

Oral Presentation Program_21st October

I.D.	Title	Authors	Time
Opening	Development in Biohydrometallurgy Research – What We Know and What We Still Need Know	Jochen Petersen	9:00
Keynote	Mapping the dynamics of the mixed microbial community of iron- and sulfur-oxidisers in relation to process conditions and performance	Susan Harrison	9:20
FA003	Bio-mineral processing of double refractory gold ore in sequential treatment using a thermophilic archaeon followed by fungal spent medium	Kojo T. Konadu, Susan T. L. Harrison, Kwadwo Osseo-Asare, Keiko Sasaki	9:40
FA006	Incorporating Project Techno-Economic Evaluation During BIOX Testwork Programs	Jan van Niekerk	9:55
FA007	Effect of Pyrite Semiconducting Properties on Bornite Bioleaching by Mixed Moderately Thermophiles	Maixin Hong, Xingxing Wang, Xiaotao Huang, Rui Liao, Shitong Liu, Guanzhou Qiu, Jun Wang	10:10
FA001	Heap bio-oxidation of sulfidic gold ores – A review of current processes and challenges	Ahmad Ghahreman	10:25
Keynote	Biogeochemistry of metal sulfide dissolution	Axel Schippers	11:00
EG001	Microbial community variation and interaction in AMD-contaminated paddy soil after pH elevation	Chuling Guo, Han Wang, Zhi Dang	11:20
EG003	Bioprospecting and the Microbial Ecology of a Coal Production Waste Dump	Viviana Fonti, Catherine Joulain, Anne-Gwenaelle Guezennec, Christopher G.Bryan	11:35
EG007	Phenomics study of microbe-mineral interaction in bioleaching and acidic mine drainage: exemplified from <i>Sulfobacillus thermosulfidooxidans</i> -(arseno) pyrite interaction	Jin-lan Xia, Zhen-yuan Nie, Huai-dan Zhang, Duo-rui Zhang, Xuan Pan, Yi-dong Zhao, Lei Zheng, Wen Wen, Li-juan Zhang	11:50
Keynote	Biohydrometallurgy and Bioremediation: from Genomics to Industrial Applications	Xueduan Liu	13:50
MM007	Proteomic response to hydrogen peroxide-induced oxidative stress in pyrite-grown <i>Acidithiobacillus ferrooxidans</i>	Jiri Kucera, Pavel Bouchal, Oldrich Janiczek, Martin Mandl	14:10
MM011	Molecular-biological Monitoring of Microbial Population of Industrial Bioleach Reactors	Aleksandr Bulaev, Aleksandr Belyi, Anna Panyushkina, Natalia Solopova	14:25
MM015	Applications of molecular biological methods in the microbial community analysis of biohydrometallurgy: A brief review	Lu Qian, Yansheng Zhang, Hongbo Zhao, Guanzhou Qiu	14:40
MM016	First insight to the microbial communities in the plant process water of the multi-metal Kevitsa mine.	Malin Bomberg, Hanna Miettinen, Benjamin Musuku, Päivi Kinnunen	14:55
Keynote	Bioaccumulation and Bioremediation of Radionuclides after Fukushima Daiichi Nuclear Power Plant Accident	Toshihiko Ohnuki	16:10

BR001	Microbial populations associated with the Cu/Zn Kam Kotia Mine after geosynthetic clay liner cover system installation	Eva Pakostova, Adrienne Schmall, Jeff Bain, Heather White, Steve Reitze, Carol J. Ptacek, David W. Blowes	16:30
BR026	Selenium recovery from wastewater using <i>Pseudomonas stutzeri</i> NT-I	Osamu Otsuka, Mitsuo Yamashita	16:45
BR018	Towards comprehensive sulfur and metal management: combining biological sulfate removal and metal recovery	Marja Salo, Kristina Broberg, Johanna Björkmalm, Erika Lönntoft, Karin Willquist, Jason Yang, Oleg Knauf, Pertti Koukkari, Jarno Mäkinen	17:00
BR019	Pilot-scale test of acid mine drainage treatment using sulfate-reducing bacteria	Tsubasa Washio, Kentaro Hayashi, Kazuhiro Kojima, Yusei Masaki, Akihiro Kanayama, Takaya Hamai, Mikio Kobayashi, Nobuyuki Masuda, Masahiro Sowanaka, Takeshi Sakata	17:15
BR022	Bioremediation—an important technology for a sustainable mining in the future	Sabine Willscher	17:30

Oral Presentation Program_22nd October

I.D.	Title	Authors	Time
Keynote	Influence of the allotropic form of sulphur on bacterial attachment and biooxidation rate in the presence of <i>A. ferrooxidans</i>	Mabel Araneda, Davor Cotoras, Tomás Vargas	9:00
FA015	Biobenification of flotation tailings for civil construction	S. Kutschke, C. Hintersatz, R. Bertheau, S. Dirlich, K. Pollmann	9:20
FA048	Carbon-assisted bioleaching of primary copper sulfides	Keishi Oyama, Kyohei Takamatsu, Hajime Miki, Keiko Sasaki, Naoko Okibe	9:35
FA035	Bioflotation of sulphide complex mineral with halophilic bacteria: First results	Guillermo Luque Consuegra, Gonzalo Matias Pizarro Bore, Sabine Kutschke, Martin Rudolph, Katrin Pollmann	9:50
FA040	The synergistic effect of pyrite on covellite ferrous leaching	Shichao Yu, Chaojun Fang, RuiLiao, Baojun Yang, Xuyi Wei, Shitong Liu, Jun Wang	10:05
FA033	Metal recovery from printed circuit boards (PCBs) by acidophilic bioleaching	Agathe HUBAU, Alexandre CHAGNES, Michel MINIER, Anne-Gwenaëlle GUEZENNEC	10:20
Keynote	Sustainable use of precious metals through biohydrometallurgical recycling	Norizoh Saitoh, Toshiyuki Nomura, Yasuhiro Konishi	10:55
PF002	Review on (bio)hydrometallurgy of silicates: An emphasis on the recovery of rare earth elements	Yanjun Zhang, Congren Yang, Yansheng Zhang, Hongbo Zhao	11:15
PF003	The single-stage up-flow fixed bed reactor (UFBR) treating nickel and cobalt-containing wastewater	Yun Liu, Antonio Serrano, James Vaughan, Gordon-Southam, Ivan Nancucheo, Denys K. Villa-Gomez	11:30
PF012	An integrated biohydrometallurgical process for metal recovery from electronic wastes	Jonovan Van Yken, Naomi Boxall, Ka Yu Cheng, Aleks Nikoloski, Navid Moheimani, Veena Sahajwalla, Marjorie Valix, Anna H Kaksonen	11:45
Keynote	Comparative Genomics Sheds Light on the Evolutionary Mechanism and Dynamics of Extreme Acidophiles	Carolina González, Gonzalo Neira, Eva Vergara, Diego Cortez, Jorge Valdés, David Holmes	14:00
MM019	Bacterial Upcycling of Metals	Nikolaos Pantidos, Virginia Echavarri-Bravo, Louise E. Horsfall	14:20

MM018	Adaptation of CRISPR/Cas systems for characterisation of genes involved in upcycling of rare earth elements and platinum group metals	Ian Eggington, Michael Capeness, Louise Horsfall	14:35
MM027	Genomics-Driven Optimization of the Bio-recovery of Refractory Gold from Arsenic-Rich Materials	Madiha F. Khan, Paul Miller, Nadia Mykytczuk	14:50
MM028	Molecular microbial indicators for industrial bioleaching operations and its implementation in a Decision support system	R. Véliz, C. Demergasso, P. A. Galleguillos, S. Marín, M. Acosta	15:05
Keynote	Fundamental Study of Uranium Mobility and the Progress of Ground Water Monitoring	Yi Yang, Rahul Ram, Mark I. Pownceby, Miao Chen	16:20
FA059	A new understanding of chalcopyrite and bornite bioleaching mechanism: redox potential, synergistic or catalytic effect and electrochemical dissolution	Jun Wang	16:40
FA060	Iron-oxidizing bioreactor with biogenic jarosite carrier	Sarita Ahoranta, Aino-Maija Lakaniemi, Jaakko A. Puhakka	16:55
FA062	Bioleaching of cobalt from sulfide mining tailings; a mini-pilot study	Jarno Mäkinen, Marja Salo, Mohammad Khoshkhoo, Jan-Eric Sundkvist, Päivi Kinnunen	17:10
FA068	Bioleaching of weathered platinum ore for the efficient recovery of base metals and precious metals	Sabrina Hedrich, Malte Junge, Axel Schippers	17:25
FA073	Bioleaching of Metals from Pyrolised PCBs using Coal as External Sulphur Source	Muhammad Arinanda, Quentin Van Haute, Fanny Lambert, Stoyan Gaydardzhiev	17:40

Oral Presentation Program_23rd October

I.D.	Title	Authors	Time
Keynote	Microbiological removal of arsenic from mining-impacted waters	Naoko Okibe	9:00
BR027	Engineering co-disposal protocols for prolonged ARD prevention	D. Mjonono, S.T.L Harrison, A. Kotsiopoulos	9:20
BR033	Biological sulphate reduction as sustainable treatment of acid rock drainage: performance of an acetate supplemented Linear Flow Channel Reactor	Tomas Hessler, Susan T.L. Harrison, Robert J. Huddy	9:35
BR035	Desulphurising high sulphur coal discards using a heap leach approach	Olivier Tambwe, Athanasios Kotsiopoulos, Susan T. L. Harrison	9:50
BR036	CEReS - Co-processing of Coal Mine & Electronic Wastes: Novel Resources for a Sustainable Future	C.G. Bryan, B.J. Williamson J. Calus-Moszko, Q. van Haute, A.-G. Guezennec, S. Gaydardzhiev, P. Wavrer, R. Frączek	10:05
BR040	Simultaneous biological oxidation of ferric iron and chemical oxidation of arsenite to produce scorodite	Jan Weijma, Silvia Vega-Hernandez, Cees J.N. Buisman	10:20
BR037	Elements of Biomining Network: Genomics-Driven Advances in Bioleaching, Sulfur and Selenium Stabilization in Mine Operations	V. Papangelakis, E. Edwards, S. Baldwin, B. Saville, A. Yakunin, E. Bobicki, K. Mahadevan, M. F. Khan, G. Moldoveanu, C. Romano, N. Mykytezuk	10:35
Keynote	Fungally formed Mn oxides and their application to bio-templated Li⁺ ion sieve	Keiko Sasaki	11:10
NB005	Using waste to treat waste in the circular economy	Thabo Mabuka, Susan T. L. Harrison, Elaine Govender-Opitz	11:30
NB001	Solubilization of silicatein by fusing with a small soluble protein	Kasun Godigamuwa, Hidetoshi Oguri, Junnosuke Okamoto, Kazunori Nakashima, Satoru Kawasaki	11:45
NB004	Design of bacterial cell surface for specific binding to metals	Kazunori Nakashima, Yoshiaki Iwata, Satoru Kawasaki	12:00
Keynote	Communicating biohydrometallurgical results to metallurgists	Frank F. Roberto	14:00
FA074	Small-scale production studies of the amphiphilic siderophore marinobactin using iron, manganese and zinc as trace elements	Sylvi Schrader, Sabine Kutschke, Katrin Pollmann	14:20
FA075	Influence of irrigation-to-aeration rate on bioleaching performance of copper sulfide ores using numerical simulation	HUANG Mingqing	14:35

FA081	Bioleaching of a polymetallic residue: influence of the temperature on the sulfide leaching yield	Anne-Gwénaëlle GUEZENNEC, Agathe HUBAU, Jérôme JACOB, Simon CHAPRON, Chris BRYAN, Catherine JOULIAN	14:50
FA086	Setup of an Underground in-situ Bioleaching for Sulphide Ores in Crystalline Hard Rock Formations – Challenges and Opportunities	Tobias Krichler, Ralf Schlüter, Helmut Mischo	15:05
FA103	Bacterial pretreatment for the recovery of gold from gold-bearing clays and carbonate minerals using iron- and sulfur oxidizing mixotrophic bacteria	Siti Khodijah Chaerun, Nurah Anugrah, Wahyudin Prawira Minwal, Zela Tanlega Ichlas, Mohammad Zaki Mubarak	15:20
Keynote	The Bioleaching of Rare Earth Elements from Phosphate Ores- a New Biotechnological Challenge	Homayoun Fathollahzadeh, Melissa Corbett, Jacques Eksteen, Elizabeth Watkin	16:05
PF009	Experimental study on microbial impact on fuel debris by widespread bacteria	Jiang LIU, Yuma DOTSUTA, Toru KITAGAKI, Naofumi KOZAI, Toshihiko OHNUKI	16:25
PF014	Biomimic innovations for effective and selective metal recovery from complex waste matrixes	Karin Willquist, John Murnane, Susan Reichel, Erika Lönntoft, Kristina Broberg, Bashir Ghanim, Tom O’Dwyer, Sabine Langkau, Antonia Loibl, René Kermer, Sudhanshu Pawar, J.Tony Pembroke	16:40
PF018	Bio-recovery of metals from lithium-ion batteries installed in electric vehicles	Virginia Echavarri-Bravo, Michael J. Capeness, Houari Amari, Nigel D. Browning, Louise E. Horsfall	16:55
Closing	Prospective directions for biohydrometallurgy	Anna H. Kaksonen , Naomi Boxall, Yosephine Gumulya, Himel Nahreen Khaleque, Tsing Bohu, Xiao Deng, Luis Zea, Christina Morris, Jonovan Van Yken, Ka Yu Cheng	17:45

Poster Presentation Program

I.D.	Title	Authors
FA002	A pilot study on the biological detoxification and utilization of Copper Sludge from Printed Circuit Board Production	Wenbo Zhou, Jianxing Sun, Shaoan Zhao, Kai Li, Haina Cheng, Hongbo Zhou
FA004	Effect of carbonaceous matter on bioleaching of Cu from carbonaceous chalcopyrite ore	Kojo T. Konadu, Ryotaro Sakai, Diego M. M. Flores, Susan T. L. Harrison, Kwadwo Osseo-Asare, Keiko Sasaki
FA005	Selective inhibition of pyrite oxidation through redox potential control during heap bioleaching of copper sulfide ore: a pilot-scale tests	Heyun Sun, Yan Jia, Qiaoyi Tan, Renman Ruan, Luohu Zhang, Chuangang Zhong, Jianfeng Shi, Shenggui Zhao, Li Li, Yiyang Gao
FA008	Environment-friendly biohydrometallurgical enhanced copper extraction from non-pulverized waste printed circuit boards	Asha B Sodha, Devayani R Tipre, Shailesh R Dave
FA012	Sulfur-enhanced reductive bio-processing of Co-bearing materials using a consortium of acidophilic iron- and sulfur-oxidizing bacteria	Ana Laura Santos, D. Barrie Johnson
FA013	Leaching of chalcopyrite under bacteria-mineral contact/uncontact leaching model	Ma Pengcheng
FA014	CFD numerical simulation of multiphase flow in a bioleaching stirred tank reactor: Effects of impeller geometry on pyrite suspension	Jonathan CHERON, Céline LOUBIERE, Stéphane DELAUNAY, Yannick MENARD, Anne-Gwénaëlle GUEZENNEC, Eric OLMOS
FA016	Three-step biohydrometallurgical process for recovery of metals from stored pyritic flotation tailings	Maxim Muravyov, Aleksandr Bulaev, Natalya Fomchenko
FA017	Bioprocessing of arsenic-bearing cobalt resources	Ana Laura Santos, Sarah Smith, D. Barrie Johnson
FA020	Bioleaching of mineral phosphates containing rare earth elements using <i>Aspergillus niger</i>	Laura Castro, Fabiana Rocha, M. Luisa Blázquez, Felisa González, Jesús A. Muñoz
FA021	Fungal degradation of elemental carbon from Carbonaceous gold ores optimized by response surface methodology.	Qian Liu, Hongying Yang, Linlin Tong
FA024	Study on Column Bio-oxidation of Dacite-type Low-Grade Ultrafine Refractory Gold Ore	Jiafeng Li, Linlin Tong, Hongying Yang
FA025	Study on Bioleaching of Copper from Waste Circuit Boards	Linlin Tong, Qianfei Zhao, Hongying Yang
FA026	Effect of Humic Acid on Copper Behavior in Bioleaching from Waste Printed Circuit Boards	Qianfei Zhao, Linlin Tong, Hongying Yang
FA027	Study on Interfacial Characterization of Arsenopyrite in Bioleaching	YANG Hong-ying, YIN Lu, TONG Linlin
FA028	An Optimal Method: Experimental Study on Counting Adhered Cell Density on Mineral Surface	LI Xiang, Tong Lin-lin, YANG Hong-ying, YIN Lu

FA029	Study on Valence Changes of Arsenic in Arsenic Bearing Sulfide Bioleaching	TONG Lin-lin, YANG Hong-ying, YIN Lu, ZHAO Miao-miao
FA030	Study on interface corrosion of pyrite during bioleaching	Tong Lin-lin, Zhao Miao-miao, Yang Hong-ying, Yin Lu
FA031	Insights into the community structure of free bacteria in Pyrite bioleaching of different stages	YIN Lu, YANG Hong-ying, TONG Linlin
FA032	Review on the bio-oxidation of pyrite: Implications for mining industry	Xin Lv
FA034	Bioleaching of cobalt-rich ferromanganese crusts by the Fe(III)-reducing bacterium <i>Shewanella</i> algae	Norizoh Saitoh, Toshiyuki Nomura, Yasuhiro Konishi
FA036	Microbial treatment of carbonaceous gold ores to overcome preg-robbing	Marina P. Belykh, Alexandr V. Byvaltsev, Grigory I. Voiloshnikov, Sergey V. Petrov, Olga D. Khmel'nitskay, Natalia L. Belkova
FA037	Synergistic catalytic effects of visible light and Cd^{2+} on bioleaching of chalcopyrite	Chunxiao Zhao
FA038	Bioleaching of Cu/Co-rich mine tailings from the polymetallic Rammelsberg mine, Germany	Ruiyong Zhang, Sabrina Hedrich, Felix Römer, Axel Schippers
FA039	Synergistic effect of Fe/S oxidation by mixed moderate thermophiles on Al and Ce dissolution from CFA	Xiaolu Fan, Xuan Pan, Jinlan Xia, Zhenyuan Nie, Duorui Zhang, Wen Wen, Lei Zheng, Yidong Zhao
FA041	Chalcopyrite dissolution by Archaea <i>Acidianus manzaensis</i> under anaerobic condition	Hongchang Liu, Duorui Zhang, Jinlan Xia, Zhenyuan Nie, Peng Yuan
FA042	Two stage Biohydrometallurgical Process for Leaching of Copper-Zinc Concentrate	Aleksandr Bulaev, Yulia Elkina, Vitaliy Melamud, Anna Boduen
FA043	Pretreatment of Refractory Gold Deposit by HQ0211 Mixed microbial culture medium	Ali Auwalu, Hongying Yang
FA044	Resistance to As^{5+} and bioleaching of arsenic bearing refractory gold ore by HQ0211 Mix microbial culture	Ali Auwalu, Hongying Yang
FA045	Bio-dissolution of arsenic-bearing gold ore by HQ0211 mix microbial medium in comparison with Acidic and dead bacterial media	Ali Auwalu, Hongying Yang
FA046	Effect of salinity on bioleaching of chalcopyrite concentrate	Haruki Noguchi, Naoko Okibe
FA047	Thiourea bioleaching for gold and silver recycling from PCB	Yu Tanaka, Naoko Okibe
FA049	Impact of mechanical activation on bioleaching of chalcopyrite by sulphuric acid	Zhao Suxing, Yang Hongying, Chen Guobao, Chen Yajing, Qiu Xuemin, Liu Yuanyuan
FA050	The influence of reactive oxygen species on bioleaching of mechanically activated chalcopyrite	Zhao Suxing

FA051	Impact of mechanical activation on bioleaching of pyrite: A DFT study	Xing-fu Zheng, Si-ting Cao, Zhen-yuan Nie, Jian-hua Chen, Wei-bo Ling, Li-zhu Liu, Xuan Pan, Hong-ying Yang, Jin-lan Xia
FA052	Continuous tank bioleaching of chalcopyrite concentrate using adapted mesophilic microorganism	JunHyuk You, Suhyeon Jin, Yejin Lee, Danilo Borja, Stephen Kayombo Solongo, Allan Gomez-Flores, Martin Urik, Hyunjung Kim
FA053	Impact of mechanical activation on bioleaching of chalcopyrite: A new view	Xing-fu Zheng, Si-ting Cao, Zhen-yuan Nie, Jian-hua Chen, Hong-ying Yang, Jin-lan Xia
FA054	Industrial application of single impeller biological oxidation reactor	YANG Hong-ying, LIU Zilong, TONG Linlin, Song Yan, LIU Yuanyuan
FA055	Achievements in the processing of flotation concentrates of ores of the Olimpiada deposit using bionord technology in the conditions of the far north	Alexander Belyi, Anatoly Teleutov, Natalia Solopova
FA056	Biooxidation of antimony-gold arsenic flotation concentrates Combined with the process of antimony sorption from biopulp	Aleksandr Belyi, Aleksandr Malashonok, Natalia Solopova
FA057	Study on Leaching of Refractory Gold Ore Bearing Arsenic by Bio-preoxidation and Cyanidation	He Shang, Biao Wu, Jiankang Wen, Wencheng Gao
FA058	Experimental study on leaching of low grade uranium ore	Rao Miaomiao, Zhou Zhongkui, Zheng Lili, Ge Yubo, Sun Zhanxue, Xu Lingling, Chen Gongxin, Gao Xu
FA061	Advances in biohydrometallurgical treatment of iron-rich slags and sludges	Jarno Mäkinen, Marja Salo, Päivi Kinnunen
FA063	Study on iodide-oxidising bacteria generating potential lixiviant solution for gold leaching	San Yee Khaing, Yuichi Sugai, Kyuro Sasaki
FA064	Review on hydrometallurgy of sphalerite with an emphasis on biohydrometallurgy	Xiaoyu Meng
FA065	Adsorption and subsequent incineration of bulk metal-loaded adsorbents to recover gold and copper as an alloy from bioleached waste solution of printed circuit boards	John Kwame Bediako, Jong-Won Choi, Ha-Yeon Shin, Minhee Han, Myung-Hee Song, Yeung-Sang Yun
FA066	Bioleaching-adsorption combined process for simultaneous copper leaching and recovery from waste PCBs	Myung-Hee Song, John Kwame Bediako, Jong-Won Choi, Amit Kumar Sarkar, Yeung-Sang Yun
FA067	Study on a technique counting bacterial population of target microorganisms in reservoir using flow cytometry	Minato Ito, Yuichi Sugai, Kyuro Sasaki, Ronald Nguete
FA069	Effect of spraying intensity on column bioleaching of low-grade uranium ore	Xuegang Wang
FA070	Bacterial leaching of complex copper oxide ores in Zambia	Gairong Wang, Yuanyuan Liu, Linlin Tong, Zhenan Jin, Hongying Yang

FA071	Research on the effects of slurry concentration in nickel tailings bioleaching	Xin Wang, Hong ying Yang
FA072	Uranium recovery and Microorganisms Population Changes by Pipe-Line Bioleaching for Sandstone Type Uranium Ore	Yajie Liu
FA076	Microbial GaAs leaching in a continuous bioreactor set-up	Fabian Giebner
FA077	Bioreactor Leaching of Chalcopyrite in Presence of Chloride	Benjamin Monneron, Ngoc Dieu Huynh, Fabian Giebner, Stefan Kaschabek, Michael Schlömann
FA079	Does microbial cell immobilisation improve metal tolerance in e-waste bioleaching systems?	Musa D. Maluleke, Athanasios Kotsiopoulos, Elaine Govender-Opitz, and Susan T.L. Harrison
FA080	Batch kinetics of iron oxidation by <i>Acidiplasma cupricumulans</i> when exposed to thiocyanate present in bioremediated cyanidation tailings waste water	Catherine Edward, Athanasios Kotsiopoulos, Elaine Govender-Opitz, Susan T.L. Harrison
FA082	Development and experimental validation of a new mathematical model to assist the scale-up of aerated stirred tank bioreactors: application to a coal waste bioleaching process	Marie-Amélie De Ville D'avray, Anne-Gwénaëlle Guezennec, Philippe Wavrer, Daniel Du-rall López, Etienne Braak, Simon Chapron, Catherine Jouliau, Chris Bryan
FA084	pH effect on the bioleaching of a complex sulphide concentrate (Cu, Zn, Pb and Ag)	Juan Lorenzo-Tallafigo
FA085	Contact effect on bioleaching of composite sulfide copper ores	Zeng-ling Wu, Wang-zhong Yin, Jin-yan Liu, Wei-zhang Kong
FA087	Comparative Extractions of Valuable Metals from Copper Slag by Leaching with Different Chemolithotrophic Bacteria and Archaea	Stoyan Groudev
FA088	Bioleaching of chalcopyrite with mesophilic bacteria in saline medium	R. E. Rivera Santillán, F. Patricio Ramírez, G. A. Castillo Olivera
FA089	Bioleaching of copper from Iron Oxide Copper Gold (IOCG) materials; the Salobo Mine, Brazil	Anicia Henne
FA091	Effect of acetate and citrate on chemical and biological leaching of pyrite and chalcopyrite with sulfur and iron oxidizing mesophilic bacteria	R. E. Rivera Santillán, J. R. Castro Montoya.
FA092	In situ leaching of copper ores: current developments and perspectives for bioleaching applications	Tomás Vargas, Humberto Estay, Ernesto Arancibia, Simón Díaz
FA094	Secondary Reactions in the Bioleaching of Nickel Laterite Ores	Ulfa Nimah, Marjorie Valix
FA095	Chemolithoautotrophic Oxidation of Elemental Sulphur and Sucrose by <i>Aspergillus Niger</i> for Bioleaching of Weathered Saprolite	Hee-Chan Jang, Weiyi Liu, and Marjorie Valix
FA096	Differences between chemolithotrophs from one and the same species to leach gold-bearing sulphide concentrate	Marina Nicolova

FA097	Synergistic effect produced by oxidizing agents and doping with another mineral during the leaching of semiconductor minerals	R. E. Rivera-Santillán, A. López-Juárez, F. Estrada de los Santos, F. Bautista
FA098	Biosorption of heavy metals present in effluents from the mining- metal-lurgical industry, through the use of wine wastes	R. E. Rivera Santillán, F. Patricio Ramírez, B. J. Aguirre López.
FA099	The Feasibility of Using Bioprocessing for the liberation of Vanadium from Titaniferous Magnetite of the Bushveld Complex South Africa	Gabriella Nxumalo, Sehliselo Ndlovu, Marek Dworzanowski
FA100	NaHS production from biogenic H ₂ S generated by a new microbial consortia native from Atacama Desert that use alternative mineral sources as final electron acceptor	Sabrina Marín E., Daniela Ríos R., Cecilia Demergasso S.
FA104	Extraction of copper (Cu) from low-grade complex copper ores using biosurfactant-producing bacteria	Siti Khodijah Chaerun, Frideni Yushandiana Putri, Wahyudin Prawira Minwal, Zela Tanlega Ichlas, Mohammad Zaki Mubarak
FA105	Leaching of low-grade primary copper sulfide ore with JX Iodine Process	Akira Miura, Yuken Fukano, Ken-ichi Kuwano, Katsuyuki Sato
FA107	The role of complex organic acid liquid: iron (III) oxalate dihydrate [Fe (CO ₂ O ₄) .2 (H ₂ O)] for biodesulfurization of organic sulfur in Tondongkura Coal, South Sulawesi, Indonesia, using multi-stage bioprocess treatment II / IBEAMCOAL Method	Yustin Paisal, Siti Khodijah Chaerun, Ismi Handayani, Syoni Soeprianto
FA108	Chalcopyrite bioleaching with <i>Sulfolobus acidocaldarius</i> in the presence of 1mol/L NaCl solutions	Martins, F. L., Leão, V. A.
FA109	Heap bioleaching of sulphide polymetallic ores with the extraction of zinc, copper and gold	Luidmila Ye. Shketova, Natalia V. Kopylova, Yuri Ye. Yemelyanov, Alexey N. Seleznev
FA110	Eliminating Recalcitrant Minerals in Refractory Bio-oxidised Gold Concentrates	Richmond K. Asamoah, Grace Ofori-Sarpong, Richard Amankwah, Jonas Addai-Mensah, William Skinner
FA111	The effect of microbial load within process water on the flotation of a PGM bearing ore	Mariette Smart, Vushe Wabatagore, Kirsten Corin, Sue Harrison
NB002	Biomining of platinum group metal nanoparticles using the metal ion-reducing microorganisms and their environmental applications	Norizoh Saitoh, Kei Niguma, Yusuke Hanaichi, Toshiyuki Nomura, Yasuhiro Konishi
NB003	Influence of soluble protein tag on the activity of silica-polymerizing enzyme	Sota TSUJITANI, Kazunori NAKASHIMA, Jyunnosuke OKAMOTO, Satoru KAWASAKI
EG002	Formation of iron and manganese crusts by possible microbial oxidation in riverine environment	Shin-ichi Hirano, Toru Nagaoka, Yuki Ito, Shiro Tanaka, Takahiro Oyama

EG008	Geomycological gold transformation under Earth supergene condition	Tsing Bohu, Ravi Anand, Anais Pages, Anna H. Kaksonen
EG009	An integrated metagenomic study suggests energy flux in AMD system mainly from microbial sulfuric oxidation	Zonglin Liang, Delong Meng, Huaqun Yin, Chengying Jiang, Shuang-Jiang Liu
EG010	Metabolism and evolution of the thermophilic archaeal genus <i>Metallosphaera</i> : Genomic insights	Zonglin Liang, Liangzhi Li, Yalin Qing, Huaqun Yin, and Cheng-Ying Jiang
MM001	Determination of lignin-modifying enzymes by capillary electrophoresis using in-capillary reactions	Takashi Kaneta, Airi Harada, Sumire Kudo, Hiroe Kubota, Keiko Sasaki
MM002	Characterization of the novel thiosulfate: quinone oxidoreduc-tase from a marine acidophilic sulfur-oxidizing bacterium, <i>Acidi-thiobacillus</i> sp. strain SH.	Maho Otsuki, Tadayoshi Kanao, Sultana Sharmin, Mirai Tokuhisa, Kazuo Kamimura
MM003	Cell-to-cell-signaling in microbial communities of pyrite-oxidizing acidophiles	Sören Bellenberg, Mario Vera, Mark Dopson
MM004	Optimizing the detachment of ore agglomerate bound microorganisms	Halme EO, Auvinen H, Lakaniemi AM, Puhakka JA, Rinta-Kanto JM
MM005	Characterization of tetrathionate hydrolase from the marine acidophilic sulfur-oxidizing bacterium, <i>Acidithiobacillus</i> sp. strain SH	Shuji Ohgimoto, Moe Onishi, Kazuo Kamimura, Tadayoshi Kanao
MM006	Crystallization and preliminary X-ray diffraction analysis of tetrathionate hydrolase from <i>Acidithiobacillus ferrooxidans</i> .	Tadayoshi Kanao, Kazumi Nishiura, Megumi Kosaka, Kazuo Kamimura, Taro Tamada
MM008	Aspects of heavy metal resistance in thermoacidophilic bacteria of the genus <i>Sulfobacillus</i>	Anna Panyushkina, Vladislav Babenko, Vitaliy Melamud, Aleksandr Bulaev
MM009	Isolation of a novel acidophilic zero-valent sulfur- and ferric iron-respiring <i>Firmicute</i> and its application in a novel “hybrid” bioreactor for removing of zinc from a circum-neutral pH mine-impacted water.	Roseanne Holanda, D. Barrie Johnson
MM010	Identification of <i>Escherichia coli</i> genes responsible for reduction of palladium ion	Mizuho Kamino, Takuya Matsumoto, Ryosuke Yamada, Yasuhiro Konishi, Hiroyasu Ogino
MM012	A new gene expression system for a thermophilic bacterium, <i>Thermus thermophilus</i> , using a silica-inducible promoter.	Naofumi Tsuchiya, Yuri Suematsu, Yasuhiro Fujino, Katsumi Doi
MM013	Constraint based metabolic flux analysis of <i>Acidithiobacillus-ferrooxidans</i> under extreme environmental stresses	Himel N. Khaleque, Yosephine Gumulya, Naomi J. Boxall, Michael Vacher, Ross P. Carlson, Brent M. Peyton, Ville Santala, Ian Small, Yuta Inaba, Scott Banta, Anna H. Kaksonen

MM014	Towards understanding of reporting errors of bacterial and archaeal species 16S rRNA gene copy numbers in microbial cultures for bioleaching and biooxidation	Sabrina Hedrich, Axel Schippers, Sue Harrison, Mariette Smart
MM017	Pyrrhotite Oxidation by Moderately Thermophilic Microorganisms	Aleksandr Bulaev
MM020	Effect of Inoculum History, Growth Substrates and Yeast Extract Addition on Chloride Toxicity to <i>Sulfobacillus thermosulfidooxidans</i>	Dieu Huynh, Stefan R. Kaschabek, and Micheal Schlömann
MM022	Total organic carbon measurements and biomass quantification of bioleaching bacteria	Martin Mandl, Eva Pakostova, Simona Sidorova, Jiri Kucera
MM024	Potential of bacterial As(III) oxidation in microbial enrichments from a small Pb-Zn Mine in Hunan, China	Catherine Jouliau, Feng Feng Zhang, Q Peng, P Zhang, L Luo, X Li, Mickael Charron, Cindy Gassaud, Fabienne Battaglia-Brunet
MM025	Xeric stress induces oxidative stress in iron-oxidizing acidophilic bacteria	Muñoz-Villagrán, Claudia, Navarro-Salazar, Sebastian, Levicán, Gloria
MM026	The influence of metal ions on ferrous ion oxidation kinetics by <i>Letospirillum ferriphilum</i>	A.S. Khachatryan, N.S. Vardanyan, Z.S. Melkonyan, A.K. Vardanyan
MM029	Identification of <i>Escherichia coli</i> genes responsible for adsorption of palladium ion	Yoshitaka Tanaka, Mizuho Kamino, Takuya Matsumoto, Ryosuke Yamada, Yasuhiro Konishi Hiroyasu Ogino
MM030	Carbon dioxide mass transfer limitation of the growth of <i>Acidithiobacillus ferrivorans</i> on ferrous iron	Daniel Kupka, Zuzana Bártová, Lenka Hagarová
MM031	Mechanism of Cadmium Tolerance in <i>Acidithiobacillus ferrooxidans</i> from Gene Expression Levels	Minjie Chen, Yafei Li, Bowen Li, Panbo Deng, Chunli Zheng, Xuefeng Zhang
MM032	Quantitative and qualitative analysis of the detachment of mineral associated microorganisms and the biochemical composition of EPS in a flow-through system simulating heap and waste dumps	Didi X. Makaula, Robert J. Huddy, Marijke A. Fagan-Endres, Susan T.L. Harrison
BR002	Removal, separation, and recovery of cobalt, cesium, and strontium from the mixed solution using <i>Arthrobacter</i> cells.	Takehiko Tsuruta, Jun Tachibana, Kazuya Yokoyama, Akira Shiga, Takahiro Nagane, Hiroya Koseki
BR003	SU/RE – a three-step biotechnology for the treatment of effluents from hydrometallurgical recycling of spent zinc-carbon batteries	Lukasz Drewniak, Zhendong Yang, Witold Uhrzynowski, Jacek Retka, Joanna Karczewska-Golec, Klaudia Debiec-Andrzejewska, Zbigniew Rogulski
BR004	THE DEVELOPMENT OF BIOTECHNOLOGY OF PROCESSING OF DUMPED SULPHIDE ORE DEPOSITS OF KOKPATAS BY THE METHOD OF HEAP LEACHING	Nigora A. Magbulova, Muyassar G. Sagdiyeva, Dilshod J. Mirtalipov, Zamira G. Sagdiyeva, Zinaida V. Kalinichenko, Olga P. Vasilenok

BR006	Simultaneous removal of arsenate and zinc using an acidophilic sulfate reducing bioreactor	González, D, Hedrich, S., Schwarz, A., Liu, Y. , Villa Gomez, D, Southam, G., Saavedra, F, Nancucheo, I.
BR007	Bioremediation of chromium smelting slag by sulfate-reducing bacteria	Xiao Yan, Xingyu Liu, Mingjiang Zhang, Xinglan Cui, Juan Zhong, Xuewu Hu
BR008	Solubilisation of metal sulfide concentrates generated from an acidophilic sulfidogenic bioreactor used to remediate acidic mine water	Ana Laura Santos, D. Barrie Johnson
BR009	Bioleaching in continuous and closed systems of columns carried by autochthonous microbial communities	Ana M. Diaz, Giuditta Romio, Parastou Sadeghi, M. Cristina Vila, Olga Nunes, Sílvia Santos, António Fiúza
BR011	Development of Biotechnology for Reprocessing of Technogenic Waste in the Almalyk Mining Metallurgical Complex	Sherzod T. Khidirov, Muyassar G. Sagdieva, Yulduz M. Abdukadirova, Rashidbek Ch. Omonov, Vitaliy P. Guro
BR012	Iron removal as a result of biochemical pretreatment of effluent from hydrometallurgical recycling of spent zinc-carbon battery	Zhendong Yang, Grazyna Jakusz, Klaudia Debiec, Lukasz Drewniak
BR013	EXTRACTION OF COLOR AND RARE METALS FROM BLACK-SHELL TYPE ORE BY BACTERIAL-CHEMICAL METHOD LEACHING	O.N. Tashkanbaev, S.A. Soatov, U.A. Somov, M.G. Sagdiyeva, M.M. Mir-Rakhimov, A. Khozhiev, D.M. Ismatova, A.V. Baranova, V.P. Guro
BR014	Bacterial sulfate reduction: the recovery of metal sulfides from pretreated effluents from zinc-carbon battery recycling	Zhendong Yang, Witold Uhrynowski, Jacek Retka, Joanna Karczewska-Golec, Aleksandra Kurowska, Lukasz Drewniak
BR015	Integrated Processing of Combusted Slates of Uzbekistan by Biogidrometallurgical Method	M.U. Isokov, O.N. Tashkanbaev, I.M. Almatov, U.A. Somova, M.G. Sagdieva, V.P. Guro
BR016	Arsenic sorption using biogenic iron compounds and its application to real water treatment	Laura Castro, Fabiana Rocha, M. Luisa Blázquez, Felisa González, Jesús A. Muñoz
BR017	Bioremediation of selenium-contaminated soils using a selenate-reducing bacterium <i>Pseudomonas stutzeri</i> NT-I	Fumiya Kotake, Osamu Otsuka, Ryo Nishizato, Minoru Okuno, Hiroyuki Mutou, Mitsuo Yamashita
BR020	Study on Remove of Arsenic from Bio-oxidation Gold Extraction Liquid and Stability of Arsenic-Magnesium Residue	Hongying Yang, Yajing Chen, Guobao Chen, Linlin Tong
BR021	Effect of n(Fe/As) on Stability of Arsenic-containing Slag Obtained from Biological Oxidation Solution	Yajing Chen, Linlin Tong, Guobao Chen, Hongying Yang

BR023	Oxidative removal of arsenite using biogenic manganese oxide	Ryohei Nishi, Santisak Kitjanukit, Naoko Okibe
BR024	Mn(II) oxidative removal using the bio-activated-carbon column	Santisak Kitjanukit, Naoko Okibe
BR025	Accumulation of radiocesium by fungi: implication for radiocesium circulation in forest.	Fabiola Guido-Garcia, Tatsuki Kimura, Fuminori Sakamoto, Naofumi Kozai, Karine David, Bernd Grambow, Toshikatsu Haruma, Keiko Yamaji
BR028	Groundwater quality changes on anaerobic bioremediation of trichloroethylene pollution	Tomoya Nomura, Yuki Hojo, Koji Wada, Keiichi Sakai
BR030	Natural Radioactivity Evaluation of Surface Sediments of Rivers around a Uranium Mining Area in East China	Lili Zheng, Zhongkui Zhou, Miaomiao Rao, Zhanxue Sun
BR031	Effect of a mixed electron donor with different ratios on the sulfate reduction in a sulfate reducing bacteria community	Qi Li, Yuyang Zhang, Chuling Guo, Yufei Zeng, Zhi Dang
BR032	Production of a biolixiviant solution from pyrite-bearing coal production tailings: from waste to resource	Simon Chapron, Christopher G. Bryan, Catherine Jouliau, Marion Erard, Anne-Gwénaëlle Guezennec
BR034	Enhancing thiocyanate bioremediation through biomass support and retention: Effect of loading rate and dilution rate	Fadzai Kadzinga, Robert J. Huddyard Susan T.L. Harrison
BR038	Bioleaching of a silver-bearing residue containing elemental sulphur and pyrite	Juan Lorenzo-Tallafigo
BR039	Extraction of target elements as a function of pH in the bioleaching of a flotation tailing	Juan Lorenzo-Tallafigo
BR041	Member of the genus <i>Desulfosporosinus</i> is abundant sulfate-reducing bacteria in pilot- and laboratory-scale passive bioreactors for acid mine drainage treatment	Yuya Sato, Takaya Hamai, Tomoyuki Hori, Tomo Aoyagi, Tomohiro Inaba, Tsubasa Washio, Kentaro Hayashi, Mikio Kobayashi, Hiroshi Habe, Takeshi Sakata
BR042	A TWO-STAGE AQUEOUS BIO-PROCESS FOR THE TREATMENT OF PYRRHOTITE TAILINGS	Vladimiro Papangelakis
BR043	Manganese(II) removal from wastewater using Mn-oxidizing bacteria with nitrogenous compounds	Jiro Nakanishi, Kenji Takeda, Shinichi Heguri, and Satoshi Asano
BR044	Microbiological treatment of mine tailings from Hidalgo, Mexico	Marlene Gómez-Ramírez, Nancy S. Moreno Urgell, Norma G. Rojas Avelizapa
BR045	Semi-Passive Treatment of Sulphate-rich Waste Streams in a Hybrid Linear Flow Channel Reactor Incorporating Biological Sulphate Reduction and Partial Sulphide Oxidation	Tynan Marais, Rob Huddy, Rob van Hille, Susan Harrison
BR046	Nutritional and operational requirements of archaeal dominated BIOX® cultures for efficient pretreatment of gold-bearing sulphidic minerals	Mariette Smart, Catherine Edward, Yi-Jou Chen, Craig van Buuren and Susan T.L.Harrison

BR047	Treatment of Acid Mine Drainage by the Combination of Chemical and Biological-Chemical methods	Alena Luptakova, Eva Macingova, Magdalena Balintova, Marian Holub, Stefan Demcak
BR048	Ammonia Recovery from mine water by membrane contactor and its potential use of as fertilizer in mine site restauration in Canada	Sara Magdouli, Émilie Robert, Rayen Tanabene, Mehdi Zolfaghari, Simon Pierre Komtchou
PF001	The novel leaching strategy for recovery of Ni/Co from high content of nickel and cobalt sludge	Zhuang Tian
PF004	A Flocculation Method to Eliminate the Third Phase in the Solvent Extraction Process of a Bioleaching Solution Containing Cobalt and Copper Ions	Linlin Tong, Hongying Yang, Yuanyuan Liu, Jiafeng Li, Zhenan Jin
PF006	Bioleaching of metals from e-waste using immobilized biomass of mesophilic <i>Acidithiobacillus ferrooxidans</i>	Arevik Vardanyan, Narine Vardanyan, Stoyan Gaydardzhiev
PF008	Bio-recovery of platinum and palladium from leachates of spent diesel catalysts	Norizoh Saitoh, Kazuya Bandoh, Toshiyuki Nomura, Yasuhiro Konishi
PF010	Removal and recovery of selenium from wastewater utilizing biovolatilization by selenium-metabolizing bacteria	Masashi Kuroda, Michihiko Ike
PF013	Bio-based adsorbent composed of metal binding peptide and cellulose	Yuki Togo, Kazunori Nakashima, Wilson Mwandira, Satoru Kawasaki,
PF015	Recovery of gold in laboratory waste solution from bioleaching experiments using Amberjet™ 4200 anion exchange resin	Jong-Won Choi, John Kwame Bediako, Minhee Han, Che-Ryong Lim, Myung-Hee Song, Yeoung-Sang Yun
PF016	Study on Microbial Conversion of CO ₂ into CH ₄ in Oil Reservoir using Oil-degrading-hydrogen-producing Bacteria and Methanogens	Yuichi Sugai
PF017	Biosorption of low concentrated rare earth elements in acidic solutions by various microorganisms	Anja Breuker, Simon F. Ritter and Axel Schippers
PF019	Molybdate recovery using immobilized Bioengineered <i>Saccharomyces cerevisiae</i>	Audrey Stephanie, Mei-Fang Chien, Naoya Ikeda, Chihiro Inoue
PF020	Seeking and Engineering universal oxygen-independent fluorescent proteins for anaerobic bioremediation and bio-recovery processes	Yuta Era, Louise E. Horsfall
PF021	Rare Earths Bioleaching from permanent magnets in autonomous bioreactor	Xavier Nicolay, Thomas Van Nieuwenhuysen
PF023	Alternative Bioleaching approach for Gold Recovery from Waste Printed Circuit Boards	Daniel Ray, Mahsa Banisadi, John Graves, Alan Greenwood, Angélique Lindamulage De Silva, Sebastien Farnaud