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	Carotenoids from Haloarchaea and Their Potential in Biotechnology. Marine Drugs, 2015, 13, 5508-5532.	4.6	129
2	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
3	Exploring the Valuable Carotenoids for the Large-Scale Production by Marine Microorganisms. Marine Drugs, 2018, 16, 203.	4.6	105
4	Nitrogen metabolism in haloarchaea. Saline Systems, 2008, 4, 9.	2.0	86
5	Enzymology and ecology of the nitrogen cycle. Biochemical Society Transactions, 2011, 39, 175-178.	3.4	73
6	Haloarchaeal Carotenoids: Healthy Novel Compounds from Extreme Environments. Marine Drugs, 2019, 17, 524.	4.6	72
7	Assimilatory nitrate reductase from the haloarchaeon Haloferax mediterranei: purification and characterisation. FEMS Microbiology Letters, 2001, 204, 381-385.	1.8	67
8	Effects of the Usage of l-Cysteine (l-Cys) on Human Health. Molecules, 2018, 23, 575.	3.8	67
9	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
10	Respiratory nitrate reductase from haloarchaeon Haloferax mediterranei: biochemical and genetic analysis. Biochimica Et Biophysica Acta - General Subjects, 2004, 1674, 50-59.	2.4	65
11	Multicomponent synthesis of sulfonamides from triarylbismuthines, nitro compounds and sodium metabisulfite in deep eutectic solvents. Green Chemistry, 2019, 21, 4127-4132.	9.0	57
12	Assimilatory nitrate reductase from the haloarchaeon Haloferax mediterranei: purification and characterisation. FEMS Microbiology Letters, 2001, 204, 381-385.	1.8	51
13	Purification and characterisation of a possible assimilatory nitrite reductase from the halophile archaeonHaloferax mediterranei. FEMS Microbiology Letters, 2001, 196, 113-118.	1.8	48
14	Characterisation of chlorate reduction in the haloarchaeon Haloferax mediterranei. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 587-594.	2.4	44
15	Biodiversity of Archaea and floral of two inland saltern ecosystems in the Alto VinalopÃ³ Valley, Spain. Saline Systems, 2010, 6, 10.	2.0	35
16	Anaerobic Metabolism in Haloferax Genus. Advances in Microbial Physiology, 2016, 68, 41-85.	2.4	35
17	Analysis of acidic surface ofHaloferax mediterraneiglucose dehydrogenase by site-directed mutagenesis. FEBS Letters, 2007, 581, 837-842.	2.8	34
18	Cyclodextrin glycosyltransferase: a key enzyme in the assimilation of starch by the halophilic archaeon Haloferax mediterranei. Extremophiles, 2012, 16, 147-159.	2.3	34

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19	Optimization of Growth and Carotenoid Production by Haloferax mediterranei Using Response Surface Methodology. Marine Drugs, 2018, 16, 372.	4.6	33
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	Identification and transcriptional analysis of nitrate assimilation genes in the halophilic archaeon Haloferax mediterranei. Gene, 2005, 361, 80-88.	2.2	29
22	Role of the denitrifying Haloarchaea in the treatment of nitrite-brines. International Microbiology, 2012, 15, 111-9.	2.4	29
23	Carotenoids as a Protection Mechanism against Oxidative Stress in Haloferax mediterranei. Antioxidants, 2020, 9, 1060.	5.1	28
24	Catalase as a Molecular Target for Male Infertility Diagnosis and Monitoring: An Overview. Antioxidants, 2020, 9, 78.	5.1	28
25	Respiratory nitrate and nitrite pathway in the denitrifier haloarchaeon Haloferax mediterranei. Biochemical Society Transactions, 2006, 34, 115-117.	3.4	27
26	DMSO Reductase Family: Phylogenetics and Applications of Extremophiles. International Journal of Molecular Sciences, 2019, 20, 3349.	4.1	27
27	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
28	Haloarchaea as Cell Factories to Produce Bioplastics. Marine Drugs, 2021, 19, 159.	4.6	24
29	The effect of ammonium on assimilatory nitrate reduction in the haloarchaeon Haloferax mediterranei. Extremophiles, 2007, 11, 759-767.	2.3	23
30	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
31	An octameric prokaryotic glutamine synthetase from the haloarchaeonHaloferax mediterranei. FEMS Microbiology Letters, 2006, 264, 110-116.	1.8	22
32	Nitrate and nitrite removal from salted water byHaloferax mediterranei. Biocatalysis and Biotransformation, 2007, 25, 295-300.	2.0	22
33	NO3 â˜'/NO2 â˜' assimilation in halophilic archaea: physiological analysis, nasA and nasD expressions. Extremophiles, 2009, 13, 785-792.	2.3	20
34	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
35	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
36	Transcriptional profiles of Haloferax mediterranei based on nitrogen availability. Journal of Biotechnology, 2015, 193, 100-107.	3.8	19

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37	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
38	Denitrifying haloarchaea: sources and sinks of nitrogenous gases. FEMS Microbiology Letters, 2018, 365, .	1.8	19
39	Heterologous and Homologous Expression of Proteins from Haloarchaea: Denitrification as Case of Study. International Journal of Molecular Sciences, 2020, 21, 82.	4.1	18
40	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
41	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
42	Deciphering Pathways for Carotenogenesis in Haloarchaea. Molecules, 2020, 25, 1197.	3.8	16
43	Ferredoxin-dependent glutamate synthase: involvement in ammonium assimilation in Haloferax mediterranei. Extremophiles, 2014, 18, 147-159.	2.3	15
44	Haloferax mediterranei Cells as C50 Carotenoid Factories. Marine Drugs, 2021, 19, 100.	4.6	14
45	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
46	New Uses of Haloarchaeal Species in Bioremediation Processes. , 2015, , .		12
47	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
48	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
49	Nitrate reduction in Haloferax alexandrinus: the case of assimilatory nitrate reductase. Extremophiles, 2017, 21, 551-561.	2.3	11
50	Biocompounds from Haloarchaea and Their Uses in Biotechnology. , 0, , .		11
51	Insights on Cadmium Removal by Bioremediation: The Case of Haloarchaea. Microbiology Research, 2021, 12, 354-375.	1.9	11
52	Halophilic Carotenoids and Breast Cancer: From Salt Marshes to Biomedicine. Marine Drugs, 2021, 19, 594.	4.6	10
53	A haloarchaeal ferredoxin electron donor that plays an essential role in nitrate assimilation. Biochemical Society Transactions, 2011, 39, 1844-1848.	3.4	8
54	Exploring the Molecular Machinery of Denitrification in Haloferax mediterranei Through Proteomics. Frontiers in Microbiology, 2020, 11, 605859.	3.5	8

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55	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
56	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
57	Controversy over the Use of â€œShade Coversâ€•to Avoid Water Evaporation in Water Reservoirs. Sustainability, 2021, 13, 11234.	3.2	7
58	Introductory Chapter: A Brief Overview on Fermentation and Challenges for the Next Future. , 2020, , .		6
59	Distribution of Denitrification among Haloarchaea: A Comprehensive Study. Microorganisms, 2021, 9, 1669.	3.6	6
60	Recent Trend on Bioremediation of Polluted Salty Soils and Waters Using Haloarchaea. , 2018, , .		5
61	Haloarchaea: A Promising Biosource for Carotenoid Production. Advances in Experimental Medicine and Biology, 2021, 1261, 165-174.	1.6	5
62	Ubiquitousness of Haloferax and Carotenoid Producing Genes in Arabian Sea Coastal Biosystems of India. Marine Drugs, 2021, 19, 442.	4.6	5
63	Extremophile Enzymes and Biotechnology. , 2018, , 227-248.		5
64	Assessment of Haloferax mediterranei Genome in Search of Copper-Molecular Machinery With Potential Applications for Bioremediation. Frontiers in Microbiology, 0, 13, .	3.5	5
65	Enzymes from Halophilic Archaea: Open Questions. , 2011, , 359-371.		4
66	Organisms of the Nitrogen Cycle Under Extreme Conditions: Low Temperature, Salinity, pH Value and Water Stress. , 2007, , 369-379.		2
67	In Silico Analysis of the Enzymes Involved in Haloarchaeal Denitrification. Biomolecules, 2021, 11, 1043.	4.0	2
68	Enzymes from Halophilic Archaea: Open Questions. , 2011, , 359-371.		2
69	Denitrification in Extreme Environments. , 2018, , 209-226.		2
70	Personalized Diet in Obesity: A Quasi-Experimental Study on Fat Mass and Fat-Free Mass Changes. Healthcare (Switzerland), 2021, 9, 1101.	2.0	1
71	Recent Advances in the Nitrogen Metabolism in Haloarchaea and Its Biotechnological Applications. Grand Challenges in Biology and Biotechnology, 2016, , 273-301.	2.4	1
72	Nitrate Assimilation in Halophilic Archaea. , 2004, , 193-203.		1

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73	Respiratory nitrate reductase complex from Haloferax mediterranei: applications on salted wastewater treatments and biosensor engineering. New Biotechnology, 2009, 25, S63.	4.4	0
74	Haloarchaea May Contribute to the Colour of Avian Plumage in Marine Ecosystems. , 0, , .		0
75	EXCHANGE PROGRAMMES AT THE FACULTY OF SCIENCE. UNIVERSITY OF ALICANTE. , 2016, , .		0
76	Industrial applications of enzymes from haloarchaea. , 2022, , 289-320.		0