

# Edgardo Rubén Donati

## 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.

101  
papers

1,591  
citations

24  
h-index

35  
g-index

108  
ext. papers

1,831  
ext. citations

4.1  
avg, IF

4.76  
L-index

#	Paper	IF	Citations
101	Bioreduction and biosorption of chromium by <i>Undaria pinnatifida</i> . <i>Algal Research</i> , <b>2022</b> , 65, 102729	5	0
100	Influence of UVA radiation on growth, biofilm formation and bioleaching capacity of <i>Leptospirillum ferrooxidans</i> . <i>Hydrometallurgy</i> , <b>2021</b> , 201, 105574	4	0
99	Influence of Extremophiles on the Generation of Acid Mine Drainage at the Abandoned Pan de Azúcar Mine (Argentina). <i>Microorganisms</i> , <b>2021</b> , 9,	4.9	2
98	Effect of heavy metal-induced stress on two extremophilic microbial communities from Caviahue-Copahue, Argentina. <i>Environmental Pollution</i> , <b>2021</b> , 268, 115709	9.3	0
97	Bacterial Reduction of Cr(VI): Operational Challenges and Feasibility. <i>Current Pollution Reports</i> , <b>2021</b> , 7, 115-127	7.6	4
96	Evaluation of the sequential coupling of a bacterial treatment with a physicochemical process for the remediation of wastewater containing Cr and organic pollutants. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 418, 126307	12.8	1
95	Isolated from a Pristine Natural Geothermal Area Reveals High Keratinolytic Activity. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	7
94	Meta-Analysis of Microbial Communities in Hot Springs: Recurrent Taxa and Complex Shaping Factors beyond pH and Temperature. <i>Microorganisms</i> , <b>2020</b> , 8,	4.9	9
93	Arsenic-tolerant microbial consortia from sediments of Copahue geothermal system with potential applications in bioremediation. <i>Journal of Basic Microbiology</i> , <b>2019</b> , 59, 680-691	2.7	9
92	Metal biorecovery and bioremediation: Whether or not thermophilic are better than mesophilic microorganisms. <i>Bioresource Technology</i> , <b>2019</b> , 279, 317-326	11	28
91	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> , <b>2019</b> , 95,	4.3	7
90	Domestication of Local Microbial Consortia for Efficient Recovery of Gold Through Top-Down Selection in Airlift Bioreactors. <i>Frontiers in Microbiology</i> , <b>2019</b> , 10, 60	5.7	4
89	A Deeper Look into the Biodiversity of the Extremely Acidic Copahue volcano-RB Agrio System in Neuquén, Argentina. <i>Microorganisms</i> , <b>2019</b> , 8,	4.9	4
88	Assessment of Keratinase and Other Hydrolytic Enzymes in Thermophilic Bacteria Isolated from Geothermal Areas in Patagonia Argentina. <i>Geomicrobiology Journal</i> , <b>2018</b> , 35, 156-165	2.5	18
87	Biosorption of Dyes by Brown Algae <b>2018</b> , 74-86		1
86	Combined strategy for removal of Reactive Black 5 by biomass sorption on <i>Macrocystis pyrifera</i> and zerovalent iron nanoparticles. <i>Journal of Environmental Management</i> , <b>2018</b> , 207, 70-79	7.9	21
85	Simultaneous Culture and Biomachining of Copper in MAC Medium: A Comparison between <i>Acidithiobacillus ferrooxidans</i> and <i>Sulfobacillus thermosulfidooxidans</i> . <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 17026-17034	8.3	5

84	Microbial oxidation of refractory gold sulfide concentrate by a native consortium. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2017</b> , 27, 1143-1149	3.3	15
83	Genome analysis of the thermoacidophilic archaeon <i>Acidianus copahuensis</i> focusing on the metabolisms associated to biomining activities. <i>BMC Genomics</i> , <b>2017</b> , 18, 445	4.5	10
82	Metagenome-Derived Draft Genome Sequence of <i>Acidithiobacillus ferrooxidans</i> RV1 from an Abandoned Gold Tailing in Neuqu�n, Argentina. <i>Solid State Phenomena</i> , <b>2017</b> , 262, 439-442	0.4	1
81	Effects of Physiochemical Factors on Prokaryotic Biodiversity in Malaysian Circumneutral Hot Springs. <i>Frontiers in Microbiology</i> , <b>2017</b> , 8, 1252	5.7	34
80	Biology and Biotechnology of Patagonian Microorganisms <b>2016</b> ,		1
79	Thermophilic microorganisms in biomining. <i>World Journal of Microbiology and Biotechnology</i> , <b>2016</b> , 32, 179	4.4	21
78	New advances in copper biomachining by iron-oxidizing bacteria. <i>Corrosion Science</i> , <b>2016</b> , 112, 385-392	6.8	18
77	Soil variables that determine lead accumulation in <i>Bidens pilosa</i> L. and <i>Tagetes minuta</i> L. growing in polluted soils. <i>Geoderma</i> , <b>2016</b> , 279, 97-108	6.7	11
76	Effects of different energy sources on cell adhesion and bioleaching of a chalcopyrite concentrate by extremophilic archaeon <i>Acidianus copahuensis</i> . <i>Hydrometallurgy</i> , <b>2016</b> , 162, 49-56	4	23
75	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> , <b>2016</b> , 167, 604-12	4	10
74	Extremophilic Patagonian Microorganisms Working in Biomining <b>2016</b> , 185-204		
73	Assessment of Microbial Patagonian Communities for Using in Heavy Metal Bioremediation <b>2016</b> , 71-90		1
72	Improving zinc recovery by thermoacidophilic archaeon <i>Acidianus copahuensis</i> using tetrathionate. <i>Transactions of Nonferrous Metals Society of China</i> , <b>2016</b> , 26, 3004-3014	3.3	10
71	Draft Genome Sequence of the Sulfate-Reducing Bacterium <i>Desulfotomaculum copahuensis</i> Strain CINDEF11 Isolated from the Geothermal Copahue System, Neuqu�n, Argentina. <i>Genome Announcements</i> , <b>2016</b> , 4,		4
70	Comparison of the microbial communities of hot springs waters and the microbial biofilms in the acidic geothermal area of Copahue (Neuqu�n, Argentina). <i>Extremophiles</i> , <b>2015</b> , 19, 437-50	3	35
69	EXAFS and DFT study of the cadmium and lead adsorption on modified silica nanoparticles. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , <b>2015</b> , 151, 156-63	4.4	18
68	Zinc recovery during refractory ore biooxidation by an indigenous consortium. <i>International Journal of Mineral Processing</i> , <b>2015</b> , 138, 30-37		8
67	Thermophiles in the genomic era: Biodiversity, science, and applications. <i>Biotechnology Advances</i> , <b>2015</b> , 33, 633-47	17.8	89

66	Geographical discrimination of honeys through antioxidant capacity, mineral content and colour. <i>International Journal of Food Science and Technology</i> , <b>2015</b> , 50, 2598-2605	3.8	14
65	Copahue Geothermal System: A Volcanic Environment with Rich Extreme Prokaryotic Biodiversity. <i>Microorganisms</i> , <b>2015</b> , 3, 344-63	4.9	9
64	Reagent-free flow-injection amperometric sensor for quantification and speciation of iron for bio-hydrometallurgical applications. <i>Sensors and Actuators B: Chemical</i> , <b>2015</b> , 220, 448-455	8.5	8
63	Archaeal and bacterial diversity in five different hydrothermal ponds in the Copahue region in Argentina. <i>Systematic and Applied Microbiology</i> , <b>2014</b> , 37, 429-41	4.2	33
62	Biochemical characterization of <i>Macrocyctis pyrifera</i> and <i>Undaria pinnatifida</i> (Phaeophyceae) in relation to their potentiality as biosorbents. <i>Phycologia</i> , <b>2014</b> , 53, 100-108	2.7	15
61	Draft Genome Sequence of the Novel Thermoacidophilic Archaeon <i>Acidianus copahuensis</i> Strain ALE1, Isolated from the Copahue Volcanic Area in Neuquen, Argentina. <i>Genome Announcements</i> , <b>2014</b> , 2,		12
60	Microbial Generation of Acid Mine Drainage: Its Bioremediation in Buenos Aires, Argentina <b>2014</b> , 165-178		
59	Application of Integrated Microbial Processes for Heavy Metal Recovery from Industrial Wastes of Buenos Aires, Argentina <b>2014</b> , 149-163		
58	How Flexible are the Prokaryote Consortia in the Extreme Habitat of the Copahue Geothermal System?. <i>Advanced Materials Research</i> , <b>2013</b> , 825, 3-6	0.5	
57	Zinc and cadmium removal by biosorption on <i>Undaria pinnatifida</i> in batch and continuous processes. <i>Journal of Environmental Management</i> , <b>2013</b> , 129, 423-34	7.9	60
56	Physiologic versatility and growth flexibility as the main characteristics of a novel thermoacidophilic <i>Acidianus</i> strain isolated from Copahue geothermal area in Argentina. <i>Microbial Ecology</i> , <b>2013</b> , 65, 336-46	4.4	45
55	Recovery of Zinc during the Pre-Treatment of a Refractory Gold-Bearing Ore. <i>Advanced Materials Research</i> , <b>2013</b> , 825, 431-434	0.5	
54	Cyanobacteria and Photosynthetic Species as Part of the Microbial Community Structure of Biofilms in Copahue Geothermal Springs (Neuquén, Argentina). <i>Advanced Materials Research</i> , <b>2013</b> , 825, 11-14	0.5	
53	Microbial Diversity in Acidic Anaerobic Sediments at the Geothermal Caviahue-Copahue System, Argentina. <i>Advanced Materials Research</i> , <b>2013</b> , 825, 7-10	0.5	5
52	Environmental Impact on Soil, Water and Plants from the Abandoned Pan de Azúcar Mine. <i>Advanced Materials Research</i> , <b>2013</b> , 825, 88-91	0.5	5
51	Visualization of Attachment and Colonization of Pyrite Surfaces by a Novel Species of <i>Acidianus</i> . <i>Advanced Materials Research</i> , <b>2013</b> , 825, 70-73	0.5	3
50	Zinc and cadmium biosorption by untreated and calcium-treated <i>Macrocyctis pyrifera</i> in a batch system. <i>Bioresource Technology</i> , <b>2012</b> , 116, 195-203	11	47
49	Biosorption of chromium(III) by two brown algae <i>Macrocyctis pyrifera</i> and <i>Undaria pinnatifida</i> : Equilibrium and kinetic study. <i>Engineering in Life Sciences</i> , <b>2012</b> , 12, 95-103	3.4	24

48	First prokaryotic biodiversity assessment using molecular techniques of an acidic river in Neuquén, Argentina. <i>Microbial Ecology</i> , <b>2012</b> , 64, 91-104	4.4	34
47	Application of the knowledge-based approach to strain selection for a bioaugmentation process of phenanthrene- and Cr(VI)-contaminated soil. <i>Journal of Applied Microbiology</i> , <b>2011</b> , 111, 26-35	4.7	10
46	Biosorption of mercury by <i>Macrocystis pyrifera</i> and <i>Undaria pinnatifida</i> : influence of zinc, cadmium and nickel. <i>Journal of Environmental Sciences</i> , <b>2011</b> , 23, 1778-86	6.4	38
45	The influence of two thermophilic consortia on troilite (FeS) dissolution. <i>Hydrometallurgy</i> , <b>2011</b> , 106, 19-25	4	13
44	Kinetic Approach for the Vapor Pressure Lowering by Non Volatile Solutes <b>2010</b> , 21, 274-277		
43	One-Component Pressure-Temperature Phase Diagrams in the Presence of Air. <i>Journal of Chemical Education</i> , <b>2010</b> , 87, 932-936	2.4	1
42	First assessment of acidophilic microorganisms from geothermal Copahue-Caviahue system. <i>Hydrometallurgy</i> , <b>2010</b> , 104, 334-341	4	34
41	Study of the effect of pH and dissolved heavy metals on the growth of sulfate-reducing bacteria by a fractional factorial design. <i>Hydrometallurgy</i> , <b>2010</b> , 104, 494-500	4	25
40	18th International Biohydrometallurgy Symposium, IBS2009, Bariloche-Argentina, 13-17 September 2009. <i>Hydrometallurgy</i> , <b>2010</b> , 104, 323	4	2
39	Acidophilic Microorganisms from Geothermal Copahue Volcano System. Assessment of Biotechnological Applications. <i>Advanced Materials Research</i> , <b>2009</b> , 71-73, 87-91	0.5	5
38	Molecular and Morphological Characterization of Cultures from the Extreme Environmental Area of Copahue Volcano-Argentina. <i>Advanced Materials Research</i> , <b>2009</b> , 71-73, 93-96	0.5	2
37	Reduction of Heavy-Metal Content in Overburden Material by Bacterial Action. <i>Advanced Materials Research</i> , <b>2009</b> , 71-73, 653-656	0.5	3
36	Mineralogical Characterization of a Polymetallic Concentrate Portovelo Mining District. Bioleaching by a Native Bacterial Consortium. <i>Advanced Materials Research</i> , <b>2009</b> , 71-73, 481-484	0.5	1
35	FISH Analysis of Bacterial Attachment to Copper Sulfides in Bioleaching Processes. <i>Advanced Materials Research</i> , <b>2009</b> , 71-73, 329-332	0.5	
34	Oxidative Capacity of Native Strains from Copahue Geothermal System in the Pretreatment of a Gold Sulfide Ore. <i>Advanced Materials Research</i> , <b>2009</b> , 71-73, 473-476	0.5	2
33	Recovery of Nickel and Zinc Using Biogenerated Sulphuric Acid. <i>Advanced Materials Research</i> , <b>2009</b> , 71-73, 649-652	0.5	2
32	Dynamics of microbial community during bioremediation of phenanthrene and chromium(VI)-contaminated soil microcosms. <i>Biodegradation</i> , <b>2009</b> , 20, 95-107	4.1	17
31	Study of the heavy metal phytoextraction capacity of two forage species growing in an hydroponic environment. <i>Journal of Hazardous Materials</i> , <b>2009</b> , 165, 366-71	12.8	43

30	Improvement in Metal Recovery from Laterite Tailings by Bioleaching. <i>Advanced Materials Research</i> , <b>2009</b> , 71-73, 489-492	0.5	2
29	Isolation of Mesophilic Sulphate-Reducing Bacteria from a Microbial Community: Comparative Study of the Effect of pH and Dissolved Heavy Metals on the Reduction of Sulphate. <i>Advanced Materials Research</i> , <b>2009</b> , 71-73, 549-552	0.5	2
28	Microbial Diversity in a Brazilian Acid Moderate Drainage and Experimental Nickel Bioleaching System. <i>Advanced Materials Research</i> , <b>2009</b> , 71-73, 117-120	0.5	2
27	Cadmium and Zinc Biosorption by <i>Macrocystis Pyrifera</i> : Changes in the Biomass. <i>Advanced Materials Research</i> , <b>2009</b> , 71-73, 601-604	0.5	1
26	Biological ferrous sulfate oxidation by <i>A. ferrooxidans</i> immobilized on chitosan beads. <i>Journal of Microbiological Methods</i> , <b>2008</b> , 72, 227-34	2.8	15
25	Bioleaching of a polymetallic sulphide mineral by native strains of <i>Leptospirillum ferrooxidans</i> from Patagonia Argentina. <i>Process Biochemistry</i> , <b>2008</b> , 43, 445-450	4.8	9
24	Integrated bacterial process for the treatment of a spent nickel catalyst. <i>Journal of Hazardous Materials</i> , <b>2008</b> , 154, 804-10	12.8	27
23	Cobalt and nickel recoveries from laterite tailings by organic and inorganic bio-acids. <i>Hydrometallurgy</i> , <b>2008</b> , 94, 18-22	4	58
22	Recovery Of Zinc, Nickel, Cobalt And Other Metals By Bioleaching <b>2007</b> , 103-119		9
21	Airlift Reactors: Characterization And Applications In Biohydrometallurgy <b>2007</b> , 169-191		5
20	Bioleaching of zinc from low-grade complex sulfide ores in an airlift by isolated <i>Leptospirillum ferrooxidans</i> . <i>Hydrometallurgy</i> , <b>2007</b> , 89, 117-126	4	32
19	Bacterial removal of chromium (VI) and (III) in a continuous system. <i>Biodegradation</i> , <b>2007</b> , 18, 505-13	4.1	31
18	The role of higher polythionates in the reduction of chromium(VI) by <i>Acidithiobacillus</i> and <i>Thiobacillus</i> cultures. <i>Journal of Biotechnology</i> , <b>2006</b> , 122, 55-61	3.7	20
17	ATP requirements for growth and maintenance of iron-oxidizing bacteria. <i>Biochemical Engineering Journal</i> , <b>2004</b> , 18, 211-216	4.2	11
16	A comparison of bioleaching of covellite using pure cultures of <i>Acidithiobacillus ferrooxidans</i> and <i>Acidithiobacillus thiooxidans</i> or a mixed culture of <i>Leptospirillum ferrooxidans</i> and <i>Acidithiobacillus thiooxidans</i> . <i>Hydrometallurgy</i> , <b>2003</b> , 71, 31-36	4	51
15	A combined bacterial process for the reduction and immobilization of chromium. <i>International Biodeterioration and Biodegradation</i> , <b>2003</b> , 52, 31-34	4.8	24
14	Reduction of chromium (VI) by the indirect action of <i>Thiobacillus thioparus</i> . <i>Brazilian Journal of Chemical Engineering</i> , <b>2003</b> , 20, 69-73	1.7	18
13	Factors affecting chromium(VI) reduction by <i>Thiobacillus ferrooxidans</i> . <i>Biochemical Engineering Journal</i> , <b>2001</b> , 9, 11-15	4.2	53

12	Development of Thiobacillus biofilms for metal recovery. <i>Methods in Enzymology</i> , <b>2001</b> , 337, 171-86	1.7	3
11	Iron-oxidizing and leaching activities of sulphur-grown Thiobacillus ferrooxidans cells on other substrates: effect of culture pH. <i>Journal of Bioscience and Bioengineering</i> , <b>2000</b> , 90, 57-61	3.3	10
10	Enhancement of Copper Dissolution from a Sulfide Ore by Using Thiobacillus thiooxidans. <i>Geomicrobiology Journal</i> , <b>2000</b> , 17, 35-42	2.5	7
9	Vanadium recovery from solid catalysts by means of Thiobacilli action. <i>Process Metallurgy</i> , <b>1999</b> , 9, 263-271		7
8	The role of exopolymers in the bioleaching of a non-ferrous metal sulphide. <i>Journal of Industrial Microbiology and Biotechnology</i> , <b>1999</b> , 22, 88-92	4.2	40
7	Bio-dissolution of spent nickel-cadmium batteries using Thiobacillus ferrooxidans. <i>Journal of Biotechnology</i> , <b>1998</b> , 62, 209-19	3.7	94
6	Anaerobic leaching of covellite by Thiobacillus ferrooxidans. <i>Applied Microbiology and Biotechnology</i> , <b>1997</b> , 47, 636-639	5.7	21
5	Vanadium(V) reduction in Thiobacillus thiooxidans cultures on elemental sulfur. <i>Biotechnology Letters</i> , <b>1996</b> , 18, 505-508	3	31
4	Bioleaching of metallic sulphides with Thiobacillus ferrooxidans in the absence of iron (II). <i>World Journal of Microbiology and Biotechnology</i> , <b>1992</b> , 8, 305-8	4.4	8
3	Effect of iron (III) and its hydrolysis products (jarosites) on Thiobacillus ferrooxidans growth and on bacterial leaching. <i>Biotechnology Letters</i> , <b>1992</b> , 14, 329-334	3	39
2	Heavy Metals in the Environment		3
1	Parastrephia quadrangularis: A Possible Alternative to Inhibit the Microbial Effect on the Generation of Acid Mine Drainage. <i>Mine Water and the Environment</i> , 1	2.4	1