

Maria C Costa

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.

59
papers

1,196
citations

22
h-index

32
g-index

62
ext. papers

1,349
ext. citations

5.1
avg, IF

4.45
L-index

#	Paper	IF	Citations
59	Characterization and activity studies of highly heavy metal resistant sulphate-reducing bacteria to be used in acid mine drainage decontamination. <i>Journal of Hazardous Materials</i> , 2009 , 166, 706-13	12.8	114
58	Oxidative leaching process with cupric ion in hydrochloric acid media for recovery of Pd and Rh from spent catalytic converters. <i>Journal of Hazardous Materials</i> , 2014 , 278, 82-90	12.8	61
57	Wine wastes as carbon source for biological treatment of acid mine drainage. <i>Chemosphere</i> , 2009 , 75, 831-6	8.4	59
56	Treatment of Acid Mine Drainage by Sulphate-reducing Bacteria Using Low Cost Matrices. <i>Water, Air, and Soil Pollution</i> , 2008 , 189, 149-162	2.6	50
55	Bioremediation of Acid Mine Drainage Using Acidic Soil and Organic Wastes for Promoting Sulphate-Reducing Bacteria Activity on a Column Reactor. <i>Water, Air, and Soil Pollution</i> , 2005 , 165, 325-345	2.6	50
54	Biologically-induced precipitation of sphalerite-wurtzite nanoparticles by sulfate-reducing bacteria: implications for acid mine drainage treatment. <i>Science of the Total Environment</i> , 2012 , 423, 176-84	10.2	49
53	Mechanism of uranium (VI) removal by two anaerobic bacterial communities. <i>Journal of Hazardous Materials</i> , 2010 , 184, 89-96	12.8	39
52	Characterization of a natural and an electro-oxidized arsenopyrite: a study on electrochemical and X-ray photoelectron spectroscopy. <i>International Journal of Mineral Processing</i> , 2002 , 65, 83-108		39
51	Recovery of Platinum and Palladium from Chloride Solutions by a Thiodiglycolamide Derivative. <i>Solvent Extraction and Ion Exchange</i> , 2014 , 32, 78-94	2.5	38
50	Anaerobic bio-removal of uranium (VI) and chromium (VI): comparison of microbial community structure. <i>Journal of Hazardous Materials</i> , 2010 , 176, 1065-72	12.8	36
49	Solvent Extraction of Iron(III) from Hydrochloric Acid Solutions Using N,N?-Dimethyl-N,N?-diphenylmalonamide and N,N?-Dimethyl-N,N?-diphenyltetradecylmalonamide. <i>Solvent Extraction and Ion Exchange</i> , 2003 , 21, 653-686	2.5	34
48	Performance and bacterial community shifts during bioremediation of acid mine drainage from two Portuguese mines. <i>International Biodeterioration and Biodegradation</i> , 2011 , 65, 972-981	4.8	30
47	Biological sulphate reduction using food industry wastes as carbon sources. <i>Biodegradation</i> , 2009 , 20, 559-67	4.1	29
46	Putative Role of Flavobacterium, Dokdonella and Methylophilus Strains in Paracetamol Biodegradation. <i>Water, Air, and Soil Pollution</i> , 2018 , 229, 1	2.6	26
45	Start-up, adjustment and long-term performance of a two-stage bioremediation process, treating real acid mine drainage, coupled with biosynthesis of ZnS nanoparticles and ZnS/TiO ₂ nanocomposites. <i>Minerals Engineering</i> , 2015 , 75, 85-93	4.9	26
44	Synthesis of nanocrystalline ZnS using biologically generated sulfide. <i>Hydrometallurgy</i> , 2012 , 117-118, 57-63	4	26
43	Bromate removal by anaerobic bacterial community: mechanism and phylogenetic characterization. <i>Journal of Hazardous Materials</i> , 2011 , 197, 237-43	12.8	26

42	Clostridia initiate heavy metal bioremoval in mixed sulfidogenic cultures. <i>Environmental Science & Technology</i> , 2014 , 48, 3378-85	10.3	25
41	Liquid-Liquid Extraction of Platinum from Chloride Media by N,N?-Dimethyl-N,N?-Dicyclohexyltetradecylmalonamide. <i>Solvent Extraction and Ion Exchange</i> , 2013 , 31, 12-23	2.5	24
40	The Solvent Extraction Performance of N,NEDimethyl-N,NEDibutylmalonamide Towards Platinum and Palladium in Chloride Media. <i>Separation Science and Technology</i> , 2014 , 49, 966-973	2.5	23
39	Production of irrigation water from bioremediation of acid mine drainage: comparing the performance of two representative systems. <i>Journal of Cleaner Production</i> , 2010 , 18, 248-253	10.3	23
38	Solvent Extraction of Iron(III) from Acidic Chloride Media Using N,N?-Dimethyl-N,N?-dibutylmalonamide. <i>Separation Science and Technology</i> , 2005 , 39, 3573-3599	2.5	22
37	A bacterial consortium isolated from an Icelandic fumarole displays exceptionally high levels of sulfate reduction and metals resistance. <i>Journal of Hazardous Materials</i> , 2011 , 187, 362-70	12.8	21
36	Effect of uranium (VI) on two sulphate-reducing bacteria cultures from a uranium mine site. <i>Science of the Total Environment</i> , 2010 , 408, 2621-8	10.2	21
35	Marble stone processing powder residue as chemical adjuvant for the biologic treatment of acid mine drainage. <i>Process Biochemistry</i> , 2009 , 44, 477-480	4.8	20
34	Photodegradation of chloramphenicol and paracetamol using PbS/TiO ₂ nanocomposites produced by green synthesis. <i>Journal of the Iranian Chemical Society</i> , 2020 , 17, 2013-2031	2	19
33	Green synthesis of covellite nanocrystals using biologically generated sulfide: potential for bioremediation systems. <i>Journal of Environmental Management</i> , 2013 , 128, 226-32	7.9	17
32	Dynamics of bacterial community in up-flow anaerobic packed bed system for acid mine drainage treatment using wine wastes as carbon source. <i>International Biodeterioration and Biodegradation</i> , 2011 , 65, 78-84	4.8	17
31	The Solvent Extraction of Iron(III) from Chloride Solutions by N,N?-Tetrasubstituted Malonamides: Structure-Activity Relationships. <i>Solvent Extraction and Ion Exchange</i> , 2007 , 25, 463-484	2.5	17
30	Application of N,N?-tetrasubstituted malonamides to the recovery of iron(III) from chloride solutions. <i>Hydrometallurgy</i> , 2005 , 77, 103-108	4	17
29	Growth, photosynthetic pigments, phenolic content and biological activities of <i>Foeniculum vulgare</i> Mill., <i>Anethum graveolens</i> L. and <i>Pimpinella anisum</i> L. (Apiaceae) in response to zinc. <i>Industrial Crops and Products</i> , 2017 , 109, 627-636	5.9	16
28	N , N ?-tetrasubstituted succinamides as new molecules for liquid-liquid extraction of Pt(IV) from chloride media. <i>Separation and Purification Technology</i> , 2016 , 158, 409-416	8.3	16
27	Profiling of antioxidant potential and phytoconstituents of <i>Plantago coronopus</i> . <i>Brazilian Journal of Biology</i> , 2017 , 77, 632-641	1.5	15
26	Biological synthesis of nanosized sulfide semiconductors: current status and future prospects. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 8283-302	5.7	15
25	N,N?-dimethyl-N,N?-dicyclohexylsuccinamide: A novel molecule for the separation and recovery of Pd(II) by liquid-liquid extraction. <i>Separation and Purification Technology</i> , 2018 , 201, 96-105	8.3	14

24	Electro-oxidation as a pre-treatment for gold recovery. <i>Hydrometallurgy</i> , 1996 , 40, 99-110	4	14
23	Separation and recovery of Pd and Fe as nanosized metal sulphides by combining solvent extraction with biological strategies based on the use of sulphate-reducing bacteria. <i>Separation and Purification Technology</i> , 2019 , 212, 747-756	8.3	10
22	Aluminum and sulphate removal by a highly Al-resistant dissimilatory sulphate-reducing bacteria community. <i>Biodegradation</i> , 2012 , 23, 693-703	4.1	9
21	A bridge between liquid-liquid extraction and the use of bacterial communities for palladium and platinum recovery as nanosized metal sulphides. <i>Hydrometallurgy</i> , 2016 , 163, 40-48	4	9
20	Leaching efficiency and kinetics of the recovery of palladium and rhodium from a spent auto-catalyst in HCl/CuCl media. <i>Environmental Technology (United Kingdom)</i> , 2020 , 41, 2293-2304	2.6	8
19	Zantaz honey monoflorality—Chemometric applied to the routinely assessed parameters. <i>LWT - Food Science and Technology</i> , 2019 , 106, 29-36	5.4	7
18	Design of remediation pilot plants for the treatment of industrial metal-bearing effluents (BIOMETAL DEMO project): Lab tests. <i>Hydrometallurgy</i> , 2017 , 168, 103-115	4	7
17	Recovery of gold(0) nanoparticles from aqueous solutions using effluents from a bioremediation process. <i>RSC Advances</i> , 2016 , 6, 112784-112794	3.7	7
16	Palladium recovery as nanoparticles by an anaerobic bacterial community. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, n/a-n/a	3.5	6
15	Prokaryotic diversity in stream sediments affected by acid mine drainage. <i>Extremophiles</i> , 2020 , 24, 809-819	3.9	6
14	A review of plant metabolites with metal interaction capacity: a green approach for industrial applications. <i>BioMetals</i> , 2021 , 34, 761-793	3.4	6
13	Biotechnologically obtained nanocomposites: A practical application for photodegradation of Safranin-T under UV-Vis and solar light. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2015 , 50, 996-1010	2.3	5
12	Performance and Bacterial Community Shifts During Phosphogypsum Biotransformation. <i>Water, Air, and Soil Pollution</i> , 2016 , 227, 1	2.6	5
11	A meta-taxonomic investigation of the prokaryotic diversity of water bodies impacted by acid mine drainage from the Sã Domingos mine in southern Portugal. <i>Extremophiles</i> , 2019 , 23, 821-834	3	5
10	Anaerobic biodegradation of fluoxetine using a high-performance bacterial community. <i>Anaerobe</i> , 2021 , 68, 102356	2.8	4
9	Potential of industrial by-products and wastes from the Iberian Peninsula as carbon sources for sulphate-reducing bacteria. <i>International Journal of Environmental Science and Technology</i> , 2019 , 16, 4719-4738	3.3	3
8	Feasibility of Co-Treating Olive Mill Wastewater and Acid Mine Drainage. <i>Mine Water and the Environment</i> , 2020 , 39, 859-880	2.4	3
7	Isolation and characterization of bacteria from activated sludge capable of degrading 17 β -ethinylestradiol, a contaminant of high environmental concern. <i>Microbiology (United Kingdom)</i> , 2021 , 167,	2.9	3

6	Biodegradation of Paracetamol by Some Gram-Positive Bacterial Isolates. <i>Current Microbiology</i> , 2021 , 78, 2774-2786	2.4	2
5	Insights into Ionizing-Radiation-Resistant Bacteria S-Layer Proteins and Nanobiotechnology for Bioremediation of Hazardous and Radioactive Waste 2016 ,		2
4	An autochthonous aerobic bacterial community and its cultivable isolates capable of degrading fluoxetine. <i>Journal of Chemical Technology and Biotechnology</i> , 2021 , 96, 2813-2826	3.5	1
3	A New Application of Solvent Extraction to Separate Copper from Extreme Acid Mine Drainage Producing Solutions for Electrochemical and Biological Recovery Processes. <i>Mine Water and the Environment</i> ,1	2.4	0
2	Application of urea-agarose gel electrophoresis to select non-redundant 16S rRNAs for taxonomic studies: palladium(II) removal bacteria. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 2721-35	5.7	
1	Biometal Demonstration Plant for the Biological Rehabilitation of Metal Bearing-Wastewaters (Biometal Demo). <i>Advanced Materials Research</i> , 2015 , 1130, 535-538	0.5	