Wolfgang Sand

List of Publications by Year
in descending order

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149 papers	7,417 citations	81434 41 h-index	68831 81 g-index
151 all docs	151 docs citations	151 times ranked	5662 citing authors

#	Article	IF	Citations
1	Some Aspects of Industrial Heap Bioleaching Technology: From Basics to Practice. Mineral Processing and Extractive Metallurgy Review, 2022, 43, 510-528.	2.6	24
2	Biochemical characterization of a novel azo reductase named BVU5 from the bacterial flora DDMZ1: application for decolorization of azo dyes. RSC Advances, 2022, 12, 1968-1981.	1.7	8
3	Effects of Inorganic Metabolites of Sulphate-Reducing Bacteria on the Corrosion of AZ31B and AZ63B Magnesium Alloy in 3.5 wt.% NaCl Solution. Materials, 2022, 15, 2212.	1.3	2
4	Bioleaching of Chalcopyrite Waste Rock in the Presence of the Copper Solvent Extractant LIX984N. Frontiers in Microbiology, 2022, 13, 820052.	1.5	1
5	Intensifying anoxic ammonium removal by manganese ores and granular active carbon fillings in constructed wetland-microbial fuel cells: Metagenomics reveals functional genes and microbial mechanisms. Bioresource Technology, 2022, 352, 127114.	4.8	23
6	Corrosion of an AZ31B Magnesium Alloy by Sulfate-Reducing Prokaryotes in a Mudflat Environment. Microorganisms, 2022, 10, 839.	1.6	6
7	Extracellular Polymeric Substances and Biocorrosion/Biofouling: Recent Advances and Future Perspectives. International Journal of Molecular Sciences, 2022, 23, 5566.	1.8	16
8	Evolution of microbial populations and impacts of microbial activity in the anaerobic-oxic-settling-anaerobic process for simultaneous sludge reduction and dyeing wastewater treatment. Journal of Cleaner Production, 2021, 282, 124403.	4.6	20
9	Sea urchin-like FeOOH functionalized electrochemical CNT filter for one-step arsenite decontamination. Journal of Hazardous Materials, 2021, 407, 124384.	6.5	26
10	Editorial: Bioleaching and Biocorrosion: Advances in Interfacial Processes. Frontiers in Microbiology, 2021, 12, 653029.	1.5	4
11	Role of GAC-MnO2 catalyst for triggering the extracellular electron transfer and boosting CH4 production in syntrophic methanogenesis. Chemical Engineering Journal, 2020, 383, 123211.	6.6	72
12	Co-metabolic degradation of refractory dye: A metagenomic and metaproteomic study. Environmental Pollution, 2020, 256, 113456.	3.7	26
13	Ultra-rapid detoxification of Sb(III) using a flow-through electro-fenton system. Chemosphere, 2020, 245, 125604.	4.2	21
14	One-step phosphite removal by an electroactive CNT filter functionalized with TiO2/CeOx nanocomposites. Science of the Total Environment, 2020, 710, 135514.	3.9	17
15	One-step Sb(III) decontamination using a bifunctional photoelectrochemical filter. Journal of Hazardous Materials, 2020, 389, 121840.	6.5	37
16	Rapid decontamination of tetracycline hydrolysis product using electrochemical CNT filter: Mechanism, impacting factors and pathways. Chemosphere, 2020, 244, 125525.	4.2	40
17	Systems biology of acidophile biofilms for efficient metal extraction. Scientific Data, 2020, 7, 215.	2.4	7
18	Newly Isolated Acidithiobacillus sp. Ksh From Kashen Copper Ore: Peculiarities of EPS and Colloidal Exopolysaccharide. Frontiers in Microbiology, 2020, 11, 1802.	1.5	11

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19	Interfacial alteration of pyrite caused by bioleaching. Hydrometallurgy, 2020, 195, 105356.	1.8	10
20	An Affordable Carbon Nanotube Filter Functionalized with Nanoscale Zerovalent Iron for One-Step Sb(III) Decontamination. Environmental Engineering Science, 2020, 37, 490-496.	0.8	1
21	Mitigation of Membrane Fouling Using an Electroactive Polyether Sulfone Membrane. Membranes, 2020, 10, 21.	1.4	10
22	Rapid and selective electrochemical transformation of ammonia to N₂ by substoichiometric TiO₂-based electrochemical system. RSC Advances, 2020, 10, 1219-1225.	1.7	12
23	Effect of Graphite on Copper Bioleaching from Waste Printed Circuit Boards. Minerals (Basel,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.8	11
24	Microbial synergy and stoichiometry in heap biooxidation of low-grade porphyry arsenic-bearing gold ore. Extremophiles, 2020, 24, 355-364.	0.9	7
25	The key factors and removal mechanisms of sulfadimethoxazole and oxytetracycline by coagulation. Environmental Science and Pollution Research, 2020, 27, 16167-16176.	2.7	9
26	Untangling the nitrate removal pathways for a constructed wetland- sponge iron coupled system and the impacts of sponge iron on a wetland ecosystem. Journal of Hazardous Materials, 2020, 393, 122407.	6.5	80
27	Reverse engineering directed gene regulatory networks from transcriptomics and proteomics data of biomining bacterial communities with approximate Bayesian computation and steady-state signalling simulations. BMC Bioinformatics, 2020, 21, 23.	1.2	9
28	Ultra-fast detoxification of Sb(III) using a flow-through TiO2-nanotubes-array-mesh based photoelectrochemical system. Chemical Engineering Journal, 2020, 387, 124155.	6.6	25
29	A Bifunctional Electroactive Ti4O7-Based Membrane System for Highly Efficient Ammonia Decontamination. Catalysts, 2020, 10, 383.	1.6	5
30	Recent advances on electroactive CNT-based membranes for environmental applications: The perfect match of electrochemistry and membrane separation. Chinese Chemical Letters, 2020, 31, 2539-2548.	4.8	103
31	Supported Atomically-Precise Gold Nanoclusters for Enhanced Flow-through Electro-Fenton. Environmental Science & Technology, 2020, 54, 5913-5921.	4.6	113
32	Interactions Between Cells of Sulfobacillus thermosulfidooxidans and Leptospirillum ferriphilum During Pyrite Bioleaching. Frontiers in Microbiology, 2020, 11, 44.	1.5	19
33	Mechanism and performance of trace metal removal by continuous-flow constructed wetlands coupled with a micro-electric field. Water Research, 2019, 164, 114937.	5.3	26
34	Nanoscale iron (oxyhydr)oxide-modified carbon nanotube filter for rapid and effective Sb(<scp>iii</scp>) removal. RSC Advances, 2019, 9, 18196-18204.	1.7	13
35	Sugar sources as Co-substrates promoting the degradation of refractory dye: A comparative study. Ecotoxicology and Environmental Safety, 2019, 184, 109613.	2.9	16
36	Boosting Cr(VI) detoxification and sequestration efficiency with carbon nanotube electrochemical filter functionalized with nanoscale polyaniline: Performance and mechanism. Science of the Total Environment, 2019, 695, 133926.	3.9	32

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37	Effect of Dielectric Barrier Discharge Cold Plasma on Pea Seed Growth. Journal of Agricultural and Food Chemistry, 2019, 67, 10813-10822.	2.4	50
38	Adhesion to Mineral Surfaces by Cells of Leptospirillum, Acidithiobacillus and Sulfobacillus from Armenian Sulfide Ores. Minerals (Basel, Switzerland), 2019, 9, 69.	0.8	21
39	Durability and performance of loofah sponge as carrier for wastewater treatment with high ammonium. Water Environment Research, 2019, 91, 581-587.	1.3	13
40	Engineering Reusable Sponge of Cobalt Heterostructures for Highly Efficient Organic Pollutants Degradation via Peroxymonosulfate Activation. ChemNanoMat, 2019, 5, 547-557.	1.5	7
41	A novel method for textile odor removal using engineered water nanostructures. RSC Advances, 2019, 9, 17726-17736.	1.7	15
42	Methanogenic Degradation of Long n -Alkanes Requires Fumarate-Dependent Activation. Applied and Environmental Microbiology, 2019, 85, .	1.4	22
43	Insight Into Interactions of Thermoacidophilic Archaea With Elemental Sulfur: Biofilm Dynamics and EPS Analysis. Frontiers in Microbiology, 2019, 10, 896.	1.5	28
44	A chloride-radical-mediated electrochemical filtration system for rapid and effective transformation of ammonia to nitrogen. Chemosphere, 2019, 229, 383-391.	4.2	55
45	Effect of sodium chloride on Leptospirillum ferriphilum DSM 14647T and Sulfobacillus thermosulfidooxidans DSM 9293T: Growth, iron oxidation activity and bioleaching of sulfidic metal ores. Minerals Engineering, 2019, 138, 52-59.	1.8	17
46	Direct microbial transformation of carbon dioxide to value-added chemicals: A comprehensive analysis and application potentials. Bioresource Technology, 2019, 288, 121401.	4.8	40
47	Recent advances on photocatalytic fuel cell for environmental applicationsâ€"The marriage of photocatalysis and fuel cells. Science of the Total Environment, 2019, 668, 966-978.	3.9	144
48	Proteomics Reveal Enhanced Oxidative Stress Responses and Metabolic Adaptation in Acidithiobacillus ferrooxidans Biofilm Cells on Pyrite. Frontiers in Microbiology, 2019, 10, 592.	1.5	49
49	Effects of deep geological environments for nuclear waste disposal on the hydrogen entry into titanium. International Journal of Hydrogen Energy, 2019, 44, 12200-12214.	3.8	16
50	Deep neural networks outperform human expert's capacity in characterizing bioleaching bacterial biofilm composition. Biotechnology Reports (Amsterdam, Netherlands), 2019, 22, e00321.	2.1	57
51	Extracellular Polymeric Substances from Geobacter sulfurreducens Biofilms in Microbial Fuel Cells. ACS Applied Materials & Interfaces, 2019, 11, 8961-8968.	4.0	65
52	Biofilm dynamics and EPS production of a thermoacidophilic bioleaching archaeon. New Biotechnology, 2019, 51, 21-30.	2.4	50
53	Fructose as an additional co-metabolite promotes refractory dye degradation: Performance and mechanism. Bioresource Technology, 2019, 280, 430-440.	4.8	35
54	Removal of active dyes by ultrafiltration membrane pre-deposited with a PSFM coagulant: Performance and mechanism. Chemosphere, 2019, 223, 204-210.	4.2	16

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55	A Dual-Functional Electroactive Filter Towards Simultaneously Sb(III) Oxidation and Sequestration. Journal of Visualized Experiments, 2019, , .	0.2	0
56	CFD simulations of fiber-fiber interaction in a hollow fiber membrane bundle: Fiber distance and position matters. Separation and Purification Technology, 2019, 209, 707-713.	3.9	25
57	The addition of copper accelerates the corrosion of steel via impeding biomineralized film formation of Bacillus subtilis in seawater. Corrosion Science, 2019, 149, 153-163.	3.0	21
58	Electroactive Modified Carbon Nanotube Filter for Simultaneous Detoxification and Sequestration of Sb(III). Environmental Science & Technology, 2019, 53, 1527-1535.	4.6	111
59	Investigation on adhesion of Sulfobacillus thermosulfidooxidans via atomic force microscopy equipped with mineral probes. Colloids and Surfaces B: Biointerfaces, 2019, 173, 639-646.	2.5	28
60	Performance and microbial protein expression during anaerobic treatment of alkali-decrement wastewater using a strengthened circulation anaerobic reactor. Bioresource Technology, 2019, 273, 40-48.	4.8	3
61	Anaerobic microbiologically influenced corrosion mechanisms interpreted using bioenergetics and bioelectrochemistry: A review. Journal of Materials Science and Technology, 2018, 34, 1713-1718.	5.6	326
62	Anaerobic biodegradation and decolorization of a refractory acid dye by a forward osmosis membrane bioreactor. Environmental Science: Water Research and Technology, 2018, 4, 272-280.	1.2	27
63	Multi-omics Reveals the Lifestyle of the Acidophilic, Mineral-Oxidizing Model Species Leptospirillum ferriphilum ^T. Applied and Environmental Microbiology, 2018, 84, .	1.4	71
64	Weak Iron Oxidation by Sulfobacillus thermosulfidooxidans Maintains a Favorable Redox Potential for Chalcopyrite Bioleaching. Frontiers in Microbiology, 2018, 9, 3059.	1.5	35
65	Recent advances in anaerobic biological processes for textile printing and dyeing wastewater treatment: a mini-review. World Journal of Microbiology and Biotechnology, 2018, 34, 165.	1.7	85
66	Insights into the biology of acidophilic members of the Acidiferrobacteraceae family derived from comparative genomic analyses. Research in Microbiology, 2018, 169, 608-617.	1.0	29
67	Comparative Analysis of Attachment to Chalcopyrite of Three Mesophilic Iron and/or Sulfur-Oxidizing Acidophiles. Minerals (Basel, Switzerland), 2018, 8, 406.	0.8	19
68	Ligand-Free Nano-Au Catalysts on Nitrogen-Doped Graphene Filter for Continuous Flow Catalysis. Nanomaterials, 2018, 8, 688.	1.9	5
69	Treatment of industrial dyeing wastewater with a pilot-scale strengthened circulation anaerobic reactor. Bioresource Technology, 2018, 264, 154-162.	4.8	63
70	Automated Microscopic Analysis of Metal Sulfide Colonization by Acidophilic Microorganisms. Applied and Environmental Microbiology, 2018, 84, .	1.4	23
71	Granulation process in an expanded granular sludge blanket (EGSB) reactor for domestic sewage treatment: Impact of extracellular polymeric substances compositions and evolution of microbial population. Bioresource Technology, 2018, 269, 153-161.	4.8	60
72	Study on Inactivation of <italic>Escherichia Coli</italic> by Double Dielectric Barrier Discharge. IEEE Transactions on Plasma Science, 2018, 46, 2026-2033.	0.6	5

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73	Lignite ash: Waste material or potential resource - Investigation of metal recovery and utilization options. Hydrometallurgy, 2017, 168, 141-152.	1.8	30
74	Mechanical and chemical studies on EPS from Sulfobacillus thermosulfidooxidans : from planktonic to biofilm cells. Colloids and Surfaces B: Biointerfaces, 2017, 153, 34-40.	2.5	67
75	Quantification of cell-substratum interactions by atomic force microscopy. Colloids and Surfaces B: Biointerfaces, 2017, 159, 639-643.	2.5	7
76	Bacterial and archaeal community distribution and stabilization of anaerobic sludge in a strengthen circulation anaerobic (SCA) reactor for municipal wastewater treatment. Bioresource Technology, 2017, 244, 750-758.	4.8	31
77	EPS Characterization of a Cell Wall-Lacking Archaeon Ferroplasma acidiphilum. Solid State Phenomena, 2017, 262, 434-438.	0.3	0
78	Enhancement of Biofilm Formation on Pyrite by Sulfobacillus thermosulfidooxidans. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	24
79	Effect of Extracellular Polymeric Substances on Surface Properties and Attachment Behavior of Acidithiobacillus ferrooxidans. Minerals (Basel, Switzerland), 2016, 6, 100.	0.8	26
80	Influence of Sulfobacillus thermosulfidooxidans on Initial Attachment and Pyrite Leaching by Thermoacidophilic Archaeon Acidianus sp. DSM 29099. Minerals (Basel, Switzerland), 2016, 6, 76.	0.8	7
81	Biofilm formation and interspecies interactions in mixed cultures of thermo-acidophilic archaea Acidianus spp. and Sulfolobus metallicus. Research in Microbiology, 2016, 167, 604-612.	1.0	15
82	The Biofilm Lifestyle of Acidophilic Metal/Sulfur-Oxidizing Microorganisms. Grand Challenges in Biology and Biotechnology, 2016, , 177-213.	2.4	13
83	Proteins dominate in the surface layers formed on materials exposed to extracellular polymeric substances from bacterial cultures. Biofouling, 2016, 32, 95-108.	0.8	36
84	Fungal degradation of elemental carbon in Carbonaceous gold ore. Hydrometallurgy, 2016, 160, 90-97.	1.8	28
85	Interactions of the extremely acidophilic archaeon Ferroplasma acidiphilum with acidophilic bacteria during pyrite bioleaching. Applied Environmental Biotechnology, 2016, 1, 43.	1.0	5
86	Sulfur Oxygenase Reductase (Sor) in the Moderately Thermoacidophilic Leaching Bacteria: Studies in Sulfobacillus thermosulfidooxidans and Acidithiobacillus caldus. Microorganisms, 2015, 3, 707-724.	1.6	29
87	Study and assessment of microbial communities in natural and commercial bioleaching systems. Minerals Engineering, 2015, 81, 167-172.	1.8	19
88	Systems Biology of Acidophile Biofilms for Efficient Metal Extraction. Advanced Materials Research, 2015, 1130, 312-315.	0.3	1
89	Biofilm Formation and Extracellular Polymeric Substances (EPS) Analysis by New Isolates of Leptospirillum, Acidithiobacillus and Sulfobacillus from Armenia. Advanced Materials Research, 2015, 1130, 153-156.	0.3	4
90	Influence of Different Growth Conditions on the Composition of Extracellular Polymeric Substances of Acidithiobacillus ferrooxidans and Acidithiobacillus ferrivorans Species. Advanced Materials Research, 2015, 1130, 11-14.	0.3	0

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91	Biofilm Formation and Stainless Steel Corrosion Analysis of Leptothrix discophora . Advanced Materials Research, 2015, 1130, 79-82.	0.3	3
92	Impact of entrained and dissolved organic chemicals associated with copper solvent extraction on Acidithiobacillus ferrooxidans. Hydrometallurgy, 2015, 157, 207-213.	1.8	17
93	Visualization and analysis of EPS glycoconjugates of the thermoacidophilic archaeon Sulfolobus metallicus. Applied Microbiology and Biotechnology, 2015, 99, 7343-7356.	1.7	39
94	Manipulation of pyrite colonization and leaching by iron-oxidizing Acidithiobacillus species. Applied Microbiology and Biotechnology, 2015, 99, 1435-1449.	1.7	54
95	Influence of extracellular polymeric substances (EPS) from Pseudomonas NCIMB 2021 on the corrosion behaviour of 70Cuâ€“30Ni alloy in seawater. Journal of Electroanalytical Chemistry, 2015, 737, 184-197.	1.9	37
96	Methanosarcina spelaei sp. nov., a methanogenic archaeon isolated from a floating biofilm of a subsurface sulphurous lake. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 3478-3484.	0.8	43
97	Polystyrene films as barrier layers for corrosion protection of copper and copper alloys. Bioelectrochemistry, 2014, 97, 7-14.	2.4	19
98	Impact of Desulfovibrio alaskensis biofilms on corrosion behaviour of carbon steel in marine environment. Bioelectrochemistry, 2014, 97, 52-60.	2.4	88
99	Characterization of exopolymeric substances (EPS) produced byAeromonas hydrophilaunder reducing conditions. Biofouling, 2014, 30, 501-511.	0.8	49
100	Aeromonas hydrophila produces conductive nanowires. Research in Microbiology, 2014, 165, 794-802.	1.0	22
101	Colonization and biofilm formation of the extremely acidophilic archaeon Ferroplasma acidiphilum. Hydrometallurgy, 2014, 150, 245-252.	1.8	46
102	Biofilm formation, communication and interactions of leaching bacteria during colonization of pyrite and sulfur surfaces. Research in Microbiology, 2014, 165, 773-781.	1.0	84
103	Methanobacterium movilense sp. nov., a hydrogenotrophic, secondary-alcohol-utilizing methanogen from the anoxic sediment of a subsurface lake. International Journal of Systematic and Evolutionary Microbiology, 2014, 64, 522-527.	0.8	44
104	Isolation and characterization of a novel Acidithiobacillus ferrivorans strain from the Chilean Altiplano: attachment and biofilm formation on pyrite at low temperature. Research in Microbiology, 2014, 165, 782-793.	1.0	20
105	Biomining: Metal Recovery from Ores with Microorganisms. Advances in Biochemical Engineering/Biotechnology, 2013, 141, 1-47.	0.6	97
106	Investigation and in situ visualisation of interfacial interactions of thermophilic microorganisms with metal-sulphides in a simulated heap environment. Minerals Engineering, 2013, 48, 100-107.	1.8	22
107	Attachment to Minerals and Biofilm Development of Extremely Acidophilic Archaea. Advanced Materials Research, 2013, 825, 103-106.	0.3	2
108	Shotgun proteomics study of early biofilm formation process ofAcidithiobacillus ferrooxidansATCC 23270 on pyrite. Proteomics, 2013, 13, 1133-1144.	1.3	57

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109	Progress in bioleaching: fundamentals and mechanisms of bacterial metal sulfide oxidationâ€”part A. Applied Microbiology and Biotechnology, 2013, 97, 7529-7541.	1.7	509
110	AHL signaling molecules with a large acyl chain enhance biofilm formation on sulfur and metal sulfides by the bioleaching bacterium Acidithiobacillus ferrooxidans. Applied Microbiology and Biotechnology, 2013, 97, 3729-3737.	1.7	94
111	Biofilm formation and corrosion resistance of Ni/SiC nanocomposite layers. International Journal of Materials Research, 2013, 104, 489-497.	0.1	7
112	Visualization of Attachment and Colonization of Pyrite Surfaces by a Novel Species of Acidianus. Advanced Materials Research, 2013, 825, 70-73.	0.3	3
113	Visualization of capsular polysaccharide induction in Acidithiobacillus ferrooxidans. Hydrometallurgy, 2012, 129-130, 82-89.	1.8	51
114	Adhesion forces between cells of Acidithiobacillus ferrooxidans, Acidithiobacillus thiooxidans or Leptospirillum ferrooxidans and chalcopyrite. Colloids and Surfaces B: Biointerfaces, 2012, 94, 95-100.	2.5	63
115	AFM & EFM study on attachment of acidophilic leaching organisms. Hydrometallurgy, 2010, 104, 370-375.	1.8	58
116	Mechanisms of Bioleaching and the Visualization of these by Combined AFM & EFM. Advanced Materials Research, 2009, 71-73, 297-302.	0.3	1
117	FISH Analysis of Bacterial Attachment to Copper Sulfides in Bioleaching Processes. Advanced Materials Research, 2009, 71-73, 329-332.	0.3	0
118	Evidence for Iron- and Sulfur-Oxidizing Bacteria and Archaea in a Currently Active Lignite Mining Area of Lusatia (Eastern Germany). Advanced Materials Research, 2009, 71-73, 97-100.	0.3	3
119	Attachment Behavior of Leaching Bacteria to Metal Sulfides Elucidated by Combined Atomic Force and Epifluorescence Microscopy. Advanced Materials Research, 2009, 71-73, 337-340.	0.3	1
120	Sulfur Oxygenase Reductase in Different Acidithiobacillus Caldus-Like Strains. Advanced Materials Research, 2009, 71-73, 239-242.	0.3	6
121	Comparative Study of Planktonic and Sessile Cells from Pure and Mixed Cultures of Acidithiobacillus Ferrooxidans and Acidiphilium Cryptum Growing on Pyrite. Advanced Materials Research, 2009, 71-73, 333-336.	0.3	2
122	17th International Biohydrometallurgy Symposium, IBS2007, Frankfurt a. M., Germany, 2â€“5 September 2007. Hydrometallurgy, 2008, 94, 1.	1.8	1
123	AHL communication is a widespread phenomenon in biomining bacteria and seems to be involved in mineral-adhesion efficiency. Hydrometallurgy, 2008, 94, 133-137.	1.8	61
124	Visualization of Acidithiobacillus ferrooxidans biofilms on pyrite by atomic force and epifluorescence microscopy under various experimental conditions. Hydrometallurgy, 2008, 94, 127-132.	1.8	22
125	First evaluation of the applicability of microbial extracellular polymeric substances for corrosion protection of metal substrates. Electrochimica Acta, 2008, 54, 91-99.	2.6	69
126	Properties of thiols required for sulfur dioxygenase activity at acidic pH. Journal of Sulfur Chemistry, 2008, 29, 293-302.	1.0	9

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127	Novel Combination of Atomic Force Microscopy and Epifluorescence Microscopy for Visualization of Leaching Bacteria on Pyrite. Applied and Environmental Microbiology, 2008, 74, 410-415.	1.4	73
128	Long-term evaluation of acid rock drainage mitigation measures in large lysimeters. Journal of Geochemical Exploration, 2007, 92, 205-211.	1.5	34
129	Extracellular polymeric substances mediate bioleaching/biocorrosion via interfacial processes involving iron(III) ions and acidophilic bacteria. Research in Microbiology, 2006, 157, 49-56.	1.0	340
130	The sulfane sulfur of persulfides is the actual substrate of the sulfur-oxidizing enzymes from Acidithiobacillus and Acidiphilium spp.. Microbiology (United Kingdom), 2003, 149, 1699-1710.	0.7	252
131	(Bio)chemistry of bacterial leachingâ€"direct vs. indirect bioleaching. Hydrometallurgy, 2001, 59, 159-175.	1.8	631
132	Large-scale experiments for microbiological evaluation of measures for safeguarding sulfidic mine waste. Waste Management, 2001, 21, 139-146.	3.7	13
133	Bacterial and chemical oxidation of pyritic mine tailings at low temperatures. Journal of Contaminant Hydrology, 2000, 41, 225-238.	1.6	92
134	Bacterial Leaching of Metal Sulfides Proceeds by Two Indirect Mechanisms via Thiosulfate or via Polysulfides and Sulfur. Applied and Environmental Microbiology, 1999, 65, 319-321.	1.4	678
135	Importance of Extracellular Polymeric Substances from Thiobacillus ferrooxidans for Bioleaching. Applied and Environmental Microbiology, 1998, 64, 2743-2747.	1.4	407
136	Physiological characteristics ofthiobacillus ferrooxidansandleptospirillum ferrooxidansand physicochemical factors influence microbial metal leaching. Geomicrobiology Journal, 1992, 10, 193-206.	1.0	80
137	Evaluation of Leptospirillum ferrooxidans for Leaching. Applied and Environmental Microbiology, 1992, 58, 85-92.	1.4	216
138	Molecular and Morphological Characterization of Cultures from the Extreme Environmental Area of Copahue Volcano-Argentina. Advanced Materials Research, 0, 71-73, 93-96.	0.3	2
139	Characterization of Biofilm Formation by the Bioleaching Acidophilic Bacterium <i>Acidithiobacillus Ferrooxidans</i> by a Microarray Transcriptome Analysis. Advanced Materials Research, 0, 71-73, 175-178.	0.3	20
140	New Insights into the Biofilm Lifestyle and Metabolism of <i>Acidithiobacillus</i> Species from Analysis of High Throughput Proteomic Data. Advanced Materials Research, 0, 825, 111-114.	0.3	0
141	Copper Recovery by Bioleaching of Chalcopyrite: A Microcalorimetric Approach for the Fast Determination of Bioleaching Activity. Advanced Materials Research, 0, 825, 322-325.	0.3	2
142	Conductive Filaments Produced by <i>Aeromonas hydrophila</i>. Advanced Materials Research, 0, 825, 210-213.	0.3	6
143	Microbial Community Composition on Lignite before and after the Addition of Phosphate Mining Wastes. Advanced Materials Research, 0, 825, 42-45.	0.3	2
144	Biofilm Formation, Communication and Interactions of Mesophilic Leaching Bacteria during Pyrite Oxidation. Advanced Materials Research, 0, 825, 107-110.	0.3	1

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145	Initial Attachment and Biofilm Formation of a Novel Crenarchaeote on Mineral Sulfides. Advanced Materials Research, 0, 1130, 127-130.	0.3	2
146	Reactive Oxygen Species Influence Biofilm Formation of Acidophilic Mineral-Oxidizing Bacteria on Pyrite. Advanced Materials Research, 0, 1130, 118-122.	0.3	3
147	Biofilm Formation of <i>Sulfobacillus</i> <i>thermosulfidooxidans</i> on Pyrite in the Presence of <i>Leptospirillum ferriphilum</i>. Advanced Materials Research, 0, 1130, 141-144.	0.3	2
148	Microorganisms Oxidize Iron (II) Ions in the Presence of High Concentrations of Sodium Chloride - Potentially Useful for Bioleaching. Solid State Phenomena, 0, 262, 364-367.	0.3	6
149	Bioleaching of Pyrite by Iron-Oxidizing Acidophiles under the Influence of Reactive Oxygen Species. Solid State Phenomena, 0, 262, 372-375.	0.3	0