

Ricardo Amils Pibernat

List of Publications by Year in descending order

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Version: 2024-02-01

83
papers

3,614
citations

159573

30
h-index

138468

58
g-index

91
all docs

91
docs citations

91
times ranked

3832
citing authors

#	ARTICLE	IF	CITATIONS
1	Eukaryotic diversity in Spain's River of Fire. <i>Nature</i> , 2002, 417, 137-137.	27.8	379
2	The R�o Tinto Basin, Spain: Mineralogy, sedimentary geobiology, and implications for interpretation of outcrop rocks at Meridiani Planum, Mars. <i>Earth and Planetary Science Letters</i> , 2005, 240, 149-167.	4.4	274
3	Microbial Diversity in Anaerobic Sediments at R�o Tinto, a Naturally Acidic Environment with a High Heavy Metal Content. <i>Applied and Environmental Microbiology</i> , 2011, 77, 6085-6093.	3.1	205
4	Inhibition of carbonate synthesis in acidic oceans on early Mars. <i>Nature</i> , 2004, 431, 423-426.	27.8	169
5	Extreme environments as Mars terrestrial analogs: The Rio Tinto case. <i>Planetary and Space Science</i> , 2007, 55, 370-381.	1.7	166
6	Astrobiology through the Ages of Mars: The Study of Terrestrial Analogues to Understand the Habitability of Mars. <i>Astrobiology</i> , 2010, 10, 821-843.	3.0	141
7	Eukaryotic Community Distribution and Its Relationship to Water Physicochemical Parameters in an Extreme Acidic Environment, R�o Tinto (Southwestern Spain). <i>Applied and Environmental Microbiology</i> , 2006, 72, 5325-5330.	3.1	126
8	Viable cyanobacteria in the deep continental subsurface. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 10702-10707.	7.1	124
9	Microbial community structure across the tree of life in the extreme R�o Tinto. <i>ISME Journal</i> , 2011, 5, 42-50.	9.8	110
10	Microbial community dynamics in a chemolithotrophic denitrification reactor inoculated with methanogenic granular sludge. <i>Chemosphere</i> , 2008, 70, 462-474.	8.2	93
11	Geological record of an acidic environment driven by iron hydrochemistry: The Tinto River system. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	90
12	Underground Habitats in the R�o Tinto Basin: A Model for Subsurface Life Habitats on Mars. <i>Astrobiology</i> , 2008, 8, 1023-1047.	3.0	85
13	Comparative microbial ecology study of the sediments and the water column of the R�o Tinto, an extreme acidic environment. <i>FEMS Microbiology Ecology</i> , 2012, 81, 303-314.	2.7	82
14	Enrichment and isolation of acidophilic sulfate-reducing bacteria from Tinto River sediments. <i>Environmental Microbiology Reports</i> , 2013, 5, 672-678.	2.4	75
15	R�o Tinto: A Geochemical and Mineralogical Terrestrial Analogue of Mars. <i>Life</i> , 2014, 4, 511-534.	2.4	68
16	Microbial mediated formation of Fe-carbonate minerals under extreme acidic conditions. <i>Scientific Reports</i> , 2014, 4, 4767.	3.3	68
17	Tolerance to cadmium in sp. (Chlorophyta) strains isolated from an extreme acidic environment, the Tinto River (SW, Spain). <i>Aquatic Toxicology</i> , 2005, 75, 316-329.	4.0	59
18	Nucleation of Fe-rich phosphates and carbonates on microbial cells and exopolymeric substances. <i>Frontiers in Microbiology</i> , 2015, 6, 1024.	3.5	58

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19	Photocatalytic elimination of indoor air biological and chemical pollution in realistic conditions. <i>Chemosphere</i> , 2012, 87, 625-630.	8.2	55
20	Protection of chemolithoautotrophic bacteria exposed to simulated Mars environmental conditions. <i>Icarus</i> , 2010, 209, 482-487.	2.5	47
21	Metal Accumulation Screening of the Río Tinto Flora (Huelva, Spain). <i>Biological Trace Element Research</i> , 2010, 134, 318-341.	3.5	46
22	Subsurface formation of oxidants on Mars and implications for the preservation of organic biosignatures. <i>Earth and Planetary Science Letters</i> , 2008, 272, 456-463.	4.4	45
23	Four psychrophilic bacteria from Antarctica extracellularly biosynthesize at low temperature highly stable silver nanoparticles with outstanding antimicrobial activity. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 483, 60-69.	4.7	44
24	Prokaryotic diversity and community composition in the Salar de Uyuni, a large scale, chaotropic salt flat. <i>Environmental Microbiology</i> , 2017, 19, 3745-3754.	3.8	42
25	An oligonucleotide prokaryotic acidophile microarray: its validation and its use to monitor seasonal variations in extreme acidic environments with total environmental RNA. <i>Environmental Microbiology</i> , 2008, 10, 836-850.	3.8	41
26	An Improved Semiquantitative Method for Elemental Analysis of Plants Using Inductive Coupled Plasma Mass Spectrometry. <i>Biological Trace Element Research</i> , 2011, 144, 1302-1317.	3.5	40
27	Active microbial biofilms in deep poor porous continental subsurface rocks. <i>Scientific Reports</i> , 2018, 8, 1538.	3.3	39
28	Screening of anaerobic activities in sediments of an acidic environment: Tinto River. <i>Extremophiles</i> , 2012, 16, 829-839.	2.3	38
29	Lessons learned from thirty years of geomicrobiological studies of Río Tinto. <i>Research in Microbiology</i> , 2016, 167, 539-545.	2.1	36
30	Methanogenesis in the sediments of Rio Tinto, an extreme acidic river. <i>Environmental Microbiology</i> , 2011, 13, 2336-2341.	3.8	33
31	The deep continental subsurface: the dark biosphere. <i>International Microbiology</i> , 2018, 21, 3-14.	2.4	32
32	Evaluation of <i>Leptospirillum</i> spp. in the Río Tinto, a model of interest to biohydrometallurgy. <i>Hydrometallurgy</i> , 2008, 94, 155-161.	4.3	31
33	Composition, speciation and distribution of iron minerals in <i>Imperata cylindrica</i> . <i>Plant Physiology and Biochemistry</i> , 2007, 45, 335-340.	5.8	30
34	Identification of the subsurface sulfide bodies responsible for acidity in Río Tinto source water, Spain. <i>Earth and Planetary Science Letters</i> , 2014, 391, 36-41.	4.4	30
35	Some Ecological Mechanisms to Generate Habitability in Planetary Subsurface Areas by Chemolithotrophic Communities: The Río Tinto Subsurface Ecosystem as a Model System. <i>Astrobiology</i> , 2008, 8, 157-173.	3.0	29
36	Ultra-small microorganisms in the polyextreme conditions of the Dallol volcano, Northern Afar, Ethiopia. <i>Scientific Reports</i> , 2019, 9, 7907.	3.3	28

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37	Photoreduction fuels biogeochemical cycling of iron in Spain's acid rivers. <i>Chemical Geology</i> , 2008, 252, 202-213.	3.3	27
38	Fungal jarosite biomineralization in Río Tinto. <i>Research in Microbiology</i> , 2014, 165, 719-725.	2.1	27
39	Lack of correlation of desiccation and radiation tolerance in microorganisms from diverse extreme environments tested under anoxic conditions. <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	25
40	<i>Tessaracoccus lapidicaptus</i> sp. nov., an actinobacterium isolated from the deep subsurface of the Iberian pyrite belt. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014, 64, 3546-3552.	1.7	24
41	Surface geochemistry of soils associated to the Tinto River (Huelva, Spain). <i>Science of the Total Environment</i> , 2007, 378, 223-227.	8.0	23
42	Association between catastrophic paleovegetation changes during Devonian–Carboniferous boundary and the formation of giant massive sulfide deposits. <i>Earth and Planetary Science Letters</i> , 2010, 299, 398-408.	4.4	23
43	Carbonate precipitation under bulk acidic conditions as a potential biosignature for searching life on Mars. <i>Earth and Planetary Science Letters</i> , 2012, 351-352, 13-26.	4.4	23
44	Study of methanogenic enrichment cultures of rock cores from the deep subsurface of the Iberian Pyritic Belt. <i>Heliyon</i> , 2018, 4, e00605.	3.2	23
45	Prokaryotic and viral community structure in the singular chaotropic salt lake Salar de Uyuni. <i>Environmental Microbiology</i> , 2019, 21, 2029-2042.	3.8	22
46	Fungal Iron Biomineralization in Río Tinto. <i>Minerals (Basel, Switzerland)</i> , 2016, 6, 37.	2.0	20
47	Iberian Pyrite Belt Subsurface Life (IPBSL), a Drilling Project of Biohydrometallurgical Interest. <i>Advanced Materials Research</i> , 0, 825, 15-18.	0.3	18
48	Role of biogenic Fe(III) minerals as a sink and carrier of heavy metals in the Rio Tinto, Spain. <i>Science of the Total Environment</i> , 2020, 718, 137294.	8.0	18
49	The responses of an anaerobic microorganism, <i>Yersinia intermedia</i> MASE-LG-1 to individual and combined simulated Martian stresses. <i>PLoS ONE</i> , 2017, 12, e0185178.	2.5	17
50	Microbial Markers Profile in Anaerobic Mars Analogue Environments Using the LDChip (Life Detector) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 7, 365.	3.6	16
51	Astrobiology of life on Earth. <i>Environmental Microbiology</i> , 2021, 23, 3335-3344.	3.8	16
52	The environment of early Mars and the missing carbonates. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1447-1469.	1.6	15
53	Comparison of iron localization in wild plants and hydroponic cultures of <i>Imperata cylindrica</i> (L.) P. Beauv.. <i>Plant and Soil</i> , 2017, 418, 25-35.	3.7	15
54	Immunocytochemical analysis of the subcellular distribution of ferritin in <i>Imperata cylindrica</i> (L.) Raeuschel, an iron hyperaccumulator plant. <i>Acta Histochemica</i> , 2012, 114, 232-236.	1.8	14

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55	Taxonomic and functional analyses of intact microbial communities thriving in extreme, astrobiology-relevant, anoxic sites. <i>Microbiome</i> , 2021, 9, 50.	11.1	14
56	Localization of Nickel in Tissues of <i>Streptanthus polygaloides</i> Gray (Cruciferae) and Endemic Nickel Hyperaccumulators from California. <i>Biological Trace Element Research</i> , 2014, 157, 75-83.	3.5	13
57	Visualizing Microorganism-Mineral Interaction in the Iberian Pyrite Belt Subsurface: The Acidovorax Case. <i>Frontiers in Microbiology</i> , 2020, 11, 572104.	3.5	13
58	Subsurface and surface halophile communities of the chaotropic Salar de Uyuni. <i>Environmental Microbiology</i> , 2021, 23, 3987-4001.	3.8	13
59	Biological production of H_2 , CH_4 and CO_2 in the deep subsurface of the Iberian Pyrite Belt. <i>Environmental Microbiology</i> , 2021, 23, 3913-3922.	3.8	13
60	Plant Tissues and Embryos Biominerals in <i>Sarcocornia pruinosa</i> , a Halophyte from the Río Tinto Salt Marshes. <i>Minerals (Basel, Switzerland)</i> , 2018, 8, 505.	2.0	12
61	Impact of Simulated Martian Conditions on (Facultatively) Anaerobic Bacterial Strains from Different Mars Analogue Sites. <i>Current Issues in Molecular Biology</i> , 2020, 38, 103-122.	2.4	12
62	Detection of Peptidic Sequences in the Ancient Acidic Sediments of Río Tinto, Spain. <i>Origins of Life and Evolution of Biospheres</i> , 2011, 41, 523-527.	1.9	11
63	A mineralogical archive of the biogeochemical sulfur cycle preserved in the subsurface of the Río Tinto system. <i>American Mineralogist</i> , 2018, 103, 394-411.	1.9	10
64	Subsurface Geomicrobiology of the Iberian Pyritic Belt. <i>Soil Biology</i> , 2008, , 205-223.	0.8	8
65	Draft Genome Sequence of <i>Rhodoplanes</i> sp. Strain T2.26MG-98, Isolated from 492.6 Meters Deep on the Subsurface of the Iberian Pyrite Belt. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	8
66	Beyond Chloride Brines: Variable Metabolomic Responses in the Anaerobic Organism <i>Yersinia intermedia</i> MASE-LG-1 to NaCl and MgSO ₄ at Identical Water Activity. <i>Frontiers in Microbiology</i> , 2018, 9, 335.	3.5	7
67	A Laboratory of Extremophiles: Iceland Coordination Action for Research Activities on Life in Extreme Environments (CAREX) Field Campaign. <i>Life</i> , 2013, 3, 211-233.	2.4	6
68	Preservation of Underground Microbial Diversity in Ancient Subsurface Deposits (>6 Ma) of the Rio Tinto Basement. <i>Microorganisms</i> , 2021, 9, 1592.	3.6	6
69	The Molecular Record of Metabolic Activity in the Subsurface of the Río Tinto Mars Analog. <i>Astrobiology</i> , 2021, 21, 1387-1405.	3.0	6
70	Biogeochemical Niches of Fe-Cycling Communities Influencing Heavy Metal Transport along the Rio Tinto, Spain. <i>Applied and Environmental Microbiology</i> , 2022, 88, AEM0229021.	3.1	6
71	Formation of iron-rich shelled structures by microbial communities. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 147-168.	3.0	4
72	Productivity Contribution of Paleozoic Woodlands to the Formation of Shale-Hosted Massive Sulfide Deposits in the Iberian Pyrite Belt (Tharsis, Spain). <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 1017-1040.	3.0	4

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73	Adaptation of granular sludge microbial communities to nitrate, sulfide, and/or p-cresol removal. <i>International Microbiology</i> , 2019, 22, 305-316.	2.4	4
74	Reply to the Comment on "Identification of the subsurface sulfide bodies responsible for acidity in Río Tinto source water, Spain" (<i>Earth Planet. Sci. Lett.</i> 391 (2014) 36-41). <i>Earth and Planetary Science Letters</i> , 2014, 403, 459-462.	4.4	3
75	Draft Genome Sequence of <i>Pseudomonas</i> sp. Strain T2.31D-1, Isolated from a Drilling Core Sample Obtained 414 Meters below Surface in the Iberian Pyrite Belt. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	3
76	Methanogenesis at High Temperature, High Ionic Strength and Low pH in the Volcanic Area of Dallol, Ethiopia. <i>Microorganisms</i> , 2021, 9, 1231.	3.6	3
77	Hydrogeochemical Variability of the Acidic Springs in the Rio Tinto Headwaters. <i>Water (Switzerland)</i> , 2021, 13, 2861.	2.7	3
78	Unveiling microbial preservation under hyperacidic and oxidizing conditions in the Oligocene Rio Tinto deposit. <i>Scientific Reports</i> , 2021, 11, 21543.	3.3	2
79	Draft Genome Sequence of <i>Shewanella</i> sp. Strain T2.3D-1.1, Isolated from 121.8 Meters Deep in the Subsurface of the Iberian Pyrite Belt. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.6	2
80	<i>Acidophiles and Astrobiology.</i> , 2016, , 285-300.		1
81	Draft Genome Sequence of <i>Brevundimonas</i> sp. Strain T2.26MG-97, Isolated from a Rock Core Sample from 492.6 Meters Deep on the Subsurface of the Iberian Pyrite Belt. <i>Microbiology Resource Announcements</i> , 2019, 8, .	0.6	1
82	<i>Extremofiles 2.0.</i> <i>Microorganisms</i> , 2021, 9, 784.	3.6	0
83	<i>Chaotropicity.</i> , 2022, , 1-2.		0