Rosa MarÃ-a MartÃ-nez-Espinosa

List of Publications by Year
in descending order

76 papers	1,948 citations	236925 25 h-index	289244 40 g-index
79 all docs	79 docs citations	79 times ranked	1810 citing authors

#	ARTICLE	IF	CITATIONS
1	Hypersaline environments as natural sources of microbes with potential applications in biotechnology: The case of solar evaporation systems to produce salt in Alicante County (Spain).. Current Research in Microbial Sciences, 2022, 3, 100136.	2.3	8
2	Industrial applications of enzymes from haloarchaea. , 2022, , 289-320.		0
3	Haloarchaea: A Promising Biosource for Carotenoid Production. Advances in Experimental Medicine and Biology, 2021, 1261, 165-174.	1.6	5
4	Haloferax mediterranei Cells as C50 Carotenoid Factories. Marine Drugs, 2021, 19, 100.	4.6	14
5	Haloarchaea as Cell Factories to Produce Bioplastics. Marine Drugs, 2021, 19, 159.	4.6	24
6	Insights on Cadmium Removal by Bioremediation: The Case of Haloarchaea. Microbiology Research, 2021, 12, 354-375.	1.9	11
7	Analysis of Polyhydroxyalkanoates Granules in Haloferax mediterranei by Double-Fluorescence Staining with Nile Red and SYBR Green by Confocal Fluorescence Microscopy. Polymers, 2021, 13, 1582.	4.5	13
8	Ubiquitousness of Haloferax and Carotenoid Producing Genes in Arabian Sea Coastal Biosystems of India. Marine Drugs, 2021, 19, 442.	4.6	5
9	In Silico Analysis of the Enzymes Involved in Haloarchaeal Denitrification. Biomolecules, 2021, 11, 1043.	4.0	2
10	Personalized Diet in Obesity: A Quasi-Experimental Study on Fat Mass and Fat-Free Mass Changes. Healthcare (Switzerland), 2021, 9, 1101.	2.0	1
11	Distribution of Denitrification among Haloarchaea: A Comprehensive Study. Microorganisms, 2021, 9, 1669.	3.6	6
12	Halophilic Carotenoids and Breast Cancer: From Salt Marshes to Biomedicine. Marine Drugs, 2021, 19, 594.	4.6	10
13	Controversy over the Use of â€œShade Coversâ€•to Avoid Water Evaporation in Water Reservoirs. Sustainability, 2021, 13, 11234.	3.2	7
14	New guidelines for testing â€œDeep eutectic solventsâ€•toxicity and their effects on the environment and living beings. Science of the Total Environment, 2020, 704, 135382.	8.0	66
15	Exploring the Molecular Machinery of Denitrification in Haloferax mediterranei Through Proteomics. Frontiers in Microbiology, 2020, 11, 605859.	3.5	8
16	Carotenoids as a Protection Mechanism against Oxidative Stress in Haloferax mediterranei. Antioxidants, 2020, 9, 1060.	5.1	28
17	Haloferax mediterranei, an Archaeal Model for Denitrification in Saline Systems, Characterized Through Integrated Physiological and Transcriptional Analyses. Frontiers in Microbiology, 2020, 11, 768.	3.5	12
18	Deciphering Pathways for Carotenogenesis in Haloarchaea. Molecules, 2020, 25, 1197.	3.8	16

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19	Evidences from Clinical Trials in Down Syndrome: Diet, Exercise and Body Composition. International Journal of Environmental Research and Public Health, 2020, 17, 4294.	2.6	17
20	Microorganisms and Their Metabolic Capabilities in the Context of the Biogeochemical Nitrogen Cycle at Extreme Environments. International Journal of Molecular Sciences, 2020, 21, 4228.	4.1	31
21	Heterologous and Homologous Expression of Proteins from Haloarchaea: Denitrification as Case of Study. International Journal of Molecular Sciences, 2020, 21, 82.	4.1	18
22	Catalase as a Molecular Target for Male Infertility Diagnosis and Monitoring: An Overview. Antioxidants, 2020, 9, 78.	5.1	28
23	Introductory Chapter: A Brief Overview on Fermentation and Challenges for the Next Future. , 2020, , .		6
24	Denitrifying haloarchaea within the genus Haloferax display divergent respiratory phenotypes, with implications for their release of nitrogenous gases. Environmental Microbiology, 2019, 21, 427-436.	3.8	17
25	DMSO Reductase Family: Phylogenetics and Applications of Extremophiles. International Journal of Molecular Sciences, 2019, 20, 3349.	4.1	27
26	Multicomponent synthesis of sulfonamides from triarylbismuthines, nitro compounds and sodium metabisulfite in deep eutectic solvents. Green Chemistry, 2019, 21, 4127-4132.	9.0	57
27	Haloarchaeal Carotenoids: Healthy Novel Compounds from Extreme Environments. Marine Drugs, 2019, 17, 524.	4.6	72
28	Practical Guidance for Interventions in Adults with Metabolic Syndrome: Diet and Exercise vs. Changes in Body Composition. International Journal of Environmental Research and Public Health, 2019, 16, 3481.	2.6	23
29	Denitrifying haloarchaea: sources and sinks of nitrogenous gases. FEMS Microbiology Letters, 2018, 365, .	1.8	19
30	Recent Trend on Bioremediation of Polluted Salty Soils and Waters Using Haloarchaea. , 2018, , .		5
31	Optimization of Growth and Carotenoid Production by Haloferax mediterranei Using Response Surface Methodology. Marine Drugs, 2018, 16, 372.	4.6	33
32	Exploring the Valuable Carotenoids for the Large-Scale Production by Marine Microorganisms. Marine Drugs, 2018, 16, 203.	4.6	105
33	New Insights about How to Make an Intervention in Children and Adolescents with Metabolic Syndrome: Diet, Exercise vs. Changes in Body Composition. A Systematic Review of RCT. Nutrients, 2018, 10, 878.	4.1	25
34	Effects of the Usage of l-Cysteine (l-Cys) on Human Health. Molecules, 2018, 23, 575.	3.8	67
35	Extremophile Enzymes and Biotechnology. , 2018, , 227-248.		5
36	Denitrification in Extreme Environments. , 2018, , 209-226.		2

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37	Nitrate reduction in Haloferax alexandrinus: the case of assimilatory nitrate reductase. Extremophiles, 2017, 21, 551-561.	2.3	11
38	Analysis of multiple haloarchaeal genomes suggests that the quinoneâ€dependent respiratory nitric oxide reductase is an important source of nitrous oxide in hypersaline environments. Environmental Microbiology Reports, 2017, 9, 788-796.	2.4	19
39	Anaerobic Metabolism in Haloferax Genus. Advances in Microbial Physiology, 2016, 68, 41-85.	2.4	35
40	Recent Advances in the Nitrogen Metabolism in Haloarchaea and Its Biotechnological Applications. Grand Challenges in Biology and Biotechnology, 2016, , 273-301.	2.4	1
41	EXCHANGE PROGRAMMES AT THE FACULTY OF SCIENCE. UNIVERSITY OF ALICANTE. , 2016, , .		0
42	New Uses of Haloarchaeal Species in Bioremediation Processes. , 2015, , .		12
43	Carotenoids from Haloarchaea and Their Potential in Biotechnology. Marine Drugs, 2015, 13, 5508-5532.	4.6	129
44	Characterisation of chlorate reduction in the haloarchaeon Haloferax mediterranei. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 587-594.	2.4	44
45	Transcriptional profiles of Haloferax mediterranei based on nitrogen availability. Journal of Biotechnology, 2015, 193, 100-107.	3.8	19
46	Ferredoxin-dependent glutamate synthase: involvement in ammonium assimilation in Haloferax mediterranei. Extremophiles, 2014, 18, 147-159.	2.3	15
47	Cu-NirK from Haloferax mediterranei as an example of metalloprotein maturation and exportation via Tat system. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2013, 1834, 1003-1009.	2.3	19
48	Cyclodextrin glycosyltransferase: a key enzyme in the assimilation of starch by the halophilic archaeon Haloferax mediterranei. Extremophiles, 2012, 16, 147-159.	2.3	34
49	Role of the denitrifying Haloarchaea in the treatment of nitrite-brines. International Microbiology, 2012, 15, 111-9.	2.4	29
50	Enzymology and ecology of the nitrogen cycle. Biochemical Society Transactions, 2011, 39, 175-178.	3.4	73
51	A haloarchaeal ferredoxin electron donor that plays an essential role in nitrate assimilation. Biochemical Society Transactions, 2011, 39, 1844-1848.	3.4	8
52	Enzymes from Halophilic Archaea: Open Questions. , 2011, , 359-371.		4
53	Enzymes from Halophilic Archaea: Open Questions. , 2011, , 359-371.		2
54	SufS protein from Haloferax volcanii involved in Fe-S cluster assembly in haloarchaea. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2010, 1804, 1476-1482.	2.3	19

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55	Biodiversity of Archaea and floral of two inland saltern ecosystems in the Alto VinalopÃ³ Valley, Spain. Saline Systems, 2010, 6, 10.	2.0	35
56	NO3 â˜'/NO2 â˜' assimilation in halophilic archaea: physiological analysis, nasA and nasD expressions. Extremophiles, 2009, 13, 785-792.	2.3	20
57	Respiratory nitrate reductase complex from Haloferax mediterranei: applications on salted wastewater treatments and biosensor engineering. New Biotechnology, 2009, 25, S63.	4.4	0
58	Nitrogen metabolism in haloarchaea. Saline Systems, 2008, 4, 9.	2.0	86
59	Organisms of the Nitrogen Cycle Under Extreme Conditions: Low Temperature, Salinity, pH Value and Water Stress. , 2007, , 369-379.		2
60	Nitrate and nitrite removal from salted water byHaloferax mediterranei. Biocatalysis and Biotransformation, 2007, 25, 295-300.	2.0	22
61	Analysis of acidic surface ofHaloferax mediterraneiglucose dehydrogenase by site-directed mutagenesis. FEBS Letters, 2007, 581, 837-842.	2.8	34
62	Look on the positive side! The orientation, identification and bioenergetics of Ã¢Â€Â˜ArchaealÃ¢Â€Â™ membrane-bound nitrate reductases. FEMS Microbiology Letters, 2007, 276, 129-139.	1.8	107
63	Spectopotentiometric properties and salt-dependent thermotolerance of a [2FeÃ¢Â€Â“2S] ferredoxin-involved nitrate assimilation inHaloferax mediterranei. FEMS Microbiology Letters, 2007, 277, 50-55.	1.8	7
64	The effect of ammonium on assimilatory nitrate reduction in the haloarchaeon Haloferax mediterranei. Extremophiles, 2007, 11, 759-767.	2.3	23
65	Respiratory nitrate and nitrite pathway in the denitrifier haloarchaeon Haloferax mediterranei. Biochemical Society Transactions, 2006, 34, 115-117.	3.4	27
66	An octameric prokaryotic glutamine synthetase from the haloarchaeonHaloferax mediterranei. FEMS Microbiology Letters, 2006, 264, 110-116.	1.8	22
67	Identification and transcriptional analysis of nitrate assimilation genes in the halophilic archaeon Haloferax mediterranei. Gene, 2005, 361, 80-88.	2.2	29
68	Respiratory nitrate reductase from haloarchaeon Haloferax mediterranei: biochemical and genetic analysis. Biochimica Et Biophysica Acta - General Subjects, 2004, 1674, 50-59.	2.4	65
69	Nitrate Assimilation in Halophilic Archaea. , 2004, , 193-203.		1
70	NMR studies of a ferredoxin from Haloferax mediterranei and its physiological role in nitrate assimilatory pathway. Biochimica Et Biophysica Acta - General Subjects, 2003, 1623, 47-51.	2.4	11
71	Assimilatory nitrate reductase from the haloarchaeon Haloferax mediterranei: purification and characterisation. FEMS Microbiology Letters, 2001, 204, 381-385.	1.8	67
72	Purification and characterisation of a possible assimilatory nitrite reductase from the halophile archaeonHaloferax mediterranei. FEMS Microbiology Letters, 2001, 196, 113-118.	1.8	48

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73	Assimilatory nitrate reductase from the haloarchaeon Haloferax mediterranei: purification and characterisation. FEMS Microbiology Letters, 2001, 204, 381-385.	1.8	51
74	Biocompounds from Haloarchaea and Their Uses in Biotechnology. , 0, , .		11
75	Haloarchaea May Contribute to the Colour of Avian Plumage in Marine Ecosystems. , 0, , .		0
76	Assessment of Haloferax mediterranei Genome in Search of Copper-Molecular Machinery With Potential Applications for Bioremediation. Frontiers in Microbiology, 0, 13, .	3.5	5