

Søren Bellenberg

List of Publications by Year in descending order

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37
papers

892
citations

643344

15
h-index

536525

29
g-index

39
all docs

39
docs citations

39
times ranked

880
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards Bioleaching of a Vanadium Containing Magnetite for Metal Recovery. <i>Frontiers in Microbiology</i> , 2021, 12, 693615.	1.5	7
2	Diffusible signal factor signaling controls bioleaching activity and niche protection in the acidophilic, mineral-oxidizing leptospirilli. <i>Scientific Reports</i> , 2021, 11, 16275.	1.6	7
3	Systems biology of acidophile biofilms for efficient metal extraction. <i>Scientific Data</i> , 2020, 7, 215.	2.4	7
4	Reverse engineering directed gene regulatory networks from transcriptomics and proteomics data of biomining bacterial communities with approximate Bayesian computation and steady-state signalling simulations. <i>BMC Bioinformatics</i> , 2020, 21, 23.	1.2	9
5	Proteomics Reveal Enhanced Oxidative Stress Responses and Metabolic Adaptation in <i>Acidithiobacillus ferrooxidans</i> Biofilm Cells on Pyrite. <i>Frontiers in Microbiology</i> , 2019, 10, 592.	1.5	49
6	Deep neural networks outperform human expert's capacity in characterizing bioleaching bacterial biofilm composition. <i>Biotechnology Reports (Amsterdam, Netherlands)</i> , 2019, 22, e00321.	2.1	57
7	Multi-omics Reveals the Lifestyle of the Acidophilic, Mineral-Oxidizing Model Species <i>Leptospirillum ferriphilum</i> . <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	71
8	Weak Iron Oxidation by <i>Sulfobacillus thermosulfidooxidans</i> Maintains a Favorable Redox Potential for Chalcopyrite Bioleaching. <i>Frontiers in Microbiology</i> , 2018, 9, 3059.	1.5	35
9	Insights into the biology of acidophilic members of the <i>Acidiferrobacteraceae</i> family derived from comparative genomic analyses. <i>Research in Microbiology</i> , 2018, 169, 608-617.	1.0	29
10	Automated Microscopic Analysis of Metal Sulfide Colonization by Acidophilic Microorganisms. <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	23
11	Acid Rock Drainage or Not? Oxidative vs. Reductive Biofilms: A Microbial Question. <i>Minerals (Basel)</i> , 2018, 8, 1078-1085.	1.0	23
12	Lignite ash: Waste material or potential resource - Investigation of metal recovery and utilization options. <i>Hydrometallurgy</i> , 2017, 168, 141-152.	1.8	30
13	16S rRNA and Multilocus Phylogenetic Analysis of the Iron Oxidizing Acidophiles of the <i>Acidiferrobacteraceae</i> Family. <i>Solid State Phenomena</i> , 2017, 262, 339-343.	0.3	1
14	Biofilm formation and interspecies interactions in mixed cultures of thermo-acidophilic archaea <i>Acidianus</i> spp. and <i>Sulfolobus metallicus</i> . <i>Research in Microbiology</i> , 2016, 167, 604-612.	1.0	15
15	The Biofilm Lifestyle of Acidophilic Metal/Sulfur-Oxidizing Microorganisms. <i>Grand Challenges in Biology and Biotechnology</i> , 2016, , 177-213.	2.4	13
16	Biotechnological Recovery of Valuable Metals from Lignite Ash. <i>Advanced Materials Research</i> , 2015, 1130, 664-667.	0.3	1
17	Influence of Different Growth Conditions on the Composition of Extracellular Polymeric Substances of <i>Acidithiobacillus ferrooxidans</i> and <i>Acidithiobacillus ferrivorans</i> Species. <i>Advanced Materials Research</i> , 2015, 1130, 11-14.	0.3	0
18	Visualization and analysis of EPS glycoconjugates of the thermoacidophilic archaeon <i>Sulfolobus metallicus</i> . <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 7343-7356.	1.7	39

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19	Use of lectins to in situ visualize glycoconjugates of extracellular polymeric substances in acidophilic archaeal biofilms. <i>Microbial Biotechnology</i> , 2015, 8, 448-461.	2.0	49
20	Manipulation of pyrite colonization and leaching by iron-oxidizing <i>Acidithiobacillus</i> species. <i>Applied Microbiology and Biotechnology</i> , 2015, 99, 1435-1449.	1.7	54
21	Colonization and biofilm formation of the extremely acidophilic archaeon <i>Ferroplasma acidiphilum</i> . <i>Hydrometallurgy</i> , 2014, 150, 245-252.	1.8	46
22	Biofilm formation, communication and interactions of leaching bacteria during colonization of pyrite and sulfur surfaces. <i>Research in Microbiology</i> , 2014, 165, 773-781.	1.0	84
23	Attachment to Minerals and Biofilm Development of Extremely Acidophilic Archaea. <i>Advanced Materials Research</i> , 2013, 825, 103-106.	0.3	2
24	Shotgun proteomics study of early biofilm formation process of <i>Acidithiobacillus ferrooxidans</i> ATCC 23270 on pyrite. <i>Proteomics</i> , 2013, 13, 1133-1144.	1.3	57
25	AHL signaling molecules with a large acyl chain enhance biofilm formation on sulfur and metal sulfides by the bioleaching bacterium <i>Acidithiobacillus ferrooxidans</i> . <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 3729-3737.	1.7	94
26	Change of Extracellular Polymeric Substances Composition of <i>Thiobacillus thioparus</i> in Presence of Sulfur and Steel. <i>Journal of Microbial & Biochemical Technology</i> , 2013, 05, .	0.2	11
27	Visualization of capsular polysaccharide induction in <i>Acidithiobacillus ferrooxidans</i> . <i>Hydrometallurgy</i> , 2012, 129-130, 82-89.	1.8	51
28	Attachment Behavior of Leaching Bacteria to Metal Sulfides Elucidated by Combined Atomic Force and Epifluorescence Microscopy. <i>Advanced Materials Research</i> , 2009, 71-73, 337-340.	0.3	1
29	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. <i>Advanced Materials Research</i> , 2009, 71-73, 333-336.	0.3	2
30	Characterization of Biofilm Formation by the Bioleaching Acidophilic Bacterium <i>Acidithiobacillus Ferrooxidans</i> ; by a Microarray Transcriptome Analysis. <i>Advanced Materials Research</i> , 0, 71-73, 175-178.	0.3	20
31	New Insights into the Biofilm Lifestyle and Metabolism of <i>Acidithiobacillus</i> Species from Analysis of High Throughput Proteomic Data. <i>Advanced Materials Research</i> , 0, 825, 111-114.	0.3	0
32	Microbial Community Composition on Lignite before and after the Addition of Phosphate Mining Wastes. <i>Advanced Materials Research</i> , 0, 825, 42-45.	0.3	2
33	Biofilm Formation, Communication and Interactions of Mesophilic Leaching Bacteria during Pyrite Oxidation. <i>Advanced Materials Research</i> , 0, 825, 107-110.	0.3	1
34	Initial Attachment and Biofilm Formation of a Novel Crenarchaeote on Mineral Sulfides. <i>Advanced Materials Research</i> , 0, 1130, 127-130.	0.3	2
35	Reactive Oxygen Species Influence Biofilm Formation of Acidophilic Mineral-Oxidizing Bacteria on Pyrite. <i>Advanced Materials Research</i> , 0, 1130, 118-122.	0.3	3
36	Interspecies Interactions of Metal-Oxidizing Thermo-Acidophilic Archaea <i>Acidianus</i> and <i>Sulfolobus</i> . <i>Advanced Materials Research</i> , 0, 1130, 105-108.	0.3	3

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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