

MarÃ-a Dolores RoldÃ;n Ruiz

List of Publications by Year in descending order

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60
papers

2,924
citations

159585

30
h-index

168389

53
g-index

62
all docs

62
docs citations

62
times ranked

3221
citing authors

#	ARTICLE	IF	CITATIONS
1	Reduction of polynitroaromatic compounds: the bacterial nitroreductases. FEMS Microbiology Reviews, 2008, 32, 474-500.	8.6	339
2	Nitrate reduction and the nitrogen cycle in archaea. Microbiology (United Kingdom), 2004, 150, 3527-3546.	1.8	289
3	Spectroscopic Characterization of a Novel Multiheme-Type Cytochrome Widely Implicated in Bacterial Electron Transport. Journal of Biological Chemistry, 1998, 273, 28785-28790.	3.4	129
4	Bacterial Degradation of Cyanide and Its Metal Complexes under Alkaline Conditions. Applied and Environmental Microbiology, 2005, 71, 940-947.	3.1	121
5	Bacterial nitrate assimilation: gene distribution and regulation. Biochemical Society Transactions, 2011, 39, 1838-1843.	3.4	112
6	Biodegradation of cyanide wastes from mining and jewellery industries. Current Opinion in Biotechnology, 2016, 38, 9-13.	6.6	106
7	Isolation of periplasmic nitrate reductase genes from Rhodobacter sphaeroides DSM 158: structural and functional differences among prokaryotic nitrate reductases. Molecular Microbiology, 1996, 19, 1307-1318.	2.5	104
8	A Low-Redox Potential Heme in the Dinuclear Center of Bacterial Nitric Oxide Reductase: Implications for the Evolution of Energy-Conserving Heme ²⁺ Copper Oxidases. Biochemistry, 1999, 38, 13780-13786.	2.5	102
9	Alkaline cyanide degradation by Pseudomonas pseudoalcaligenes CECT5344 in a batch reactor. Influence of pH. Journal of Hazardous Materials, 2010, 179, 72-78.	12.4	98
10	Exploring anaerobic environments for cyanide and cyano-derivatives microbial degradation. Applied Microbiology and Biotechnology, 2018, 102, 1067-1074.	3.6	71
11	Hydroxylamine Assimilation by Rhodobacter capsulatus E1F1. Journal of Biological Chemistry, 2004, 279, 45485-45494.	3.4	65
12	Chlorate and nitrate reduction in the phototrophic bacteria Rhodobacter capsulatus and Rhodobacter sphaeroides. Current Microbiology, 1994, 29, 241-245.	2.2	63
13	The diversity of redox proteins involved in bacterial heterotrophic nitrification and aerobic denitrification. Biochemical Society Transactions, 1998, 26, 401-408.	3.4	62
14	A composite biochemical system for bacterial nitrate and nitrite assimilation as exemplified by <i>Paracoccus denitrificans</i> . Biochemical Journal, 2011, 435, 743-753.	3.7	55
15	Characterization of the <i>Pseudomonas pseudoalcaligenes</i> CECT5344 Cyanase, an Enzyme That Is Not Essential for Cyanide Assimilation. Applied and Environmental Microbiology, 2008, 74, 6280-6288.	3.1	54
16	Effects of Boron on Proton Transport and Membrane Properties of Sunflower (<i>Helianthus annuus</i> L.) Cell Microsomes. Plant Physiology, 1993, 103, 763-769.	4.8	51
17	Regulation of nap Gene Expression and Periplasmic Nitrate Reductase Activity in the Phototrophic Bacterium Rhodobacter sphaeroides DSM158. Journal of Bacteriology, 2002, 184, 1693-1702.	2.2	48
18	Alkaline cyanide biodegradation by Pseudomonas pseudoalcaligenes CECT5344. Biochemical Society Transactions, 2005, 33, 168-169.	3.4	47

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19	Degradation of p -nitrophenol by the phototrophic bacterium <i>Rhodobacter capsulatus</i> . <i>Archives of Microbiology</i> , 1997, 169, 36-42.	2.2	46
20	Spatial navigation impairment in patients with refractory temporal lobe epilepsy: Evidence from a new virtual reality-based task. <i>Epilepsy and Behavior</i> , 2011, 22, 364-369.	1.7	44
21	Bacterial cyanide degradation is under review: <i>Pseudomonas pseudoalcaligenes</i> CECT5344, a case of an alkaliphilic cyanotroph. <i>Biochemical Society Transactions</i> , 2011, 39, 269-274.	3.4	43
22	In vivo and in vitro effects of boron on the plasma membrane proton pump of sunflower roots. <i>Physiologia Plantarum</i> , 1992, 84, 49-54.	5.2	42
23	Exploring the Denitrification Proteome of <i>Paracoccus denitrificans</i> PD1222. <i>Frontiers in Microbiology</i> , 2018, 9, 1137.	3.5	41
24	Identification of two domains and distal histidine ligands to the four haems in the bacterial c-type cytochrome NapC; the prototype connector between quinol/quinone and periplasmic oxido-reductases. <i>Biochemical Journal</i> , 2002, 368, 425-432.	3.7	40
25	Spectral Properties of Bacterial Nitric-oxide Reductase. <i>Journal of Biological Chemistry</i> , 2002, 277, 20146-20150.	3.4	38
26	Draft whole genome sequence of the cyanide-degrading bacterium <i>Pseudomonas pseudoalcaligenes</i> CECT5344. <i>Environmental Microbiology</i> , 2013, 15, 253-270.	3.8	38
27	NapF Is a Cytoplasmic Iron-Sulfur Protein Required for Fe-S Cluster Assembly in the Periplasmic Nitrate Reductase. <i>Journal of Biological Chemistry</i> , 2004, 279, 49727-49735.	3.4	36
28	The assimilatory nitrate reduction system of the phototrophic bacterium <i>Rhodobacter capsulatus</i> E1F1. <i>Biochemical Society Transactions</i> , 2006, 34, 127-129.	3.4	33
29	Cyanide degradation by <i>Pseudomonas pseudoalcaligenes</i> CECT5344 involves a malate:quinone oxidoreductase and an associated cyanide-insensitive electron transfer chain. <i>Microbiology (United Kingdom)</i> 157, 1071-1081. doi:10.1099/mic/0/015710-0	3.4	32
30	Virtual reality tasks disclose spatial memory alterations in fibromyalgia. <i>Rheumatology</i> , 2009, 48, 1273-1278.	1.9	31
31	The <i>Pseudomonas denitrificans</i> NarX-like nitrate and nitrite transporters probing nitrate uptake and nitrate/nitrite exchange mechanisms. <i>Molecular Microbiology</i> , 2017, 103, 117-133.	2.5	30
32	The <i>nit1C</i> gene cluster of <i>Pseudomonas pseudoalcaligenes</i> CECT5344 involved in assimilation of nitriles is essential for growth on cyanide. <i>Environmental Microbiology Reports</i> , 2012, 4, 326-334.	2.4	29
33	Nitrogen Oxyanion-dependent Dissociation of a Two-component Complex That Regulates Bacterial Nitrate Assimilation. <i>Journal of Biological Chemistry</i> , 2013, 288, 29692-29702.	3.4	29
34	Molecular and Regulatory Properties of the Nitrate Reducing Systems of <i>Rhodobacter</i> . <i>Current Microbiology</i> , 1996, 33, 341-346.	2.2	28
35	Spatial memory alterations in children with epilepsy of genetic origin or unknown cause. <i>Epileptic Disorders</i> , 2014, 16, 203-207.	1.3	28
36	Complete genome sequence of the cyanide-degrading bacterium <i>Pseudomonas pseudoalcaligenes</i> CECT5344. <i>Journal of Biotechnology</i> , 2014, 175, 67-68.	3.8	28

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37	Assimilation of cyanide and cyano-derivatives by <i>Pseudomonas pseudoalcaligenes</i> CECT5344: from omic approaches to biotechnological applications. <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	28
38	The cyanotrophic bacterium <i>Pseudomonas pseudoalcaligenes</i> CECT5344 responds to cyanide by defence mechanisms against iron deprivation, oxidative damage and nitrogen stress. <i>Environmental Microbiology</i> , 2007, 9, 1541-1549.	3.8	27
39	DNA microarray analysis of the cyanotroph <i>Pseudomonas pseudoalcaligenes</i> CECT5344 in response to nitrogen starvation, cyanide and a jewelry wastewater. <i>Journal of Biotechnology</i> , 2015, 214, 171-181.	3.8	25
40	Quantitative proteomic analysis of <i>Pseudomonas pseudoalcaligenes</i> CECT5344 in response to industrial cyanide-containing wastewaters using Liquid Chromatography-Mass Spectrometry/Mass Spectrometry (LC-MS/MS). <i>PLoS ONE</i> , 2017, 12, e0172908.	2.5	25
41	Transcriptional and translational adaptation to aerobic nitrate anabolism in the denitrifier <i>Paracoccus denitrificans</i> . <i>Biochemical Journal</i> , 2017, 474, 1769-1787.	3.7	24
42	Expression and characterization of the assimilatory NADH-nitrite reductase from the phototrophic bacterium <i>Rhodobacter capsulatus</i> E1F1. <i>Archives of Microbiology</i> , 2006, 186, 339-344.	2.2	22
43	Finished genome sequence and methylome of the cyanide-degrading <i>Pseudomonas pseudoalcaligenes</i> strain CECT5344 as resolved by single-molecule real-time sequencing. <i>Journal of Biotechnology</i> , 2016, 232, 61-68.	3.8	20
44	Cyanate Assimilation by the Alkaliphilic Cyanide-Degrading Bacterium <i>Pseudomonas pseudoalcaligenes</i> CECT5344: Mutational Analysis of the cyn Gene Cluster. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3008.	4.1	20
45	Putative small RNAs controlling detoxification of industrial cyanide-containing wastewaters by <i>Pseudomonas pseudoalcaligenes</i> CECT5344. <i>PLoS ONE</i> , 2019, 14, e0212032.	2.5	20
46	<i>Pseudomonas pseudoalcaligenes</i> CECT5344, a cyanide-degrading bacterium with by-product (polyhydroxyalkanoates) formation capacity. <i>Microbial Cell Factories</i> , 2015, 14, 77.	4.0	18
47	Effect of pH on the denitrification proteome of the soil bacterium <i>Paracoccus denitrificans</i> PD1222. <i>Scientific Reports</i> , 2021, 11, 17276.	3.3	18
48	Regulation and Characterization of Two Nitroreductase Genes, nprA and nprB , of <i>Rhodobacter capsulatus</i> . <i>Applied and Environmental Microbiology</i> , 2005, 71, 7643-7649.	3.1	17
49	Poly(3-hydroxybutyrate) hyperproduction by a global nitrogen regulator NtrB mutant strain of <i>Paracoccus denitrificans</i> PD1222. <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	17
50	Electron transfer to the active site of the bacterial nitric oxide reductase is controlled by ligand binding to heme b3. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2011, 1807, 451-457.	1.0	15
51	The NprA nitroreductase required for 2,4-dinitrophenol reduction in <i>Rhodobacter capsulatus</i> is a dihydropteridine reductase. <i>Environmental Microbiology</i> , 2008, 10, 3174-3183.	3.8	14
52	Effect of xenobiotics on inorganic nitrogen assimilation by the phototrophic bacterium <i>Rhodobacter capsulatus</i> E1F1. <i>Current Microbiology</i> , 1994, 29, 119-122.	2.2	11
53	Role of the Dihydrodipicolinate Synthase DapA1 on Iron Homeostasis During Cyanide Assimilation by the Alkaliphilic Bacterium <i>Pseudomonas pseudoalcaligenes</i> CECT5344. <i>Frontiers in Microbiology</i> , 2020, 11, 28.	3.5	10
54	Interactions Between Nitrate Assimilation and 2,4-Dinitrophenol Cometabolism in <i>Rhodobacter capsulatus</i> E1F1. <i>Current Microbiology</i> , 2006, 53, 37-42.	2.2	9

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55	Effect of sodium chloride on growth, ion content, and hydrogen ion extrusion activity of sunflower and jojoba roots. <i>Journal of Plant Nutrition</i> , 1993, 16, 1047-1058.	1.9	8
56	Bioremediation of cyanide-containing wastes. <i>EMBO Reports</i> , 2021, 22, e53720.	4.5	8
57	Isolation of bacterial strains able to degrade biphenyl, diphenyl ether and the heat transfer fluid used in thermo-solar plants. <i>New Biotechnology</i> , 2017, 35, 35-41.	4.4	7
58	Genetic Relationships in an International Collection of <i>Puccinia horiana</i> Isolates Based on Newly Identified Molecular Markers and Demonstration of Recombination. <i>Phytopathology</i> , 2013, 103, 1169-1179.	2.2	6
59	Alternative Pathway for 3-Cyanoalanine Assimilation in <i>Pseudomonas pseudoalcaligenes</i> CECT5344 under Noncyanotrophic Conditions. <i>Microbiology Spectrum</i> , 2021, 9, e0077721.	3.0	3
60	Editorial to the thematic issue new insights into the nitrogen cycle. <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	0