

# Sabrina Hedrich

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

2,528  
citations

279701

23  
h-index

214721

47  
g-index

64  
all docs

64  
docs citations

64  
times ranked

2728  
citing authors

#	ARTICLE	IF	CITATIONS
1	Prokaryotic communities in the historic silver mine Reiche Zeche. <i>Extremophiles</i> , 2022, 26, 2.	0.9	2
2	Extraction of REEs from Blast Furnace Slag by <i>Gluconobacter oxydans</i> . <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 701.	0.8	5
3	Distribution of Acidophilic Microorganisms in Natural and Man-made Acidic Environments. <i>Current Issues in Molecular Biology</i> , 2021, 40, 25-48.	1.0	31
4	Distribution of scandium in red mud and extraction using <i>Gluconobacter oxydans</i> . <i>Hydrometallurgy</i> , 2021, 202, 105621.	1.8	17
5	<i>Sulfobacillus harzensis</i> sp. nov., an acidophilic bacterium inhabiting mine tailings from a polymetallic mine. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2021, 71, .	0.8	10
6	Corrigendum to "Distribution of scandium in red mud and extraction using <i>Gluconobacter oxydans</i> " [Hydrometallurgy 202 (2021) 105621]. <i>Hydrometallurgy</i> , 2021, 203, 105696.	1.8	0
7	Ferric Iron Reduction in Extreme Acidophiles. <i>Frontiers in Microbiology</i> , 2021, 12, 818414.	1.5	19
8	Sticky Bacteria: Understanding the Behavior of a D-Galactose Adapted Consortium of Acidophilic Chemolithotroph Bacteria and Their Attachment on a Concentrate of Polymetallic Mineral. <i>Frontiers in Microbiology</i> , 2021, 12, 767639.	1.5	1
9	Bioleaching of cobalt from Cu/Co-rich sulfidic mine tailings from the polymetallic Rammelsberg mine, Germany. <i>Hydrometallurgy</i> , 2020, 197, 105443.	1.8	46
10	A Model of Aerobic and Anaerobic Metabolism of Hydrogen in the Extremophile <i>Acidithiobacillus ferrooxidans</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 610836.	1.5	25
11	Bioprocessing of oxidized platinum group element (PGE) ores as pre-treatment for efficient chemical extraction of PGE. <i>Hydrometallurgy</i> , 2020, 196, 105419.	1.8	12
12	<i>Acidiferrimicrobium australe</i> gen. nov., sp. nov., an acidophilic and obligately heterotrophic, member of the Actinobacteria that catalyses dissimilatory oxido-reduction of iron isolated from metal-rich acidic water in Chile. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 3348-3354.	0.8	18
13	Enrichment and isolation of acid-tolerant sulfate-reducing microorganisms in the anoxic, acidic hot spring sediments from Copahue volcano, Argentina. <i>FEMS Microbiology Ecology</i> , 2019, 95, .	1.3	15
14	Performance of a sulfidogenic bioreactor inoculated with indigenous acidic communities for treating an extremely acidic mine water. <i>Minerals Engineering</i> , 2019, 131, 370-375.	1.8	24
15	Mineralogical distribution of base metal sulfides in processing products of black shale-hosted Kupferschiefer-type ore. <i>Minerals Engineering</i> , 2018, 119, 23-30.	1.8	10
16	Effect of elevated pressure on ferric iron reduction coupled to sulfur oxidation by biomining microorganisms. <i>Hydrometallurgy</i> , 2018, 178, 215-223.	1.8	14
17	Enhanced chalcopyrite dissolution in stirred tank reactors by temperature increase during bioleaching. <i>Hydrometallurgy</i> , 2018, 179, 125-131.	1.8	51
18	Implementation of biological and chemical techniques to recover metals from copper-rich leach solutions. <i>Hydrometallurgy</i> , 2018, 179, 274-281.	1.8	20

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19	Optimierung der Chalkopyrit-Biolaugung in 1/4hrreaktoren durch stufenweise Temperaturerhöhung. Chemie-Ingenieur-Technik, 2018, 90, 1257-1257.	0.4	0
20	CO2 mass transfer in bioleaching reactors: CO2 enrichment applied to a complex copper concentrate. Hydrometallurgy, 2018, 180, 277-286.	1.8	15
21	Lignite ash: Waste material or potential resource - Investigation of metal recovery and utilization options. Hydrometallurgy, 2017, 168, 141-152.	1.8	30
22	Reduction of Iron(III) Ions at Elevated Pressure by Acidophilic Microorganisms. Solid State Phenomena, 2017, 262, 88-92.	0.3	4
23	Selective Chemical and Biological Metal Recovery from Cu-Rich Bioleaching Solutions. Solid State Phenomena, 2017, 262, 107-112.	0.3	2
24	Metallgewinnung mittels Geobiotechnologie. Chemie-Ingenieur-Technik, 2017, 89, 29-39.	0.4	10
25	Microbial Community Analysis inside a Biooxidation Heap for Gold Recovery in Equador. Solid State Phenomena, 2017, 262, 135-138.	0.3	3
26	Indirect Redox Transformations of Iron, Copper, and Chromium Catalyzed by Extremely Acidophilic Bacteria. Frontiers in Microbiology, 2017, 8, 211.	1.5	39
27	Quantitative Monitoring of Microbial Species during Bioleaching of a Copper Concentrate. Frontiers in Microbiology, 2016, 07, 2044.	1.5	73
28	Solid and liquid media for isolating and cultivating acidophilic and acid-tolerant sulfate-reducing bacteria. FEMS Microbiology Letters, 2016, 363, fnw083.	0.7	78
29	Isolation and characterisation of mineral-oxidising <i>Acidibacillus</i> spp. from mine sites and geothermal environments in different global locations. Research in Microbiology, 2016, 167, 613-623.	1.0	32
30	Biotechnological Recovery of Valuable Metals from Lignite Ash. Advanced Materials Research, 2015, 1130, 664-667.	0.3	1
31	Bioleaching of Kupferschiefer blackshale – A review including perspectives of the Ecometals project. Minerals Engineering, 2015, 75, 116-125.	1.8	33
32	Desulfosporosinus acididurans sp. nov.: an acidophilic sulfate-reducing bacterium isolated from acidic sediments. Extremophiles, 2015, 19, 39-47.	0.9	128
33	Selektive Metallgewinnung im Rahmen des Projektes EcoMetals - Innovative hocheffiziente biohydrometallurgische Prozesse zur Gewinnung strategischer und seltener Metalle. Chemie-Ingenieur-Technik, 2014, 86, 1481-1481.	0.4	0
34	Insights into the pathways of iron- and sulfur-oxidation, and biofilm formation from the chemolithotrophic acidophile Acidithiobacillus ferrivorans CF27. Research in Microbiology, 2014, 165, 753-760.	1.0	38
35	Remediation and Selective Recovery of Metals from Acidic Mine Waters Using Novel Modular Bioreactors. Environmental Science & Technology, 2014, 48, 12206-12212.	4.6	101
36	Uncovering a Microbial Enigma: Isolation and Characterization of the Streamer-Generating, Iron-Oxidizing, Acidophilic Bacterium <i>Ferroplasma myxofaciens</i> . Applied and Environmental Microbiology, 2014, 80, 672-680.	1.4	137

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37	Biomining: Metal Recovery from Ores with Microorganisms. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2013, 141, 1-47.	0.6	97
38	<i>Acidocella aromatica</i> sp. nov.: an acidophilic heterotrophic alphaproteobacterium with unusual phenotypic traits. <i>Extremophiles</i> , 2013, 17, 841-850.	0.9	48
39	Aerobic and anaerobic oxidation of hydrogen by acidophilic bacteria. <i>FEMS Microbiology Letters</i> , 2013, 349, n/a-n/a.	0.7	64
40	Genome Analysis of the Psychrotolerant Acidophile <i>Acidithiobacillus ferrivorans</i> CF27. <i>Advanced Materials Research</i> , 2013, 825, 145-148.	0.3	4
41	<i>Acidithiobacillus ferridurans</i> sp. nov., an acidophilic iron-, sulfur- and hydrogen-metabolizing chemolithotrophic gammaproteobacterium. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2013, 63, 4018-4025.	0.8	110
42	Microbial Diversity in Acidic Anaerobic Sediments at the Geothermal Caviahué-Copahué System, Argentina. <i>Advanced Materials Research</i> , 2013, 825, 7-10.	0.3	5
43	Evidence for Widespread Dissimilatory Hydrogen Metabolism among Acidophilic Bacteria. <i>Advanced Materials Research</i> , 2013, 825, 202-205.	0.3	0
44	New microbiological strategies that enable the selective recovery and recycling of metals from acid mine drainage and mine process waters. <i>Mineralogical Magazine</i> , 2012, 76, 2683-2692.	0.6	21
45	Elucidation of carbon transfer in a mixed culture of <i>Acidiphilium cryptum</i> and <i>Acidithiobacillus ferrooxidans</i> using protein-based stable isotope probing. <i>Journal of Integrated OMICS</i> , 2012, 2, .	0.5	5
46	A modular continuous flow reactor system for the selective bio-oxidation of iron and precipitation of schwertmannite from mine-impacted waters. <i>Bioresource Technology</i> , 2012, 106, 44-49.	4.8	62
47	Redox Transformations of Iron at Extremely Low pH: Fundamental and Applied Aspects. <i>Frontiers in Microbiology</i> , 2012, 3, 96.	1.5	317
48	The iron-oxidizing proteobacteria. <i>Microbiology (United Kingdom)</i> , 2011, 157, 1551-1564.	0.7	495
49	Schwertmannite Formation Adjacent to Bacterial Cells in a Mine Water Treatment Plant and in Pure Cultures of <i>Ferroplasma myxofaciens</i> . <i>Environmental Science &amp; Technology</i> , 2011, 45, 7685-7692.	4.6	49
50	<i>Acidiferrobacter thiooxydans</i> , gen. nov. sp. nov.; an acidophilic, thermo-tolerant, facultatively anaerobic iron- and sulfur-oxidizer of the family Ectothiorhodospiraceae. <i>Extremophiles</i> , 2011, 15, 271-279.	0.9	108
51	Bacterial Diversity in a Mine Water Treatment Plant. <i>Applied and Environmental Microbiology</i> , 2009, 75, 858-861.	1.4	70
52	Microbial Diversity in a Pilot Plant for Producing Iron Hydroxysulfates. <i>Advanced Materials Research</i> , 2007, 20-21, 527-530.	0.3	1
53	Characterization of New Iron Oxidizing Bacteria from an Acid Mine Water Treatment Plant. <i>Advanced Materials Research</i> , 2007, 20-21, 582-582.	0.3	0
54	Isolation of Novel Iron-Oxidizing Bacteria from an Acid Mine Water Treatment Plant. <i>Advanced Materials Research</i> , 0, 71-73, 125-128.	0.3	9

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55	Selective Metal Removal from Scandinavian Mine Waters Using Novel Biomineralization Technologies. <i>Advanced Materials Research</i> , 0, 825, 479-482.	0.3	4
56	Reduction and Complexation of Copper in a Novel Bioreduction System Developed to Recover Base Metals from Mine Process Waters. <i>Advanced Materials Research</i> , 0, 825, 483-486.	0.3	3
57	Metal Recovery and Exploitation of Lignite Ashes by Combined Physicochemical and Biotechnological Approaches. <i>Advanced Materials Research</i> , 0, 1130, 296-299.	0.3	0
58	Characteristics of <i>Acidibacillus</i> Spp.: A Novel Genus of Acidophilic Iron-Oxidising <i>Firmicutes</i> . <i>Advanced Materials Research</i> , 0, 1130, 36-39.	0.3	5
59	Development of a Strategy for Selective Metal Recovery from Pregnant Leach Solutions of Kupferschiefer Bioleaching. <i>Advanced Materials Research</i> , 0, 1130, 255-258.	0.3	1
60	Comparative Bioleaching and Mineralogical Characterization of Black Shale-Hosted Ores and Corresponding Flotation Concentrates. <i>Solid State Phenomena</i> , 0, 262, 139-142.	0.3	0
61	Effect of Temperature Ramping on Stirred Tank Bioleaching of a Copper Concentrate. <i>Solid State Phenomena</i> , 0, 262, 3-6.	0.3	3
62	Influence of CO <sub>2</sub> Supplementation on the Bioleaching of a Copper Concentrate from Kupferschiefer Ore. <i>Solid State Phenomena</i> , 0, 262, 242-245.	0.3	3