

Plenary Addresses

- A Continuous Quest for Sustainability —
R Castello Branco
- Sensing, Data Fusion and Automation for
Precision Mining — **H Durrant-Whyte**
- Interfacial Chemistry in Flotation of
Diasporic Bauxite — **Y Hu, W Sun, W Liu**
- Title to be advised — **P Korhonen**
- Real-Time Simulation in Process Engineering
– Dream or Reality? — **J Li**
- Innovation, Energy Efficiency and
Sustainability in Mineral Processing —
J Marsden
- Recent Metallurgical Developments and
their Impact on Minerals Project Execution
— **Z Meka**
- Industrial Biotechnology and Ecogenomics
in the Mining Industry — **L Van Der Wielen,
M Van Loosdrecht, J Huisman**
- Low Energy Zero Gas Emission Metals
Directly from Ore using Geosequestration —
A Minerals Processing Vision for the Future
— **N Warner**

Keynote Addresses

- Water Recycling and Frugal Water Use —
R Dunne
- Bio-Mineral Processing – Its Potential to
Revolutionise the Industry — **B Follink**
- Innovation – From Ideas to Implementation
— **C Goodes**
- Concentration of Igneous Phosphate Ores
via Froth Flotation – Challenges and
Developments — **L S Leal Filho, M Martins,
D G Horta**
- Sustainable Development at Vale Australia
– The Beginning of a New Future —
B Maynard
- Characterisation, Analysis and Simulation
of Multiphase Particulate Systems Using
High Resolution X-Ray Micro Tomography
(HRXMT) — **J D Miller**
- Chemical Aspects of Sustainable Mineral
Processing – Framework for Breakthrough
Research and Successful Technology
Transfer — **D R Nagaraj**
- Nanoscience in Aqueous Processing —
K Osseo-Asare
- Importance in Mineral Processing
Technology for Establishing a Sustainable
Society with an Environmentally-Sound
Material Cycle — **S Owada**
- The Elephant in the Mill — **J D Pease**
- Maximising Value Add from Collaborative
Research — **N Plint**
- Automated Mineralogical Techniques –
A Drive Towards Plant Optimisation —
R P Schouwstra
- Challenges on the Front End Activities of
the Uranium Cycle — **A-P Serond**

Technology Based Innovation – The Next
Decade — **R Shaw**

Project Sustainability Assessment –
Matching Method to Enterprise Size —
D Shields

Digital Simulation of Particulate Processes
— **R A Williams, X Jia**

Enhance Fine Particle Flotation by
Hydrodynamic Cavitation — **Z Xu,
J Masliyah**

Agglomeration

Adsorption Behaviours of Humic
Substances onto Iron Ore Particle Surface
— **G Han, Y Zhang, Y Huang, G Li, T Jiang**

Possibilities and Working of the Specific
Agglomeration of Fibrous Materials and
Residues — **S Hildebrandt, P Ay,
H-J Gusovius, C Glaser, C Stollberg**

Study on Iron Ore Sintering with High
proportion of Specularite Concentrates—
T Jiang, Y Zhang, G Li, X Fan

Agglomeration for Copper Heap Leaching
— **K A Lewandowski, T C Eisele,
S K Kawatra**

Agglomeration Drum Selection and Design
— **G Miller**

Comparison of Grinding and Liberation
Processes for Stalky Biomass Materials as a
Prerequisite for Production of Energy Pellets
with High Calorific Value — **S Narra,
C Glaser, H J Gusovius, C Stollberg, P Ay**

Improving Pelletisation of Pyrite Cinder by
High Pressure Roller Grinding — **W Yu,
D Q Zhu, Q H Li, J Pan**

Aqueous Processing

Kinetic Study on the Leaching of
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Sulfuric Acid — **M Arabi, F Rashchi,
E Vahidi, N Mostoufi**

Rheological Behaviour of Clay-Rich
Gangue Mineral Dispersions During
Hydrometallurgical Treatment —
J Addai-Mensah

Stripping of Fe (III) from D2EHPA Using
Different Reagents — **M Akhlaghi,
F Rashchi, E Vahidi**

Recovery of Precious Metals from Chloride
Solution by Magnetite — **R D Alorro,
N Hiroyoshi, M Ito, M Tsunekawa**

Purification of Nickel and Cobalt from
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Exchange Resins — **T Berni, F Mendes,
A Pereira**

Separation of Nickel and Cobalt from
Manganese, Magnesium and Calcium by
Synergistic Solvent Extraction – From Batch
Tests to Pilot Plant Operation — **C Y Cheng,
G Boddy, W Zhang, M Godfrey,
K R Barnard, D J Robinson, Y Pranolo, Z Zhu,
L Zeng, W Wang, N L Turner, T N Hill**

Production of Low Ash Clean Coal from
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Leaching at Elevated Temperature —
**P S Dash, S S Kumar, P K Banerjee,
S Ganguly**

High Pressure Sulfuric Acid/Oxygen
Leaching of Platinum Group Metals
Bearing Ni-Cu Mattes — **C Dorfling,
G Akdogan, S M Bradshaw, J J Eksteen**

Development of Boleo Process Flow Sheet
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Circuit for Cobalt and Zinc Recovery —
**D Dreisinger, C Y Cheng, W Zhang,
Y Pranolo**

Thermodynamics of Non-Cyanide Gold
Solvents — **A S Gudkov, I A Zhuchkov,
G G Mineev**

Application of Agitated Leaching for Iron
Removal from Silica Using Sulfuric and
Hydrochloric Acid — **H Haghi, A Ghadyani,
M Faramarzi**

Modelling of Synergistic Effect of Cyanex
302 and D2EHPA in Zinc Solvent Extraction
— **T Hosseini, M Daneshpayeh, N Mostoufi,
F Rashchi**

Pilot-Plant Testing of Ammoniacal-
Cyanidation for Gold Recovery from
Copper Gold-Bearing Ore —
**O D Khmel'nitskaya, G I Voiloshnikov,
V M Lodeischikov**

Treatment of Gold-Bearing Oxide High-
Clayish Ores — **A Y Koblov, A F Raschenko,
S G Gudkov**

Beneficiation of Iron Ore – Washing with
Surface-Active Agent — **S Mahiuddin,
P Sengupta**

An Investigation on the Effects of Chrysotile
Particle Shape and Anisotropic Properties
on the Rheology of Chrysotile Suspensions
— **B Nalovu, E Burdukova, M Becker,
D A Deglon, J-P Franzidis, J S Laskowski**

Demonstration of Solid-Liquid Separations
Using Recycled Supernatant that Contains
Temperature Responsive Polymer —
J-P O'Shea, G G Qiao, G V Franks

Removal of As(III) and As(V) in Aqueous
Solution — **J Shibata, N Murayama**

Additional Attractive Force Between
Alumina Particles Due to Low Solubility of
Dicarboxylic Acids — **E-J Teh, Y-K Leong,
Y Liu, V S J Craig, R B Walsh, S C Howard,
T Becker**

Effect of Anionic Surfactant on Silica
Particle Attachment at the Oil-Water
Interface — **C Vashisth, C P Whitby,
D Fornasiero, J Ralston**

Process Options for Difficult Arid-Region
Nickel Laterites — **H R Watling, G K Das,
A D Elliot, J Li, R G McDonald, D J Robinson**

Bioprocessing

Electrochemical Bioleaching of Sarcheshmeh Chalcocopyrite Concentrate in a Stirred Tank Reactor — *A Ahmadi, M Ranjbar, M Schaffie, Z Manafi*

Biosorption of Cr(VI), Pb(II) and Zn(II) from Aqueous Solutions by Immobilised Phanerochaete Chrysosporium Biomass in a Fixed-Bed Column — *H Amirafshar, R Marandi*

On the Kinetics and Equilibrium Models for Biosorption of Ni(II) onto a Gram-Positive Bacteria Strain, *Rhodococcus Opacus*, for Environmental Applications — *J E B Cayllahua, M L Torem*

Effect of Aeration on Column Bioleaching of a Low-Grade Arsenic-Bearing Copper Sulfide Ore and Microbial Population Dynamics — *B Chen, B Wu, X Liu, J Wen, G Yao*

Bioleaching of Weathered Saprolite – Heavy Metal Adaptation Mechanisms of *Aspergillus foetidus* — *W Ge, M Saidan, M Valix*

Development of Cost-Efficient Environmentally Sound Technology for Enhanced Gold Recovery from Rebellious Gold-Containing Raw Materials — *B K Kenzhaliyev, A N Berkinbaeva*

Bio-Oxidation of Arsenic and Stibium Bearing Gold Ores — *Q Li, T Jiang, G-Z Qiu, Y-B Yan, G-H Li*

Bio-Oxidation Pretreatment of a Refractory Sulfur Concentrate Including Gold — *M Liu, B Wu, J K Wen, Y S Song*

Pyrite Bioleaching and Slag Neutralisation – Two Treatments in a Single Process for Recovering Valuable Metals from Both Materials — *D Morin, P Spolaore, P d'Hugues, A Teczan, Ö Mafa*

Column Bioleaching of a Low-Grade Nickel-Bearing Sulfide Ore — *W Qin, X Ji, S Zhen*

Several Approaches to Enhance the Bioleaching of Enargite — *K Sasaki, K Takatsugi, T Hirajima*

Bioremediation of Acid Mine Water Using Fly Ash and *Desulfotomaculum nigrificans* — *S Subramanian, E Chockalingam, J J Braun*

Bacterial Leaching of Complex Polymetallic Sulfide Ore — *J Wang, W Qin, J Chen, C Yang, S Zhen, T Zhuang, S Nai, Y Zhang, L Li, X Fu, G Qiu*

Electrochemical Behaviour of Massive Chalcocopyrite Bioleached Electrodes in Presence of *Acidithiobacillus Ferrooxidans* and *Acidithiobacillus Caldus* — *J Wang, W Qin, S Zhen, T Zhuang, Y Zhang, K Liu, F Jiao, L Ren, C Shao, P Ren, G Qiu*

Kinetic Dependence of Refractory Gold Sulfide Biooxidation Using Different Microorganism Association — *P A Zaulochny, G V Sedelnikova, E E Savari, D H Kim, T A Pivovarova*

Extraction and Characterisation of Extracellular Polymeric Substances from the Mineral Surface During Bioleaching of Chalcocopyrite Concentrate — *W-M Zeng, G Qiu, M Chen*

Comminution and Physical Separation

Geological Parameters Controlling the Improvement of Manufactured Sand Using Vertical Shaft Impact Crushers Instead of Cone Crushers — *U Åkesson, B O Tjell*

Cyclone Process for Heavy Metals Decontamination of Sediments — *G Alfano, M Surracco, P Valera*

Application of the Anaconda Simplified Work Index for Multiple Test Sizes — *V K Alves, C L Schneider*

Maghemite – A Source of Heavy Medium for Coal Washeries — *A I Arol, G Ozbayoglu, S Anac, M Bulut*

Separation of Minerals Using Electrical Fields — *G R Ballantyne, P N Holtham*

Energy Savings and Technology Comparison Using Small Grinding Media — *M Brissette*

Distribution of Settling Velocity of Irregular Particles and its Effect on Jig Separation Efficiency — *M Brozek, A Surowiak*

Recovery of Fine Gold Particles from Philippine Gold Deposits by Enhanced Gravity Concentration and Flotation — *B M H Buenaventura, H D Mendoza*

Investigation of Multicomponent Semi-Autogenous Grinding — *M P Bueno, F Shi, T Kojovic, M S Powell*

The Mineral and Organic Nanoformations on Natural Diamonds – Condition of Formation and Methods of Removal — *V A Chanturiya, E A Trofimova, V I Bogachev, G P Dvoichenkova*

An Innovative Process for Comprehensive Utilisation of Clay-Vanadium Ores — *X Q Chen, J Z Yang, Y L Mao, X W Liao, H M Liu, W L Xiong*

Grinding and Flowing Investigation on Dry Stirred Ball Milling in Order to Determine the Influence of Grinding Aids — *B Csoke, A Rácz, G Mucsi*

Characterisation and Processing of Electronic Waste for the Recovery of Metal Values — *A Das, S Chatterjee, S P Mehrotra*

Separation of Iron Particles from Banded Haematite Quartzite (BHQ) Ore by Selective Magnetic Coating — *B Das, B K Mishra, S Prakash, P S R Reddy, R Sakthivel, S K Das*

The Operation of the LAROX PF-50 Pressure Filter at 'Ellatzite-Med' Flotation Plant, Bulgaria — *K Dedelyanova, V Mehandzhiski, I Kunchev, T Voutov*

Development and Validation of Ore Characterisation Test and its Use in Variability Campaigns of Comminution Circuits — *H Delboni Jr, A C Chieregati, M G Bergerman*

Removal of Arsenic in Fluorite Ore by Simultaneous Grinding-Leaching with NaHS — *G Dodbiba, H S Park, K Higashino, S Matsuo, K Okaya, J Sadaki, T Fujita*

Laboratory Scale Magnetohydrostatic Separator for High Resolution Density Analysis of Plastic and Other Wastes — *J Fajtli, S Nagy, G Antal, B Csoke, P Lukacs*

Beneficiation of Nickel Lateritic Ore from Montes Claros de Goiás, Brazil — *B Foggiaatto, B Y Tomaselli, H Delboni Jr, D David*

CrusherMapper™ – A New Tool for Crusher Condition Monitoring — *J Franke*

Fine Gravity Separation in the Reflux Classifier, Exploiting a High Shear Rate, Laminar Flow Mechanism — *K P Galvin, K Walton, J Zhou*

Evaluation of Grinding Medium Wear in Stirred Mills — *M Gao, D Obeng, F Burgess*

Influence of Jaw Crusher Application on Irregular Grains Content in Aggregates Obtained from Coal-Mining Waste — *T Gawenda, Z Naziemiec, D Saramak*

Study on Basic Theory of the Grain Settlement in Fluidised Bed — *X-H Gui, J-T Liu, Y-F Li, Y-J Cao, C Liu, G-S Li*

Reduction of Iron Content from Silica by Gravitational Processes — *H Haghi, M Noaparast, A Shabani, M Farokhrouz, A Ghadyani, A Ghorbani, M Shevrini, M Tayebi*

Effects of DA as a Grinding Aid on Selective Grinding of Low-Grade Bauxite — *Y X Han, Y M Zhu, Z H Wang, Y L Tian*

Enhancement of Energy Efficiency in Fine Grinding of Copper Sulfide Minerals Using a Pilot-Scale Stirred Media Mill – IsaMill — *M He, R Morrison, K Barns*

Comparing Energy Efficiency of Multi-Pass High Pressure Grinding Rolls (HPGR) Circuits — *M Hilden, S P Suthers*

Two Variable Real-Time Algorithm for Cone Crusher Control — *E Hultthén, C M Evertsson*

Upgrading of Indonesia's Bauxite by Washing Method — *H Husaini, S Cahyono*

Particle Mechanics and the Design of Cyclone Tribochargers — *P M Ireland, G J Jameson*

Advanced Jig Separation of Shredded Plastics — *M Ito, M Akatsuka, E Ishida, K Horii, N Hiroyoshi, M Tsunekawa*

Circulating Air Classification of Manufactured Sand — *R Johansson, C M Evertsson*

Smarter Gravity Separation Using the Kelsey Centrifugal Jig — *T Jones, A Foster*

The Autogenous Fine Grinding Kelsey Axial Displacement 'KAD' Mill — *J R Kelly, A Foster, C Kelsey, T Tomicki*

Test Work on High Throughput Diamond Tracer Recovery from Alluvial Recovery Tailings with a Containerised Optical Sorter Under Real Production Conditions — *C Kleine, H Wotruba*

Development of New Comminution Testing Methodologies for Geometallurgical Mapping of Ore Hardness and Throughput — *T Kojovic, S Michaux, S Walters*

Validation of the JKRC Rotary Breakage Tester (JKRBT) Ore Breakage Characterisation Device — *T Kojovic, F Shi, S Larbi-Bram, E Manlapig*

Simulation and Analysis of Media Behaviour in the Tower Mill by Discrete Element Method for Estimating the Power Draw and Spatial Distribution of Grinding Process — *M H Kouklan, S Niffa*

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- Validation and Simulation of Optimised Compressive Crushing — *E Lee, P Svedensten, C M Evertsson*
- Study on Reasonable Mineral Processing Flow Sheet of Yunfu Low-Grade Pyrite Ores — *H-W Li, Z Hu, H Zhang, H-X Wu*
- Separating Particles by Horizontal Deflection in a Paramagnetic Fluid — *S Liu, Y Chen, N Miles, R Hill, L Eaves*
- A Simulation Study on Two-Stage Grinding with High-Pressure Roller Mills — *J Y Liu, K H Luo*
- The Small Pebble Process for Reducing Ball and Power Consumption in Secondary Grinding — *B K Loveday*
- Study on Ball Mill Grinding of a Cassiterite-Polymetallic Sulfide Ore — *S J Ma, W Mo, G F Wang, X J Su, J L Yang, Z W Shi*
- The Effect of Grinding Aids on Laboratory Grinding of a Cassiterite-Polymetallic Sulfide Ore — *S J Ma, J L Yang, W Mo, G F Wang, X J Su, C Yuan*
- Triboelectric Charge and Separation Characteristics of Industrial Minerals — *H R Manouchehri*
- Silica-Kaolin Sand Wet Sizing — *M Marinov, A Valchev, I Nishkov, I Grigorova*
- Approximation of Surface Area of Fines in Blast Induced Fragmentation — *S Michaux, N Djordjevic*
- Importance of Strain to Fragment Strength in Blasting Induced Pre-Conditioning — *S Michaux, R Hocking*
- Development of Grindability Tests Based on Direct Measurement of Energy — *G Mucsi, B Csoke*
- Triboelectric Separation – Beneficiation of Coal — *K Nicholson, P M Ireland, E J Wanless, G J Jameson*
- Investigation of the Classification Operation in a Coal Pulverising Vertical Spindle Mill — *C E Özer, W J Whiten, F Shi, T Dixon*
- The Effect of Using Different Comminution Procedures on the Flotation of Platinum Group Minerals — *N A Palm, N J Shackleton, V Malysiak, C T O'Connor*
- Trends in Test Filtration to Respond to Decreasing Sample Size — *J Palmer, D Safonov, A Häkkinen, B Ekberg, A Kraslawski*
- New Developments in Spirals and Spiral Plant Operations — *M Palmer, C Vadeikis*
- Analysis of Electrostatic Separation for Rutile Cleaning Duty Using a Plate Electrode Assisted High Tension Roll Separator — *R A Pax, H Hutcheson*
- Eco-Efficient Gravity Separation Solutions in India — *C A Pena*
- Building the Unified Comminution Model — *M S Powell, N S Weerasekara*
- Study on Preparation and Gel Performance of High Purity Montmorillonite — *J Qiu, X-J Lu, G-F Wang, L-J Sun*
- Study on Desulfurisation and Deashing for Medium-High Sulfur Coal Using Shaking Table — *Y Q Qiu, L Q Sun, Q Zhang, Z H Liu*
- Haematite Recovery from a Tailings Stream — *K Quast, B Quast*
- Efficacy of Enhanced Gravity Separator in Processing Indian Iron Ore Slime — *R K Rath, S Mohanty, M K Mohanta, R Singh, K K Bhattacharyya*
- A Robust Chemically Enhanced Electrostatic Separation Technology — *S A Ravishankar, H Kolla, R Raitani*
- Near-Infrared Spectroscopy Sorting in the Upgrading and Processing of Skorpiön Non-Sulfide Zinc Ore — *M Robben, M Buxton, W Dalmijn, H Wotruba, D Balthasar*
- Grinding Mill Operation and Maintenance – Central to Asset Management — *J Russell*
- TowerMill – Advantages in Wet Grinding Applications — *J Sachweh*
- Rutile Beach Sand from Hard Rock — *K Sandvik, P Norkyn, T Malvik*
- A Loss of Strength of Gold Sulfide Concentrate Before Grinding and Cyanidation Using Magnetic Impulse Treatment — *G V Sedelnikova, E A Koshel, P P Ananev, S A Goncharov*
- Iron Ore – Mineral Processing Overview — *I Sherrell, M Nevens*
- Development of Process for Beneficiation of Low-Grade Iron Ore Samples from Orissa, India — *R Singh, R K Rath, B Nayak, K K Bhattacharyya*
- Use of Impact Crushing for the Enrichment of Low-Grade Colemanite Concentrates — *A A Sirkeci, A Gul, G Bulut, M Savas, F Burat,*
- Effects of High Pressure Grinding Rolls on Platinum-Bearing Ores and the Flotation Response as Compared to the Conventional Ball Mill — *N Solomon, A N Mainza, M Becker, J Petersen, V Ross, J P Franzidis*
- SAG Mill Grinding Design Versus Geometallurgy – Getting it Right for Competent Ores — *J Starkey, P Scinto*
- Crushing Plant Process Optimisation — *P Svedensten*
- The Research on Application of New Technologies in High Gradient Magnetic Separator with Horizontal Magnetic Line — *Y Tang, J Zhang, J Wernham*
- A Mechanistic Model of Batch Grinding in Ball Mills — *L M Tavares, R M Carvalho*
- Comparative Studies on Balls Versus Spheroidal Tetrahedrons Working Media to Ore Grinding in an Industrial Drum Mill — *L Tzotzorkov, T Penchev, P Bodurov, L Kuzev*
- Flow Sheet Development of Three Geographically Distinct Chromium-Bearing Ores — *C Vadeikis, M Germain, E Raffailac*
- High Pressure Grinding Roll Scale-Up and Experiences — *F P van der Meer*
- Implementation of an Energy Efficient Dry Grinding Technology into an Anglo American Zinc Beneficiation Process — *W van Drunick, C Gerold, N Palm*
- The Physical Basis of Non-Random Breakage in an Iron-Oxide Ore — *T G Vizcarra, E M Wightman, N W Johnson, E V Manlapig*
- Study on Mineral Processing Technology for a Refractory Iron Ore — *Z H Wang, F J Yu, L B Zhao*
- Exploring the Breakage Environment in Mills with Discrete Element Methods — *N S Weerasekara, M S Powell*
- Grinding and Beneficiation Characteristics of a Low-Grade Haematite Ore — *D Wei, S Gao, W Liu, Z Guan, B Cui, C Han, P Fang*
- Fragmentation Characteristics of Iron Ores from Anshan, China — *D Wei, C Han, W Liu, S Gao, Z Guan,*
- Implementation of Fine-Screening in Preparation of KGHM PM SA Sandstone-Carbonate Copper Ore for Flotation — *A Wieniewski, B Skorupska, Z Smieszek, P Brodzik, A Konieczny*
- Development of a New Dry Density Separator for Fine-Grained Materials — *H Wotruba, L Weitkaemper, M Steinberg*
- Study on Dynamic Characteristics of Inertia Cone Crusher and Its Application — *X O Xia, B Chen*
- A New Technology of Applying SLon-2500 Magnetic Separator to Recover Iron Concentrate from Abandoned Tails — *D H Xiong*
- Spreadsheet Based Modelling of Liner Wear Impact on Charge Motion in Tumbling Mills — *M Yahyaee, S Banisi*
- Reason Analysis of Impurity Containing and Technology Discussion of Quality Improvement for Low-Quality Iron-Concentrate — *L X Yu, G Z Qiu, H D Wang, Y H Tang*
- Fine Coal Evaluation by Gravity Methods — *A E Yüce, A Güney, G Önal, O Kangal, O Kökkiliç, M Özer, M Özdingis*
- Triboelectrostatic Producing Ultra-Clean Coal — *X-X Zhang, D-Y Duan, B Tian, J-S Wang, F Deng, S Zhang*
- Study on Mineral Processing for a Cassiterite Ore in Southwest China — *H Zhang, X-Y Qiu, X Tong, Z Hu, H-W Li, Z-Q Chen*
- Research and Application of Vertical Screw Stirred Mill — *G Zhang, X Zhao, Z Li, S Xiao, L Huang*
- Development and Application of CRIMM High-Gradient Permanent Magnetic Separator — *Y Zhou*

Extractive Metallurgy

- Recovery of Rhenium from Mineral Raw Materials of Kazakhstan — *Z S Abisheva, A N Zagorodnyaya, N S Bekturganov*
- Pressure Oxidation of Sulfide Gold-Bearing Concentrates with Double Refractoriness — *A V Bogorodsky, Y Y Emelianov, S V Balikov, N V Kopylova*
- Comparison of Industrial Cyanide Destruction Processes — *P L Breuer, C A Sutcliffe, R L Meakin*

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Roasting of a Copper Sulfite Concentrate — *E A Brocchi, R F M de Souza, A L T Brandão, C A R Queiróz, J B de Campos*

The Application of Roasting Pretreatment for Antimonial Refractory Gold and Silver Ores — *O Celep, I Alp, H Deveci*

A Study of Extracting Vanadium from Stone Coal Using Cyclic Oxidation — *T Chen, Y Zhang, T Liu, J Huang*

Carbothermal Reduction of Ilmenite Concentrates and Synthetic Rutile in Different Gas Atmospheres — *M A R Dewan, G Zhang, O Ostrovski*

The Dynamics and Thermodynamics of Adsorbing Lithium of Ion Sieve Preparing Polymetallic Nodules — *L Feng, X Jiang, S Wang, Y Fan, K Jiang, H Wang, L Zhao*

Research on Reduction-Magnetic Separation of Bayan Obo Ore — *P Gao, Y-X Han, Y-J Li, H-F Wu*

Study on Selective Reduction and Magnetic Separation of Low-Grade Nickel Laterite Ore to Produce High Nickel Concentrate — *Q Li, Y Cui, D Zhu, J Zhu, J Pan, H Zhang, G Zheng*

Kinetic Behaviour of Solid/Solid Separation of Ultrafine Particles in Aqueous Suspension — *H D Mendoza*

Effect of Activated Carbon on the Leaching of Cobalt-Rich Ferromanganese Crust in Sulfuric Acid — *H Nakazawa, W Hareyama, T Okura*

The Development of a Non-Roasting Technology for Polymetallic Gold and Silver-Bearing Sulfide Concentrates Treatment — *Y L Nikolaev, S G Rybkin*

Carbothermal Reduction and Nitridation of Ilmenite Concentrates and Chlorination of the Reduced Samples — *S A Rezan, A Adipuri, G Zhang, O Ostrovski*

Recovery Process of Carbon Dioxide with Metal Oxides and Metal Hydroxides — *J Shibata, N Murayama*

Removal of Arsenic in Enargite from Copper Ores by Flotation and Leaching in NaHS Media — *A Shibayama, W Tongcamp, K Haga, Y Takasaki*

Characterisation of Manganese Ores — *B Sørensen, S Gaal, E Ringdalen, M Tangstad, O Ostrovski*

Recovery of Vanadium from Stone Coal Through an Environmentally Friendly Acid Leaching Technology — *X Tong, F Rao, X Luo, G Ye*

Roles of Mineral Impurities and Sulfur in the Leaching Behaviour of Pre-Reduced Ilmenite Ores — *M Valix, C Z Chen, W S Eu, W H Cheung*

Thermal Processing of Petroleum Fly Ash for Vanadium Recovery — *Y Xiao, H Jalkanen, Y Yang, C R Mambote, R Boom*

Upgrading of Superfine Low-Grade Haematite Ores by Reverse Flotation Direct Reduction Low Intensity Magnetic Separation (RFDRLM) Process — *Y Z Xiao, D Q Zhu, T J Chun, B Z Chen, J Pan*

Microfluidic Solvent Extraction for Mineral Processing of Copper Leach Solutions — *J Zhou, C Priest, R Sedev, J Ralston, A Aota, K Mawatari, T Kitamori*

Study on Causes of Interfacial Emulsification in Solvent Extraction of Copper — *G Y Zhou, J K Wen, R M Ruan, G C Yao*

Upgrading and Removing Phosphorus from Low-Grade and High Phosphorus Containing Iron Ores — *D Q Zhu, Y Z Xiao, T J Chun, B Z Chen, J Pan*

Preparation of MgO Nano-Particles with Magnetite — *Y M Zhu, Y X Han, X Y Wang*

Flotation

Au-Ag Recovery from Complex Ore by Flotation — *N Aarkan, G Önal, G Bulut, A Gül*

Recovery Efficiency Study on Ilesha Placer Gold Ore by Flotation Using Locally Sourced Frothers and Collectors — *J A Ajayi, S A Awe*

An Integrated Study of Bubble-Particle Attachment Mechanisms — *B Albijanic, M A Hampton, P T Nguyen, O Ozdemir, D J Bradshaw, A V Nguyen*

An Investigation into the Flotation Behaviour of Pyrrhotite Present in the Merensky Orebody — *S A Allison, C T O'Connor*

Temperature Sensitive Polymers as Efficient and Selective Flotation Collectors — *E Burdukova, D J Bradshaw, G V Franks*

The Cyclonic Separation Effect of Metallic Ores in Cyclonic-Static Micro-bubble Flotation Column — *Y-J Cao, Z-L Ma, X-B Li, J-T Liu, Y-T Wang, H-J Zhang*

Treatment of the Siirt-Madenköy Ores by Flotation — *A Ceylan, G Bulut*

Flotation in Minerals Industry – Some Observations and Novel Technique for Optimisation of Pb-Zn Flotation Circuits with Forestalling 'Sanding-Up' — *J Chandra, J Mishra, M S Negi*

The Effect of High Power Nanosecond Electromagnetic Pulses on Selectivity of Pyrite from Arsenopyrite — *V Chanturiya, I Filippova, L Filippov, M Ryazantseva*

Behaviour of Bubble Clusters in a Turbulent Flow — *Z Chen, S Ata, G J Jameson*

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