

Christopher G Weisener

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

1,364
citations

304743

22
h-index

361022

35
g-index

51
all docs

51
docs citations

51
times ranked

1422
citing authors

#	ARTICLE	IF	CITATIONS
1	Partitioning of platinum-group elements and Au in the Fe?Ni?Cu?S system: experiments on the fractional crystallization of sulfide melt. <i>Contributions To Mineralogy and Petrology</i> , 1993, 115, 36-44.	3.1	177
2	Nitrate assimilation, dissimilatory nitrate reduction to ammonium, and denitrification coexist in <i>Pseudomonas putida</i> Y-9 under aerobic conditions. <i>Bioresource Technology</i> , 2020, 312, 123597.	9.6	84
3	Geochemical effects of oxidation products and framboidal pyrite oxidation in acid mine drainage prediction techniques. <i>Applied Geochemistry</i> , 2004, 19, 1953-1974.	3.0	76
4	A comparison of the kinetics and mechanism of acid leaching of sphalerite containing low and high concentrations of iron. <i>International Journal of Mineral Processing</i> , 2004, 74, 239-249.	2.6	72
5	An investigation of the Cu (II) adsorption mechanism on pyrite by ARXPS and SIMS. <i>Minerals Engineering</i> , 2000, 13, 1329-1340.	4.3	71
6	Kinetics and mechanisms of the leaching of low Fe sphalerite. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 823-830.	3.9	70
7	Cu(II) adsorption mechanism on pyrite: an XAFS and XPS study. <i>Surface and Interface Analysis</i> , 2000, 30, 454-458.	1.8	68
8	Understanding biogeochemical gradients of sulfur, iron and carbon in an oil sands tailings pond. <i>Chemical Geology</i> , 2014, 382, 44-53.	3.3	43
9	Field Column Study Using Zerovalent Iron for Mercury Removal from Contaminated Groundwater. <i>Environmental Science & Technology</i> , 2005, 39, 6306-6312.	10.0	42
10	Preferential oxidation of pyrite as a function of morphology and relict texture. <i>New Zealand Journal of Geology, and Geophysics</i> , 2010, 53, 167-176.	1.8	38
11	Simultaneous Release of Fe and As during the Reductive Dissolution of Pb&As Jarosite by <i>Shewanella putrefaciens</i> CN32. <i>Environmental Science & Technology</i> , 2012, 46, 12823-12831.	10.0	35
12	Microbial reduction of ferrous arsenate: Biogeochemical implications for arsenic mobilization. <i>Applied Geochemistry</i> , 2009, 24, 2332-2341.	3.0	33
13	Intracellular Precipitation of Pb by <i>Shewanella putrefaciens</i> CN32 during the Reductive Dissolution of Pb-Jarosite. <i>Environmental Science & Technology</i> , 2009, 43, 8086-8091.	10.0	32
14	Bioreactor studies predict whole microbial population dynamics in oil sands tailings ponds. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 3215-3224.	3.6	30
15	Novel insights into freshwater hydrocarbon-rich sediments using metatranscriptomics: Opening the black box. <i>Water Research</i> , 2018, 136, 1-11.	11.3	30
16	SIMS studies of hydrogen diffusion through oxides on Zr&Nb alloy. <i>Surface and Interface Analysis</i> , 1991, 17, 757-763.	1.8	27
17	Microcosm assessment of the biogeochemical development of sulfur and oxygen in oil sands fluid fine tailings. <i>Applied Geochemistry</i> , 2013, 37, 1-11.	3.0	27
18	Reductive Dissolution of Trace Metals from Sediments. <i>Geomicrobiology Journal</i> , 2007, 24, 157-165.	2.0	26

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19	Investigating sources and sinks of N ₂ O expression from freshwater microbial communities in urban watershed sediments. <i>Chemosphere</i> , 2017, 188, 697-705.	8.2	26
20	Microbial metatranscriptomic investigations across contaminant gradients of the Detroit River. <i>Science of the Total Environment</i> , 2019, 690, 121-131.	8.0	26
21	Water and sediment as sources of phosphate in aquatic ecosystems: The Detroit River and its role in the Laurentian Great Lakes. <i>Science of the Total Environment</i> , 2019, 647, 1594-1603.	8.0	24
22	Microbial Dissolution of Silver Jarosite: Examining Its Trace Metal Behaviour in Reduced Environments. <i>Geomicrobiology Journal</i> , 2008, 25, 415-424.	2.0	23
23	Selenate adsorption to composites of <i>Escherichia coli</i> and iron oxide during the addition, oxidation, and hydrolysis of Fe(II). <i>Chemical Geology</i> , 2014, 383, 180-193.	3.3	19
24	Formation of the Neoproterozoic Bad Vermilion Lake Anorthosite Complex and spatially associated granitic rocks at a convergent plate margin, Superior Province, Western Ontario, Canada. <i>Gondwana Research</i> , 2016, 33, 134-159.	6.0	19
25	Tracking functional bacterial biomarkers in response to a gradient of contaminant exposure within a river continuum. <i>Water Research</i> , 2020, 168, 115167.	11.3	19
26	Cu(II) removal by <i>Anoxybacillus flavithermus</i> iron oxide composites during the addition of Fe(II)aq. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 172, 139-158.	3.9	17
27	Analysis of zirconium-niobium pressure tube surfaces for hydrogen using secondary ion mass spectrometry (SIMS). <i>Surface and Interface Analysis</i> , 1990, 15, 591-597.	1.8	16
28	Bacterially enhanced dissolution of meta-autunite. <i>American Mineralogist</i> , 2008, 93, 1858-1864.	1.9	15
29	Bio-physicochemical effects of gamma irradiation treatment for naphthenic acids in oil sands fluid fine tailings. <i>Science of the Total Environment</i> , 2016, 539, 114-124.	8.0	15
30	Evaluating the microbial community and gene regulation involved in crystallization kinetics of ZnS formation in reduced environments. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 220, 201-216.	3.9	14
31	Exploring bacterial pathogen community dynamics in freshwater beach sediments: A tale of two lakes. <i>Environmental Microbiology</i> , 2020, 22, 568-583.	3.8	13
32	Analysis of Zr—Nb fuel channel surfaces for hydrogen and other elements using Secondary Ion Mass Spectrometry (SIMS). <i>Journal of Nuclear Materials</i> , 1991, 178, 80-92.	2.7	12
33	SIMS imaging studies of the corrosion of alloy 800 and alloy 600 surfaces under secondary side boiler conditions. <i>Surface and Interface Analysis</i> , 1992, 18, 601-603.	1.8	12
34	The effect of Ca—Fe—As coatings on microbial leaching of metals in arsenic bearing mine waste. <i>Journal of Geochemical Exploration</i> , 2011, 110, 23-30.	3.2	11
35	The symbiotic relationship of sediment and biofilm dynamics at the sediment water interface of oil sands industrial tailings ponds. <i>Water Research</i> , 2016, 100, 337-347.	11.3	11
36	Solid phase characterization and metal deportment in a mussel shell bioreactor for the treatment of AMD, Stockton Coal Mine, New Zealand. <i>Applied Geochemistry</i> , 2016, 67, 133-143.	3.0	11

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37	Reductive Dissolution of Tl(I) Jarosite by <i>Shewanella putrefaciens</i> : Providing New Insights into Tl Biogeochemistry. <i>Environmental Science & Technology</i> , 2012, 46, 11086-11094.	10.0	10
38	Investigating the Microbial Degradation Potential in Oil Sands Fluid Fine Tailings Using Gamma Irradiation: A Metagenomic Perspective. <i>Microbial Ecology</i> , 2017, 74, 362-372.	2.8	10
39	Microbial metabolic strategies for overcoming low-oxygen in naturalized freshwater reservoirs surrounding the Athabasca Oil Sands: A proxy for End-Pit Lakes?. <i>Science of the Total Environment</i> , 2019, 665, 113-124.	8.0	10
40	Nitrification kinetics and microbial community dynamics of attached biofilm in wastewater treatment. <i>Water Science and Technology</i> , 2020, 81, 891-905.	2.5	8
41	Cu(II) removal by <i>E. coli</i> iron oxide composites during the addition and oxidation of Fe(II). <i>Chemical Geology</i> , 2015, 409, 136-148.	3.3	7
42	Physicochemical gradients, diffusive flux, and sediment oxygen demand within oil sands tailings materials from Alberta, Canada. <i>Applied Geochemistry</i> , 2016, 75, 90-99.	3.0	7
43	Investigating the microbial dynamics of microcystin-LR degradation in Lake Erie sand. <i>Chemosphere</i> , 2021, 272, 129873.	8.2	7
44	Evidence for Microbial Community Effect on Sediment Equilibrium Phosphorus Concentration (EPC0). <i>Bulletin of Environmental Contamination and Toxicology</i> , 2020, 105, 736-741.	2.7	6
45	Investigating the Effects of Se Solid Phase Substitution in Jarosite Minerals Influenced by Bacterial Reductive Dissolution. <i>Minerals (Basel, Switzerland)</i> , 2014, 4, 17-36.	2.0	5
46	Identifying chemolithotrophic and pathogenic-related gene expression within suspended sediment flocs in freshwater environments: A metatranscriptomic assessment. <i>Science of the Total Environment</i> , 2021, , 150996.	8.0	3
47	Novel Molecular Tools to Assess Microbial Activity in Contaminated Environments. <i>Soil Biology</i> , 2014, , 17-35.	0.8	2
48	Comment on "Predominance of Aqueous Tl(I) Species in the River System Downstream from the Abandoned Carnoules Mine (Southern France)". <i>Environmental Science & Technology</i> , 2012, 46, 2473-2474.	10.0	1
49	Combined imaging and molecular techniques for evaluating microbial function and composition: A review. <i>Surface and Interface Analysis</i> , 2017, 49, 1416-1421.	1.8	1
50	Biogeochemical Characterization of Metal Behavior from Novel Mussel Shell Bioreactor Sludge Residues. <i>Geosciences (Switzerland)</i> , 2019, 9, 50.	2.2	1