Sören Bellenberg

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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.	3.6	94
2	Biofilm formation, communication and interactions of leaching bacteria during colonization of pyrite and sulfur surfaces. Research in Microbiology, 2014, 165, 773-781.	2.1	84
3	Multi-omics Reveals the Lifestyle of the Acidophilic, Mineral-Oxidizing Model Species Leptospirillum ferriphilum ^T . Applied and Environmental Microbiology, 2018, 84, .	3.1	71
4	Shotgun proteomics study of early biofilm formation process of <i>Acidithiobacillus ferrooxidans</i> ATCC 23270 on pyrite. Proteomics, 2013, 13, 1133-1144.	2.2	57
5	Deep neural networks outperform human expert's capacity in characterizing bioleaching bacterial biofilm composition. Biotechnology Reports (Amsterdam, Netherlands), 2019, 22, e00321.	4.4	57
6	Manipulation of pyrite colonization and leaching by iron-oxidizing Acidithiobacillus species. Applied Microbiology and Biotechnology, 2015, 99, 1435-1449.	3.6	54
7	Visualization of capsular polysaccharide induction in Acidithiobacillus ferrooxidans. Hydrometallurgy, 2012, 129-130, 82-89.	4.3	51
8	Use of lectins to in situ visualize glycoconjugates of extracellular polymeric substances in acidophilic archaeal biofilms. Microbial Biotechnology, 2015, 8, 448-461.	4.2	49
9	Proteomics Reveal Enhanced Oxidative Stress Responses and Metabolic Adaptation in Acidithiobacillus ferrooxidans Biofilm Cells on Pyrite. Frontiers in Microbiology, 2019, 10, 592.	3.5	49
10	Colonization and biofilm formation of the extremely acidophilic archaeon Ferroplasma acidiphilum. Hydrometallurgy, 2014, 150, 245-252.	4.3	46
11	Visualization and analysis of EPS glycoconjugates of the thermoacidophilic archaeon Sulfolobus metallicus. Applied Microbiology and Biotechnology, 2015, 99, 7343-7356.	3.6	39
12	Weak Iron Oxidation by Sulfobacillus thermosulfidooxidans Maintains a Favorable Redox Potential for Chalcopyrite Bioleaching. Frontiers in Microbiology, 2018, 9, 3059.	3.5	35
13	Lignite ash: Waste material or potential resource - Investigation of metal recovery and utilization options. Hydrometallurgy, 2017, 168, 141-152.	4.3	30
14	Insights into the biology of acidophilic members of the Acidiferrobacteraceae family derived from comparative genomic analyses. Research in Microbiology, 2018, 169, 608-617.	2.1	29
15	Automated Microscopic Analysis of Metal Sulfide Colonization by Acidophilic Microorganisms. Applied and Environmental Microbiology, 2018, 84, .	3.1	23
16	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
17	Biofilm formation and interspecies interactions in mixed cultures of thermo-acidophilic archaea Acidianus spp. and Sulfolobus metallicus. Research in Microbiology, 2016, 167, 604-612.	2.1	15
18	The Biofilm Lifestyle of Acidophilic Metal/Sulfur-Oxidizing Microorganisms. Grand Challenges in Biology and Biotechnology, 2016, , 177-213.	2.4	13

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19	Change of Extracellular Polymeric Substances Composition of Thiobacillus thioparus in Presence of Sulfur and Steel. Journal of Microbial & Biochemical Technology, 2013, 05, .	0.2	11
20	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.	2.6	9
21	Systems biology of acidophile biofilms for efficient metal extraction. Scientific Data, 2020, 7, 215.	5.3	7
22	Towards Bioleaching of a Vanadium Containing Magnetite for Metal Recovery. Frontiers in Microbiology, 2021, 12, 693615.	3.5	7
23	Diffusible signal factor signaling controls bioleaching activity and niche protection in the acidophilic, mineral-oxidizing leptospirilli. Scientific Reports, 2021, 11, 16275.	3.3	7
24	Acid Rock Drainage or Not—Oxidative vs. Reductive Biofilms—A Microbial Question. Minerals (Basel,) Tj ETQq0	0.0 rgBT	/Qverlock 1
25	Reactive Oxygen Species Influence Biofilm Formation of Acidophilic Mineral-Oxidizing Bacteria on Pyrite. Advanced Materials Research, 0, 1130, 118-122.	0.3	3

26	Interspecies Interactions of Metal-Oxidizing Thermo-Acidophilic Archaea <i>Acidianus</i> and <i>Sulfolobus</i> . Advanced Materials Research, 0, 1130, 105-108.	0.3	3
27	Comparative Study of Planktonic and Sessile Cells from Pure and Mixed Cultures of <i>Acidithiobacillus Ferrooxidans</i> and <i>Acidiphilium Cryptum</i> Growing on Pyrite. Advanced Materials Research, 2009, 71-73, 333-336.	0.3	2
28	Attachment to Minerals and Biofilm Development of Extremely Acidophilic Archaea. Advanced Materials Research, 2013, 825, 103-106.	0.3	2
29	Microbial Community Composition on Lignite before and after the Addition of Phosphate Mining Wastes . Advanced Materials Research, 0, 825, 42-45.	0.3	2
30	Initial Attachment and Biofilm Formation of a Novel Crenarchaeote on Mineral Sulfides. Advanced Materials Research, 0, 1130, 127-130.	0.3	2
31	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
32	Biofilm Formation, Communication and Interactions of Mesophilic Leaching Bacteria during Pyrite Oxidation. Advanced Materials Research, 0, 825, 107-110.	0.3	1
33	Biotechnological Recovery of Valuable Metals from Lignite Ash. Advanced Materials Research, 2015, 1130, 664-667.	0.3	1
34	16S rRNA and Multilocus Phylogenetic Analysis of the Iron Oxidizing Acidophiles of the <i>Acidiferrobacteraceae</i> Family. Solid State Phenomena, 2017, 262, 339-343.	0.3	1
35	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
36	Influence of Different Growth Conditions on the Composition of Extracellular Polymeric Substances of <i>Acidithiobacillus ferrooxidans</i> and <i>Acidithiobacillus ferrivorans </i> Species. Advanced Materials Research, 2015, 1130, 11-14.	0.3	0

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37	Bioleaching of Pyrite by Iron-Oxidizing Acidophiles under the Influence of Reactive Oxygen Species. Solid State Phenomena, 0, 262, 372-375.	0.3	0