

Rosa MarÃ-a MartÃ-nez-Espinosa

List of Publications by Year in descending order

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76
papers

1,948
citations

236612

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40
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79
all docs

79
docs citations

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times ranked

1810
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Carotenoids from Haloarchaea and Their Potential in Biotechnology. <i>Marine Drugs</i> , 2015, 13, 5508-5532. | 2.2 | 129 |
| 2 | Look on the positive side! The orientation, identification and bioenergetics of Archaeal membrane-bound nitrate reductases. <i>FEMS Microbiology Letters</i> , 2007, 276, 129-139. | 0.7 | 107 |
| 3 | Exploring the Valuable Carotenoids for the Large-Scale Production by Marine Microorganisms. <i>Marine Drugs</i> , 2018, 16, 203. | 2.2 | 105 |
| 4 | Nitrogen metabolism in haloarchaea. <i>Saline Systems</i> , 2008, 4, 9. | 2.0 | 86 |
| 5 | Enzymology and ecology of the nitrogen cycle. <i>Biochemical Society Transactions</i> , 2011, 39, 175-178. | 1.6 | 73 |
| 6 | Haloarchaeal Carotenoids: Healthy Novel Compounds from Extreme Environments. <i>Marine Drugs</i> , 2019, 17, 524. | 2.2 | 72 |
| 7 | Assimilatory nitrate reductase from the haloarchaeon <i>Haloferax mediterranei</i> : purification and characterisation. <i>FEMS Microbiology Letters</i> , 2001, 204, 381-385. | 0.7 | 67 |
| 8 | Effects of the Usage of l-Cysteine (l-Cys) on Human Health. <i>Molecules</i> , 2018, 23, 575. | 1.7 | 67 |
| 9 | New guidelines for testing Deep eutectic solvents toxicity and their effects on the environment and living beings. <i>Science of the Total Environment</i> , 2020, 704, 135382. | 3.9 | 66 |
| 10 | Respiratory nitrate reductase from haloarchaeon <i>Haloferax mediterranei</i> : biochemical and genetic analysis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2004, 1674, 50-59. | 1.1 | 65 |
| 11 | Multicomponent synthesis of sulfonamides from triarylbiomethanes, nitro compounds and sodium metabisulfite in deep eutectic solvents. <i>Green Chemistry</i> , 2019, 21, 4127-4132. | 4.6 | 57 |
| 12 | Assimilatory nitrate reductase from the haloarchaeon <i>Haloferax mediterranei</i> : purification and characterisation. <i>FEMS Microbiology Letters</i> , 2001, 204, 381-385. | 0.7 | 51 |
| 13 | Purification and characterisation of a possible assimilatory nitrite reductase from the halophile archaeon <i>Haloferax mediterranei</i> . <i>FEMS Microbiology Letters</i> , 2001, 196, 113-118. | 0.7 | 48 |
| 14 | Characterisation of chlorate reduction in the haloarchaeon <i>Haloferax mediterranei</i> . <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2015, 1850, 587-594. | 1.1 | 44 |
| 15 | Biodiversity of Archaea and floral of two inland saltern ecosystems in the Alto Vinalopó Valley, Spain. <i>Saline Systems</i> , 2010, 6, 10. | 2.0 | 35 |
| 16 | Anaerobic Metabolism in <i>Haloferax</i> Genus. <i>Advances in Microbial Physiology</i> , 2016, 68, 41-85. | 1.0 | 35 |
| 17 | Analysis of acidic surface of <i>Haloferax mediterranei</i> glucose dehydrogenase by site-directed mutagenesis. <i>FEBS Letters</i> , 2007, 581, 837-842. | 1.3 | 34 |
| 18 | Cyclodextrin glycosyltransferase: a key enzyme in the assimilation of starch by the halophilic archaeon <i>Haloferax mediterranei</i> . <i>Extremophiles</i> , 2012, 16, 147-159. | 0.9 | 34 |

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|----|---|-----|-----------|
| 19 | Optimization of Growth and Carotenoid Production by <i>Haloferax mediterranei</i> Using Response Surface Methodology. <i>Marine Drugs</i> , 2018, 16, 372. | 2.2 | 33 |
| 20 | Microorganisms and Their Metabolic Capabilities in the Context of the Biogeochemical Nitrogen Cycle at Extreme Environments. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4228. | 1.8 | 31 |
| 21 | Identification and transcriptional analysis of nitrate assimilation genes in the halophilic archaeon <i>Haloferax mediterranei</i> . <i>Gene</i> , 2005, 361, 80-88. | 1.0 | 29 |
| 22 | Role of the denitrifying Haloarchaea in the treatment of nitrite-brines. <i>International Microbiology</i> , 2012, 15, 111-9. | 1.1 | 29 |
| 23 | Carotenoids as a Protection Mechanism against Oxidative Stress in <i>Haloferax mediterranei</i> . <i>Antioxidants</i> , 2020, 9, 1060. | 2.2 | 28 |
| 24 | Catalase as a Molecular Target for Male Infertility Diagnosis and Monitoring: An Overview. <i>Antioxidants</i> , 2020, 9, 78. | 2.2 | 28 |
| 25 | Respiratory nitrate and nitrite pathway in the denitrifier haloarchaeon <i>Haloferax mediterranei</i> . <i>Biochemical Society Transactions</i> , 2006, 34, 115-117. | 1.6 | 27 |
| 26 | DMSO Reductase Family: Phylogenetics and Applications of Extremophiles. <i>International Journal of Molecular Sciences</i> , 2019, 20, 3349. | 1.8 | 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. <i>Nutrients</i> , 2018, 10, 878. | 1.7 | 25 |
| 28 | Haloarchaea as Cell Factories to Produce Bioplastics. <i>Marine Drugs</i> , 2021, 19, 159. | 2.2 | 24 |
| 29 | The effect of ammonium on assimilatory nitrate reduction in the haloarchaeon <i>Haloferax mediterranei</i> . <i>Extremophiles</i> , 2007, 11, 759-767. | 0.9 | 23 |
| 30 | Practical Guidance for Interventions in Adults with Metabolic Syndrome: Diet and Exercise vs. Changes in Body Composition. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 3481. | 1.2 | 23 |
| 31 | An octameric prokaryotic glutamine synthetase from the haloarchaeon <i>Haloferax mediterranei</i> . <i>FEMS Microbiology Letters</i> , 2006, 264, 110-116. | 0.7 | 22 |
| 32 | Nitrate and nitrite removal from salted water by <i>Haloferax mediterranei</i> . <i>Biocatalysis and Biotransformation</i> , 2007, 25, 295-300. | 1.1 | 22 |
| 33 | NO ₃ ⁻ /NO ₂ ⁻ assimilation in halophilic archaea: physiological analysis, <i>nasA</i> and <i>nasD</i> expressions. <i>Extremophiles</i> , 2009, 13, 785-792. | 0.9 | 20 |
| 34 | SufS protein from <i>Haloferax volcanii</i> involved in Fe-S cluster assembly in haloarchaea. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2010, 1804, 1476-1482. | 1.1 | 19 |
| 35 | Cu-NirK from <i>Haloferax mediterranei</i> as an example of metalloprotein maturation and exportation via Tat system. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2013, 1834, 1003-1009. | 1.1 | 19 |
| 36 | Transcriptional profiles of <i>Haloferax mediterranei</i> based on nitrogen availability. <i>Journal of Biotechnology</i> , 2015, 193, 100-107. | 1.9 | 19 |

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| 37 | Analysis of multiple haloarchaeal genomes suggests that the quinone-dependent respiratory nitric oxide reductase is an important source of nitrous oxide in hypersaline environments. <i>Environmental Microbiology Reports</i> , 2017, 9, 788-796. | 1.0 | 19 |
| 38 | Denitrifying haloarchaea: sources and sinks of nitrogenous gases. <i>FEMS Microbiology Letters</i> , 2018, 365, . | 0.7 | 19 |
| 39 | Heterologous and Homologous Expression of Proteins from Haloarchaea: Denitrification as Case of Study. <i>International Journal of Molecular Sciences</i> , 2020, 21, 82. | 1.8 | 18 |
| 40 | Denitrifying haloarchaea within the genus <i>Haloferax</i> display divergent respiratory phenotypes, with implications for their release of nitrogenous gases. <i>Environmental Microbiology</i> , 2019, 21, 427-436. | 1.8 | 17 |
| 41 | Evidences from Clinical Trials in Down Syndrome: Diet, Exercise and Body Composition. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 4294. | 1.2 | 17 |
| 42 | Deciphering Pathways for Carotenogenesis in Haloarchaea. <i>Molecules</i> , 2020, 25, 1197. | 1.7 | 16 |
| 43 | Ferredoxin-dependent glutamate synthase: involvement in ammonium assimilation in <i>Haloferax mediterranei</i> . <i>Extremophiles</i> , 2014, 18, 147-159. | 0.9 | 15 |
| 44 | <i>Haloferax mediterranei</i> Cells as C50 Carotenoid Factories. <i>Marine Drugs</i> , 2021, 19, 100. | 2.2 | 14 |
| 45 | Analysis of Polyhydroxyalkanoates Granules in <i>Haloferax mediterranei</i> by Double-Fluorescence Staining with Nile Red and SYBR Green by Confocal Fluorescence Microscopy. <i>Polymers</i> , 2021, 13, 1582. | 2.0 | 13 |
| 46 | New Uses of Haloarchaeal Species in Bioremediation Processes. , 2015, , . | | 12 |
| 47 | <i>Haloferax mediterranei</i> , an Archaeal Model for Denitrification in Saline Systems, Characterized Through Integrated Physiological and Transcriptional Analyses. <i>Frontiers in Microbiology</i> , 2020, 11, 768. | 1.5 | 12 |
| 48 | NMR studies of a ferredoxin from <i>Haloferax mediterranei</i> and its physiological role in nitrate assimilatory pathway. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2003, 1623, 47-51. | 1.1 | 11 |
| 49 | Nitrate reduction in <i>Haloferax alexandrinus</i> : the case of assimilatory nitrate reductase. <i>Extremophiles</i> , 2017, 21, 551-561. | 0.9 | 11 |
| 50 | Biocompounds from Haloarchaea and Their Uses in Biotechnology. , 0, , . | | 11 |
| 51 | Insights on Cadmium Removal by Bioremediation: The Case of Haloarchaea. <i>Microbiology Research</i> , 2021, 12, 354-375. | 0.8 | 11 |
| 52 | Halophilic Carotenoids and Breast Cancer: From Salt Marshes to Biomedicine. <i>Marine Drugs</i> , 2021, 19, 594. | 2.2 | 10 |
| 53 | A haloarchaeal ferredoxin electron donor that plays an essential role in nitrate assimilation. <i>Biochemical Society Transactions</i> , 2011, 39, 1844-1848. | 1.6 | 8 |
| 54 | Exploring the Molecular Machinery of Denitrification in <i>Haloferax mediterranei</i> Through Proteomics. <i>Frontiers in Microbiology</i> , 2020, 11, 605859. | 1.5 | 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. | 1.4 | 8 |
| 56 | Spectropotentiometric properties and salt-dependent thermotolerance of a [2Fe-Fe-S] ₂ ferredoxin-involved nitrate assimilation in <i>Haloferax mediterranei</i> . FEMS Microbiology Letters, 2007, 277, 50-55. | 0.7 | 7 |
| 57 | Controversy over the Use of “Shade Covers” to Avoid Water Evaporation in Water Reservoirs. Sustainability, 2021, 13, 11234. | 1.6 | 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. | 1.6 | 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. | 0.8 | 5 |
| 62 | Ubiquitousness of <i>Haloferax</i> and Carotenoid Producing Genes in Arabian Sea Coastal Biosystems of India. Marine Drugs, 2021, 19, 442. | 2.2 | 5 |
| 63 | Extremophile Enzymes and Biotechnology. , 2018, , 227-248. | | 5 |
| 64 | Assessment of <i>Haloferax mediterranei</i> Genome in Search of Copper-Molecular Machinery With Potential Applications for Bioremediation. Frontiers in Microbiology, 0, 13, . | 1.5 | 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. | 1.8 | 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. | 1.0 | 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 <i>Haloferax mediterranei</i> : applications on salted wastewater treatments and biosensor engineering. <i>New Biotechnology</i> , 2009, 25, S63. | 2.4 | 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 |