

Irene Sanchez-Andrea

List of Publications by Citations

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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.

44
papers

1,206
citations

20
h-index

34
g-index

46
ext. papers

1,799
ext. citations

5.9
avg, IF

4.77
L-index

#	Paper	IF	Citations
44	Sulfate reduction at low pH to remediate acid mine drainage. <i>Journal of Hazardous Materials</i> , 2014 , 269, 98-109	12.8	223
43	Microbial diversity in anaerobic sediments at Rio Tinto, a naturally acidic environment with a high heavy metal content. <i>Applied and Environmental Microbiology</i> , 2011 , 77, 6085-93	4.8	135
42	<i>Desulfosporosinus acididurans</i> sp. nov.: an acidophilic sulfate-reducing bacterium isolated from acidic sediments. <i>Extremophiles</i> , 2015 , 19, 39-47	3	81
41	Prospects for harnessing biocide resistance for bioremediation and detoxification. <i>Science</i> , 2018 , 360, 743-746	33.3	68
40	The reductive glycine pathway allows autotrophic growth of <i>Desulfovibrio desulfuricans</i> . <i>Nature Communications</i> , 2020 , 11, 5090	17.4	62
39	Isolation and genetic identification of PAH degrading bacteria from a microbial consortium. <i>Biodegradation</i> , 2009 , 20, 789-800	4.1	56
38	Enrichment and isolation of acidophilic sulfate-reducing bacteria from Tinto River sediments. <i>Environmental Microbiology Reports</i> , 2013 , 5, 672-8	3.7	55
37	Quantification of Tinto River sediment microbial communities: importance of sulfate-reducing bacteria and their role in attenuating acid mine drainage. <i>Applied and Environmental Microbiology</i> , 2012 , 78, 4638-45	4.8	49
36	Towards sustainable feedstocks: A guide to electron donors for microbial carbon fixation. <i>Current Opinion in Biotechnology</i> , 2018 , 50, 195-205	11.4	40
35	Sulfur Reduction in Acid Rock Drainage Environments. <i>Environmental Science & Technology</i> , 2015 , 49, 11746-55	10.3	39
34	Bioremediation of acid mine drainage coupled with domestic wastewater treatment. <i>Water Science and Technology</i> , 2012 , 66, 2425-31	2.2	34
33	Screening of anaerobic activities in sediments of an acidic environment: Tinto River. <i>Extremophiles</i> , 2012 , 16, 829-39	3	27
32	<i>Desulfurella amilsii</i> sp. nov., a novel acidotolerant sulfur-respiring bacterium isolated from acidic river sediments. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016 , 66, 1249-1253	2.2	25
31	From RB Tinto to Mars: the terrestrial and extraterrestrial ecology of acidophiles. <i>Advances in Applied Microbiology</i> , 2011 , 77, 41-70	4.9	24
30	Insight into the sulfur metabolism of <i>Desulfurella amilsii</i> by differential proteomics. <i>Environmental Microbiology</i> , 2019 , 21, 209-225	5.2	24
29	<i>Ercella succinigenes</i> gen. nov., sp. nov., an anaerobic succinate-producing bacterium. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014 , 64, 2449-2454	2.2	22
28	Anaerobic Degradation of Sulfated Polysaccharides by Two Novel Strains Isolated From Black Sea Sediment. <i>Frontiers in Microbiology</i> , 2019 , 10, 253	5.7	21

27	Genome Sequence of Strain TR1 and Comparative Genomics of Family. <i>Frontiers in Microbiology</i> , 2017 , 8, 222	5.7	21
26	<i>Microbacter margulisiae</i> gen. nov., sp. nov., a propionigenic bacterium isolated from sediments of an acid rock drainage pond. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2014 , 64, 3936-3942	2.2	21
25	The bacterial sulfur cycle in expanding dysoxic and euxinic marine waters. <i>Environmental Microbiology</i> , 2021 , 23, 2834-2857	5.2	20
24	Description of <i>Trichococcus ilyis</i> sp. nov. by combined physiological and in silico genome hybridization analyses. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2016 , 66, 3957-3963	2.3	18
23	Enrichment of sulfidogenic bacteria from the human intestinal tract. <i>FEMS Microbiology Letters</i> , 2017 , 364,	2.9	17
22	Redox Sensing within the Genus. <i>Frontiers in Microbiology</i> , 2017 , 8, 2568	5.7	15
21	A case in support of implementing innovative bio-processes in the metal mining industry. <i>FEMS Microbiology Letters</i> , 2016 , 363,	2.9	15
20	Lysine and novel hydroxylysine lipids in soil bacteria: amino acid membrane lipid response to temperature and pH in <i>Pseudopedobacter saltans</i> . <i>Frontiers in Microbiology</i> , 2015 , 6, 637	5.7	13
19	Ecophysiology and Application of Acidophilic Sulfur-Reducing Microorganisms. <i>Grand Challenges in Biology and Biotechnology</i> , 2016 , 141-175	2.4	13
18	Dissimilatory reduction of sulfate and zero-valent sulfur at low pH and its significance for bioremediation and metal recovery. <i>Advances in Microbial Physiology</i> , 2019 , 75, 205-231	4.4	11
17	Co-culture of a Novel Fermentative Bacterium, gen. nov. sp. nov., With the Sulfur Reducer for Enhanced Sulfidogenesis. <i>Frontiers in Microbiology</i> , 2018 , 9, 3108	5.7	10
16	Microbial Geochemistry of the Acidic Saline Pit Lake of Brunita Mine (La Unión, SE Spain). <i>Mine Water and the Environment</i> , 2020 , 39, 535-555	2.4	8
15	Bacterial glycerol oxidation coupled to sulfate reduction at neutral and acidic pH. <i>Journal of General and Applied Microbiology</i> , 2018 , 64, 1-8	1.5	8
14	Biosulfidogenesis Mediates Natural Attenuation in Acidic Mine Pit Lakes. <i>Microorganisms</i> , 2020 , 8,	4.9	7
13	Novel haloalkaliphilic methanotrophic bacteria: An attempt for enhancing methane bio-refinery. <i>Journal of Environmental Management</i> , 2019 , 231, 1091-1099	7.9	6
12	gen. nov., sp. nov., and sp. nov., Two Marine Anaerobes of the fam. nov. Producing Sulfated Glycosaminoglycan-like Exopolymers. <i>Microorganisms</i> , 2020 , 8,	4.9	4
11	<i>Eubacterium maltosivorans</i> sp. nov., a novel human intestinal acetogenic and butyrogenic bacterium with a versatile metabolism. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2018 ,	2.2	3
10	Organic Matter Type Defines the Composition of Active Microbial Communities Originating From Anoxic Baltic Sea Sediments. <i>Frontiers in Microbiology</i> , 2021 , 12, 628301	5.7	3

9	Comparative genomics and proteomics of <i>Eubacterium maltosivorans</i> : functional identification of trimethylamine methyltransferases and bacterial microcompartments in a human intestinal bacterium with a versatile lifestyle.. <i>Environmental Microbiology</i> , 2022 ,	5.2	2
8	An integrated green methodology for the continuous biological removal and fixation of arsenic from acid wastewater through the GAC-catalyzed As(III) oxidation. <i>Chemical Engineering Journal</i> , 2021 , 421, 127758	14.7	2
7	In search of sulfate-reducing consortia able to degrade acetate under acidic conditions. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 1228-1236	3.5	2
6	Effects of metals on activity and community of sulfate-reducing bacterial enrichments and the discovery of a new heavy metal-resistant SRB from Santos Port sediment (Sã Paulo, Brazil). <i>Environmental Science and Pollution Research</i> , 2021 , 1	5.1	1
5	Sulfur Reduction at Hyperthermoacidophilic Conditions with Mesophilic Anaerobic Sludge as the Inoculum. <i>Environmental Science & Technology</i> , 2020 , 54, 14656-14663	10.3	0
4	Acetotrophic sulfate-reducing consortia develop active biofilms on zeolite and glass beads in batch cultures at initial pH 3. <i>Applied Microbiology and Biotechnology</i> , 2021 , 105, 5213-5227	5.7	0
3	Anaerobic microbial methanol conversion in marine sediments. <i>Environmental Microbiology</i> , 2021 , 23, 1348-1362	5.2	0
2	Acetate Degradation at Low pH by the Moderately Acidophilic Sulfate Reducer gen. nov. sp. nov.. <i>Frontiers in Microbiology</i> , 2022 , 13, 816605	5.7	0
1	Ercella 2019 , 1-5		