. Filcheva, O. Petrov

415 Detoxification of polluted with heavy metals soils (Alluvial-Meadow, Eutric Fluvisol, FAO; Rendzinas - "KCM Plovdiv", Humus Calcareous, FAO- "OCK Kardzhali")
K. Chakalov, B. Blazhev, K. Mitov, T. Popova, T. Blazheva, P. Blazheva

416 Removal of cadmium ions from a Soil component quartz by a rhamnolipid biosurfactant
Y. Aşçı, M. Nurbaş, Y. Sağ Açıkel

20 Environmental

417 Emerging environmental and nanoparticulate challenges (Plenary)
S. K. Kawatra

418 Examination of noise emission of a centrifugal crusher
G. Ladányi

419 Development of a decontamination process for radioactively contaminated and activated concrete from dismantled nuclear power plants by activity separation
S. Diedenhofen, H. Wotruba, L. Weitkämper, J. Meier Kortwing

420 Passivation of acid mine tailings
M. Mishra, S. Chen, M. C. Fuerstenau

421 Pressure Filtration: environmentally friendly alternative for jarosite disposal
A. M. Celeda, J. M. Pignani, G. Sbarbao

422 Modern restoration methods on localities of the north Bohemian brown coal Basin
M. Rehor, M. Safarova, T. Lang, V. Ondracek, H. Lorencová

423 Heavy metal removal from wastewater by precipitation and reverse osmosis
M. Panayotova, V. Panayotov

424 Technological alternatives for the treatment of effluents in desert zone copper mining: the Northern Chile case

H. Schneider, J. L. Cortina, M. A. Bosse

425 Bioremediation of refuse dumps generated from copper open pit mine: Pot experiment

P. Blazheva, K. Mitov, T. Blazheva, K. Chakalov, T. Popova

426 Selective magnetizing flash roasting of carbonaceous iron ores – mineral products for steel production and environmental protection

A. Böhm, M. Böhm, A. Kogelbauer

427 The present day challenges towards the mineral processing

N. G. Davcheva-Ilcheva, L. S. Ilchev

428 Active and passive gangue in mineral processing, disposal and economics

J. J. Cilliers

429 Factors affecting decomposition of cyanide by hydrogen peroxide

E. Y. Yazıcı, H. Deveci, İ. Alp, T. Uslu, O. Celep

430 Minimization of environmental impacts in gold mining

Ö. Karahan, N. Ö.Yağcı, D. Orhon

431 Achievement of environmental compliance at Ovacık gold mine.

İ. Sivrioğlu, M. Tekol, V. Gökdere

432 The forecast of a possible accident in the “Veliki Krivelj” tailings dump on the basis of a mathematical model of the real accident in the tailings dump “Valja Fundata”, Majdanpek

R. Lekovski, M. Ljubojev, M. Avdic

433 Diminish N₂O emission from heavy metal contaminated humus calcareous soil from Kardzhali region by zeolite treatment

K. Chakalov, T. Popova, K. Mitov, E. Filcheva

21 Miscellaneous

434 Macromolecular mass transfer a new approach for mining process unit operations

A. P. Yovanovic

435 Effect of pH and hydration on the normal and lateral interaction forces between alumina surfaces

M. Polat, K. Sato, T. Nagaoka, K. Watari

436 Solution of the non-linear Poisson Boltzmann theory for the general case of dissimilar double layers

M. Polat

437 Use of ion flotation to remove copper from waste waters

D. Erdoğan, H. Polat, Ü. İpekoğlu

438 Sustainable mining and environment: a case example

K. S. Koldas, A. Akcil

439 Benefication of low grade colemanite concentrates by scrubbing

A. Mergen, T. Ergül, H. Akçin, İ. Polat, S. Türköz, O. Yılmaz

440 Enrichment of borax by calcination

Y. Yalçinoğlu, A. Mergen, T. Uludağ, B. Şentürk, H. Akçin, T. Ergül, İ. Kayandan, C. Demirbağ, O. Yılmaz

441 The New washing plant for TKİ's Soma region coals

S. Anaç, K. Mucuk, V. Doğan, Ç. Göyenc, T. Sağlam

442 Studies to design a new washing plant for TKİ's Soma region coals

S. Anaç, K. Mucuk, E. Ersun, L. Ergün, Ö. Gülsoy

443 Simulation aided design of Soma-Deniş coal washing plant and comparison with the actual performance

S. Anaç, E. Ersun, H. Benzer, M. Can

444 Recovery of recycled aggregates from waste concrete by heating and grinding

H. C. Cho, G. C. Han, N. I. Um, K. S. You, J. W. Ahn

445 Removal of heavy metals from municipal solid waste incineration bottom ash by physical separation

N. I. Um, K. S. You, I. C. Lee, J. W. Ahn, G. C. Han, H. C. Cho

446 Synthesis of precipitated calcium carbonate following grasp peculiarities of calcination and hydration

J. W. Ahn, W. K. Park, K. S. You, J. H. Kim, H. Kim

447 Stabilization/solidification of heavy metals derived from by-product containing Al-rich during the synthesis of calcium sulphoaluminate phase

J. W. Ahn, K. S. You, K. H. Cho, D. Y. Han

448 Control of particle size and aspect ratio of aragonite precipitated calcium carbonate following nucleation rate on carbonation process

J. W. Ahn, S. J. Ko, W. K. Park, J. H. Kim, C. Han

449 Characteristics of precipitated calcium carbonate synthesized in solution process

J. H. Kim, H. S. Park, J. W. Ahn, C. H. Park

450 Procedures for 3D Micro CT Analysis in Packed Particle Beds

J. D. Miller, C. L. Lin, A. R. Videla

451 Gas formation at the radiation-chemical decomposition of Turkish lignites

I. I. Mustafaev, F. Çiçek

452 The world modern mineral processing trends in the reconstruction of Sasa lead-zinc concentrator – M. Kamenica, R. of Macedonia
B. Fidancev, M. Aleksandrov, B. Pavlovski, B. Krstev

453 The novel ash transport and disposal technology at Serbian coal fired power plants
N. Kostovic, I. Simovic, D. Drazovic, M. Kostovic, P. Stjepanovic, D. Vljajic

452 The world modern mineral processing trends in the reconstruction of Sasa lead-zinc concentrator – M. Kamenica, R. of Macedonia
B. Fidancev, M. Aleksandrov, B. Pavlovski, B. Krstev