

Cecilia Demergasso

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

82

papers

1,687

citations

23

h-index

39

g-index

87

ext. papers

2,039

ext. citations

2.8

avg, IF

4.3

L-index

#	Paper	IF	Citations
82	Surface Morphologies in a Mars-Analog Ca-Sulfate Salar, High Andes, Northern Chile. <i>Frontiers in Astronomy and Space Sciences</i> , 2022 , 8,	3.8	1
81	Physical, chemical, and microbial feedbacks controlling brine geochemistry and lake morphology in polyextreme salar environments.. <i>Science of the Total Environment</i> , 2022 , 155378	10.2	0
80	Mineral Paragenesis Precipitating in Salt Flat Pools of Continental Environments Replicated in Microbial Mat Microcosms without Evaporation. <i>Minerals (Basel, Switzerland)</i> , 2022 , 12, 646	2.4	
79	From Laboratory towards Industrial Operation: Biomarkers for Acidophilic Metabolic Activity in Bioleaching Systems. <i>Genes</i> , 2021 , 12,	4.2	1
78	An indigenous bacterium with enhanced performance of microbially-induced Ca-carbonate biomineralization under extreme alkaline conditions for concrete and soil-improvement industries. <i>Acta Biomaterialia</i> , 2021 , 120, 304-317	10.8	12
77	On the origin of saline compounds in acidic salt flats (Central Andean Altiplano). <i>Chemical Geology</i> , 2021 , 574, 120155	4.2	3
76	Time-Integrative Multibiome Detection in Triassic-Jurassic Rocks from the Atacama Desert: Relevance to the Search for Basic Life Beyond Earth. <i>Astrobiology</i> , 2021 , 21, 1421-1437	3.7	1
75	El Dominio Salino del norte de Chile y sus yacimientos de minerales industriales. <i>Boletín De La Sociedad Geológica Mexicana</i> , 2020 , 72, A020720	1.7	5
74	A Test in a High Altitude Lake of a Multi-Parametric Rapid Methodology for Assessing Life in Liquid Environments on Planetary Bodies: A Potential New Freshwater Polychaete Tubeworm Community. <i>Frontiers in Environmental Science</i> , 2019 , 7,	4.8	1
73	Microbiology and Nitrogen Cycle in the Benthic Sediments of a Glacial Oligotrophic Deep Andean Lake as Analog of Ancient Martian Lake-Beds. <i>Frontiers in Microbiology</i> , 2019 , 10, 929	5.7	8
72	Subsurface Microbial Habitats in an Extreme Desert Mars-Analog Environment. <i>Frontiers in Microbiology</i> , 2019 , 10, 69	5.7	25
71	Validation of Genetic Markers Associated to Oxygen Availability in Low-Grade Copper Bioleaching Systems: An Industrial Application. <i>Frontiers in Microbiology</i> , 2019 , 10, 1841	5.7	2
70	Biomarkers and Metabolic Patterns in the Sediments of Evolving Glacial Lakes as a Proxy for Planetary Lake Exploration. <i>Astrobiology</i> , 2018 , 18, 586-606	3.7	13
69	Watershed-Induced Limnological and Microbial Status in Two Oligotrophic Andean Lakes Exposed to the Same Climatic Scenario. <i>Frontiers in Microbiology</i> , 2018 , 9, 357	5.7	5
68	A thiotrophic microbial community in an acidic brine lake in Northern Chile. <i>Antonie Van Leeuwenhoek</i> , 2018 , 111, 1403-1419	2.1	8
67	Decision support system for bioleaching processes. <i>Hydrometallurgy</i> , 2018 , 181, 113-122	4	12
66	Biological Production of Copper Sulfide Concentrate from Flotation Tailings and Low Grade Ore. <i>Solid State Phenomena</i> , 2017 , 262, 202-206	0.4	2

65	From Knowledge to Best Practices in Bioleaching. <i>Solid State Phenomena</i> , 2017 , 262, 285-289	0.4	2
64	Draft genome sequence of CLST isolated from the acidic hypersaline Gorbea salt flat in northern Chile. <i>Standards in Genomic Sciences</i> , 2017 , 12, 84		16
63	Microbial Survey on Industrial Bioleaching Heap by High-Throughput 16S Sequencing and Metagenomics Analysis. <i>Solid State Phenomena</i> , 2017 , 262, 219-223	0.4	7
62	Is the growth of microorganisms limited by carbon availability during chalcopyrite bioleaching?. <i>Hydrometallurgy</i> , 2017 , 168, 13-20	4	16
61	First draft genome sequence of a strain from the genus isolated from Salar de Ascot� in Northern Chile. <i>Standards in Genomic Sciences</i> , 2017 , 12, 43		15
60	Transcription Dynamics of CBB-Pathway Genes in <i>Acidithiobacillus thiooxidans</i> Growing under Different CO ₂ Levels. <i>Solid State Phenomena</i> , 2017 , 262, 376-380	0.4	2
59	Microbial Community Structure and the Persistence of Cyanobacterial Populations in Salt Crusts of the Hyperarid Atacama Desert from Genome-Resolved Metagenomics. <i>Frontiers in Microbiology</i> , 2017 , 8, 1435	5.7	51
58	Draft genome sequence of chloride-tolerant <i>Leptospirillum ferriphilum</i> Sp-Cl from industrial bioleaching operations in northern Chile. <i>Standards in Genomic Sciences</i> , 2016 , 11, 19		20
57	One-Dimensional TiO ₂ -B Crystals Synthesised by Hydrothermal Process and Their Antibacterial Behaviour on <i>Escherichia coli</i> . <i>Journal of Nanomaterials</i> , 2016 , 2016, 1-8	3.2	7
56	The Ecological Coherence of Temperature and Salinity Tolerance Interaction and Pigmentation in a Non-marine Isolated from Salar de Atacama. <i>Frontiers in Microbiology</i> , 2016 , 7, 1943	5.7	16
55	Rates and geochemical processes of soil and salt crust formation in Salars of the Atacama Desert, Chile. <i>Geoderma</i> , 2016 , 284, 57-72	6.7	30
54	Copper resistance, motility and the mineral dissolution behavior were assessed as novel factors involved in bacterial adhesion in bioleaching. <i>Hydrometallurgy</i> , 2015 , 157, 107-115	4	11
53	Blue-Copper Proteins: Expression of Coding Genes from <i>Sulfobacillus</i> Spp. and Iron Oxidation in Column Bioleaching Tests. <i>Advanced Materials Research</i> , 2015 , 1130, 333-337	0.5	2
52	Insights into the Active Carbon Fixation Pathways of a Microbial Community in a Chalcopyrite Bioleaching Column. <i>Advanced Materials Research</i> , 2015 , 1130, 367-370	0.5	1
51	Organotrophic and Mixotrophic Sulfur Oxidation in an Acidic Salt Flat in Northern Chile. <i>Advanced Materials Research</i> , 2015 , 1130, 63-66	0.5	3
50	Bioleaching of copper secondary sulfide ore in the presence of chloride by means of inoculation with chloride-tolerant microbial culture. <i>Hydrometallurgy</i> , 2014 , 150, 308-312	4	16
49	Variation in microbial community from predominantly mesophilic to thermotolerant and moderately thermophilic species in an industrial copper heap bioleaching operation. <i>Hydrometallurgy</i> , 2014 , 150, 281-289	4	36
48	Draft Genome Sequence of <i>Nitrocola</i> sp. Strain A-D6, an Arsenic-Resistant Gammaproteobacterium Isolated from a Salt Flat. <i>Genome Announcements</i> , 2014 , 2,		5

47	Molecular preservation in halite- and perchlorate-rich hypersaline subsurface deposits in the Salar Grande basin (Atacama Desert, Chile): Implications for the search for molecular biomarkers on Mars. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 922-939	3.7	23
46	Analysis of Gene Expression in Response to Copper Stress in <i>Acidithiobacillus ferrooxidans</i> Strain D2, Isolated from a Copper Bioleaching Operation. <i>Advanced Materials Research</i> , 2013 , 825, 157-161	0.5	11
45	Parameters influencing the microbial oxidation activity in the industrial bioleaching heap at Escondida mine, Chile. <i>Hydrometallurgy</i> , 2013 , 133, 51-57	4	19
44	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, 3729-37	5.7	62
43	Effect of Increased Acid Concentration on the Microbial Population Inhabiting an Industrial Heap Bioleaching Plant. <i>Advanced Materials Research</i> , 2013 , 825, 348-351	0.5	5
42	Estimation of Ionic Load Effect on the Oxidizing Activity of the Microbial Population in the Heap Bioleaching Process at Escondida Mine. <i>Advanced Materials Research</i> , 2013 , 825, 219-222	0.5	3
41	A Descriptive Model for Microbial Population Dynamics in a Copper Sulphide Bioleaching Heap with Spatial and Physicochemical Considerations. <i>Advanced Materials Research</i> , 2013 , 825, 233-237	0.5	1
40	From Mesophilic to Moderate Thermophilic Populations in an Industrial Heap Bioleaching Process. <i>Advanced Materials Research</i> , 2013 , 825, 376-379	0.5	3
39	Effect of Contact with Organic Extractant LIX 84IC during Solvent Extraction Process on the Re-Establishment of Growth of Bioleaching Microorganisms. <i>Advanced Materials Research</i> , 2013 , 825, 340-343	0.5	
38	Variance Calculations for Quantitative Real-Time PCR Experiments with Multiple Levels of Replication. <i>Advanced Materials Research</i> , 2013 , 825, 172-176	0.5	
37	Temporal Dynamics of Genes Involved in Metabolic Pathways of C and N of <i>L. ferriphilum</i> , in the Industrial Bioleaching Process of Escondida Mine, Chile. <i>Advanced Materials Research</i> , 2013 , 825, 162-165	0.5	9
36	Distribution of microbial arsenic reduction, oxidation and extrusion genes along a wide range of environmental arsenic concentrations. <i>PLoS ONE</i> , 2013 , 8, e78890	3.7	60
35	Bioleaching of Covellite from Low Grade Copper Sulphide Ore and Tails. <i>Advanced Materials Research</i> , 2013 , 825, 262-265	0.5	2
34	Geochemistry and Microbiology in an Acidic, High Altitude (4,000 m) Salt Flat [High Andes, Northern Chile. <i>Advanced Materials Research</i> , 2013 , 825, 28-32	0.5	10
33	Analysis of Gene Expression as Marker of Relevant Metabolisms, in Three <i>Acidithiobacillus ferrooxidans</i> Strains, in Different Growth Conditions. <i>Advanced Materials Research</i> , 2013 , 825, 166-171	0.5	1
32	Biologically Assisted Copper Secondary Sulfide Ore Leaching in the Presence of Chloride. <i>Advanced Materials Research</i> , 2013 , 825, 292-295	0.5	2
31	Proteo and Actinobacteria Diversity at a Sulfide, Salt and Acid-Rich Lake in the North of Chile. <i>Advanced Materials Research</i> , 2013 , 825, 37-41	0.5	6
30	Effect of organic extractant LIX 84IC, pH and temperature changes on bioleaching microorganisms during SX treatment. <i>Hydrometallurgy</i> , 2012 , 129-130, 135-139	4	18

29	Enrichment of arsenic transforming and resistant heterotrophic bacteria from sediments of two salt lakes in Northern Chile. <i>Extremophiles</i> , 2012 , 16, 523-38	3	35
28	Archaeal diversity along a subterranean salt core from the Salar Grande (Chile). <i>Environmental Microbiology</i> , 2011 , 13, 2105-21	5.2	66
27	A microbial oasis in the hypersaline Atacama subsurface discovered by a life detector chip: implications for the search for life on Mars. <i>Astrobiology</i> , 2011 , 11, 969-96	3.7	90
26	Prokaryotic diversity pattern in high-altitude ecosystems of the Chilean Altiplano. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		43
25	Microbial succession during a heap bioleaching cycle of low grade copper sulfides: Does this knowledge mean a real input for industrial process design and control?. <i>Hydrometallurgy</i> , 2010 , 104, 382-390	4	53
24	Dynamics of declining lake habitat in changing climate 2010 , 347-369		1
23	Characterization of Oxidizing Activity of a Microbial Community in an Industrial Bioleaching Heap. <i>Advanced Materials Research</i> , 2009 , 71-73, 59-62	0.5	5
22	Normalization of Quantitative Real-Time PCR Data of Identified Genes from an Industrial Bioleaching Operation. <i>Advanced Materials Research</i> , 2009 , 71-73, 231-234	0.5	1
21	Comparison between the Bacterial Populations from Solutions and Minerals in 1 m Test Columns and the Industrial Low Grade Copper Sulphide Bioleaching Process in the Escondida Mine, Chile. <i>Advanced Materials Research</i> , 2009 , 71-73, 63-66	0.5	6
20	Differential Gene Expression of Industrial Bioleaching Transcriptomes by <i>Leptospirillum Ferrooxidans</i> DNA Microarray. <i>Advanced Materials Research</i> , 2009 , 71-73, 227-230	0.5	2
19	Dynamic of active microorganisms inhabiting a bioleaching industrial heap of low-grade copper sulfide ore monitored by real-time PCR and oligonucleotide prokaryotic acidophile microarray. <i>Microbial Biotechnology</i> , 2009 , 2, 613-24	6.3	61
18	Microbial Succession during a Heap Bioleaching Cycle of Low Grade Copper Sulphides. Does this Knowledge Mean a Real Input for Industrial Process Design and Control?. <i>Advanced Materials Research</i> , 2009 , 71-73, 21-27	0.5	8
17	The High-Lakes Project. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		34
16	Diversity of Bacteroidetes in high-altitude saline evaporitic basins in northern Chile. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		57
15	Novelty and spatio-temporal heterogeneity in the bacterial diversity of hypersaline Lake Tebenquiche (Salar de Atacama). <i>Extremophiles</i> , 2008 , 12, 491-504	3	102
14	Identification of differentially expressed genes in an industrial bioleaching heap processing low-grade copper sulphide ore elucidated by RNA arbitrarily primed polymerase chain reaction. <i>Hydrometallurgy</i> , 2008 , 94, 148-154	4	26
13	Life in the Atacama: Searching for life with rovers (science overview). <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		34
12	Investigating microbial diversity and UV radiation impact at the high-altitude Lake Aguas Calientes, Chile 2007 ,		11

11	Differential Genetic Expression in Heap Bioleaching of Low-Grade Copper Sulphide Ore at Escondida Mine, Chile. <i>Advanced Materials Research</i> , 2007 , 20-21, 435-438	0.5	
10	Monitoring of Microbial Community Inhabiting a Low-Grade Copper Sulphide Ore by Quantitative Real-Time PCR Analysis of 16S rRNA Genes. <i>Advanced Materials Research</i> , 2007 , 20-21, 539-542	0.5	13
9	Bacterial Activity at Low Temperature in Cultures Derived from a Low-Grade Copper Sulphide Bioleaching Heap at the Escondida Mine, Chile. <i>Advanced Materials Research</i> , 2007 , 20-21, 543-546	0.5	5
8	Microbial Precipitation of Arsenic Sulfides in Andean Salt Flats. <i>Geomicrobiology Journal</i> , 2007 , 24, 111-123	0.5	52
7	Molecular characterization of microbial populations in a low-grade copper ore bioleaching test heap. <i>Hydrometallurgy</i> , 2005 , 80, 241-253	4	124
6	Distribution of prokaryotic genetic diversity in athalassohaline lakes of the Atacama Desert, Northern Chile. <i>FEMS Microbiology Ecology</i> , 2004 , 48, 57-69	4.3	136
5	Tapetes microbianos del Salar de Llamar [norte de Chile. <i>Revista Chilena De Historia Natural</i> , 2003 , 76, 485	1.8	37
4	Assessment of bioavailable arsenic and copper in soils and sediments from the Antofagasta region of northern Chile. <i>Science of the Total Environment</i> , 2002 , 286, 51-9	10.2	58
3	Los yacimientos de boratos de Chile. <i>Andean Geology</i> , 2000 , 27,		11
2	Signatures of habitats and life in Earth's high-altitude lakes: clues to Noachian aqueous environments on Mars 349-370		17
1	Assessment of Microbial Adhesion in Mixed Cultures to Sulfide Minerals Using CARD-FISH Techniques. <i>Advanced Materials Research</i> , 71-73, 83-86	0.5	6