JoaquÃ-n J Nieto

List of Publications by Year
in descending order

61	3,864	201674	144013
papers	citations	27 h-index	57 g-index

61	61	61	3131
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Biology of Moderately Halophilic Aerobic Bacteria. Microbiology and Molecular Biology Reviews, 1998, 62, 504-544.	6.6	1,121
2	Ectoines in cell stress protection: Uses and biotechnological production. Biotechnology Advances, 2010, 28, 782-801.	11.7	296
3	Biotechnological applications and potentialities of halophilic microorganisms. World Journal of Microbiology and Biotechnology, 1995, 11, 85-94.	3.6	220
4	The ectD Gene, Which Is Involved in the Synthesis of the Compatible Solute Hydroxyectoine, Is Essential for Thermoprotection of the Halophilic Bacterium Chromohalobacter salexigens. Journal of Bacteriology, 2006, 188, 3774-3784.	2.2	133
5	Production and biochemical characterization of an ÃŽÂ±-amylase from the moderate halophileHalomonas meridiana. FEMS Microbiology Letters, 2000, 183, 67-71.	1.8	130
6	Phylogenetic Inferences and Taxonomic Consequences of 16S Ribosomal DNA Sequence Comparison of Chromohalobacter marismortui, Volcaniella eurihalina, and Deleya salina and Reclassification of V. eurihalina as Halomonas eurihalina comb. nov.. International Journal of Systematic Bacteriology, 1995, 45, 712-716.	2.8	120
7	Complex regulation of the synthesis of the compatible solute ectoine in the halophilic bacterium Chromohalobacter salexigens DSM 3043T. Microbiology (United Kingdom), 2004, 150, 3051-3063.	1.8	112
8	Role of trehalose in heat and desiccation tolerance in the soil bacterium Rhizobium etli. BMC Microbiology, 2012, 12, 207.	3.3	107
9	Isolation and Characterization of Salt-sensitive Mutants of the Moderate Halophile Halomonas elongata and Cloning of the Ectoine Synthesis Genes. Journal of Biological Chemistry, 1997, 272, 25794-25801.	3.4	96
10	Osmoprotectants in Halomonas elongata: high-affinity betaine transport system and choline-betaine pathway. Journal of Bacteriology, 1996, 178, 7221-7226.	2.2	91
11	Characterization of the Genes for the Biosynthesis of the Compatible Solute Ectoine in the Moderately Halophilic Bacterium Halomonas elongata DSM 3043. Systematic and Applied Microbiology, 1998, 21, 487-497.	2.8	91
12	Analysis of 16S rRNA Gene Sequences of Vibrio costicola Strains: Description of Salinivibrio costicola gen. nov., comb. nov.. International Journal of Systematic Bacteriology, 1996, 46, 817-821.	2.8	90
13	Unravelling the adaptation responses to osmotic and temperature stress in Chromohalobacter salexigens, a bacterium with broad salinity tolerance. Saline Systems, 2008, 4, 14.	2.0	84
14	Susceptibility of Halobacteria to Heavy Metals. Applied and Environmental Microbiology, 1987, 53, 1199-1202.	3.1	75
15	Ectoines as compatible solutes and carbon and energy sources for the halophilic bacterium Chromohalobacter salexigens. Journal of Applied Microbiology, 2006, 100, 98-107.	3.1	66
16	Role of Trehalose in Salinity and Temperature Tolerance in the Model Halophilic Bacterium Chromohalobacter salexigens. PLoS ONE, 2012, 7, e33587.	2.5	59
17	Isoprenyl-thiourea and urea derivatives as new farnesyl diphosphate analogues: Synthesis and inÂvitro antimicrobial and cytotoxic activities. European Journal of Medicinal Chemistry, 2012, 58, 591-612.	5.5	53
18	Role of Central Metabolism in the Osmoadaptation of the Halophilic Bacterium Chromohalobacter salexigens. Journal of Biological Chemistry, 2013, 288, 17769-17781.	3.4	53

#	Article	IF	Citations
19	Interplay between Iron Homeostasis and the Osmotic Stress Response in the Halophilic Bacterium Chromohalobacter salexigens. Applied and Environmental Microbiology, 2010, 76, 3575-3589.	3.1	49
20	Cloning and expression of alphaalpha-amylase from the hyperthermophilic archaeon Pyrococcus woesei in the moderately halophilic bacterium Halomonas elongata. Journal of Applied Microbiology, 2000, 88, 495-503.	3.1	48
21	Isolation of cryptic plasmids from moderately halophilic eubacteria of the genus Halomonas. Characterization of a small plasmid from H. elongata and its use for shuttle vector construction. Molecular Genetics and Genomics, 1995, 246, 411-418.	2.4	46
22	Biosynthesis of compatible solutes in rhizobial strains isolated from Phaseolus vulgaris nodules in Tunisian fields. BMC Microbiology, 2010, 10, 192.	3.3	44
23	Occurrence of megaplasmids in halobacteria. Journal of Applied Bacteriology, 1986, 61, 67-71.	1.1	42
24	Host Range, Stability and Compatibility of Broad Host-Range-Plasmids and a Shuttle Vector in Moderately Halophilic Bacteria. Evidence of Intrageneric and Intergeneric Conjugation in Moderate Halophiles. Systematic and Applied Microbiology, 1997, 20, 173-181.	2.8	36
25	Complete genome sequence of the halophilic and highly halotolerant Chromohalobacter salexigens type strain (1H11T). Standards in Genomic Sciences, 2011, 5, 379-388.	1.5	35
26	Development of a gene reporter system in moderately halophilic bacteria by employing the ice nucleation gene of Pseudomonas syringae. Applied and Environmental Microbiology, 1995, 61, 3821-3825.	3.1	32
27	Temperature- and Salinity-Decoupled Overproduction of Hydroxyectoine by Chromohalobacter salexigens. Applied and Environmental Microbiology, 2013, 79, 1018-1023.	3.1	29
28	Survey of Antimicrobial Susceptibility of Moderately Halophilic Eubacteria and Extremely Halophilic Aerobic Archaeobacteria: Utilization of Antimicrobial Resistance as a Genetic Marker. Systematic and Applied Microbiology, 1993, 16, 352-360.	2.8	28
29	Characterization of the basic replicon of pCM1, a narrow-host-range plasmid from the moderate halophile Chromohalobacter marismortui. Journal of Bacteriology, 1995, 177, 3443-3450.	2.2	28
30	Contribution of chemical changes in membrane lipids to the osmoadaptation of the halophilic bacterium Chromohalobacter salexigens. Systematic and Applied Microbiology, 2005, 28, 571-581.	2.8	28
31	Phenotypic and genotypic characterization of rhizobia associated with Acacia saligna (Labill.) Wendl. in nurseries from Algeria. Systematic and Applied Microbiology, 2010, 33, 44-51.	2.8	27
32	Understanding the interplay of carbon and nitrogen supply for ectoines production and metabolic overflow in high density cultures of Chromohalobacter salexigens. Microbial Cell Factories, 2017, 16, 23.	4.0	27
33	Involvement of EupR, a response regulator of the NarL/FixJ family, in the control of the uptake of the compatible solutes ectoines by the halophilic bacterium Chromohalobacter salexigens. BMC Microbiology, 2010, 10, 256.	3.3	26
34	Insights into metabolic osmoadaptation of the ectoines-producer bacterium Chromohalobacter salexigens through a high-quality genome scale metabolic model. Microbial Cell Factories, 2018, 17, 2.	4.0	26
35	Construction of Novel Shuttle Vectors for Use between Moderately Halophilic Bacteria andEscherichia coli. Plasmid, 1995, 34, 157-164.	1.4	24
36	Influence of salt concentration on the susceptibility of moderately halophilic bacteria to antimicrobials and its potential use for genetic transfer studies. Current Microbiology, 1995, 31, 365-371.	2.2	22

#	Article	IF	Citations
37	An Extended Suite of Genetic Tools for Use in Bacteria of the Halomonadaceae: An Overview. Methods in Molecular Biology, 2012, 824, 167-201.	0.9	22
38	Quantitative RNA-seq Analysis Unveils Osmotic and Thermal Adaptation Mechanisms Relevant for Ectoine Production in Chromohalobacter salexigens. Frontiers in Microbiology, 2018, 9, 1845.	3.5	21
39	Osmoprotection of Salmonella enterica serovar Typhimurium by Nî³-acetyldiaminobutyrate, the precursor of the compatible solute ectoine. Systematic and Applied Microbiology, 2006, 29, 626-633.	2.8	18
40	Release of cell-free ice nuclei from Halomonas elongata expressing the ice nucleation gene inaZ of Pseudomonas syringae. Journal of Applied Microbiology, 2000, 89, 785-792.	3.1	17
41	Genetic Organization of the Mobilization Region of the Plasm id pHE1 from Halomonas elongata. Systematic and Applied Microbiology, 1999, 22, 520-529.	2.8	15
42	Light as an Energy Source in Continuous Cultures of Bacteriorhodopsin-Containing Halobacteria. Applied and Environmental Microbiology, 1983, 45, 868-871.	3.1	15
43	The susceptibility of the moderate halophile Vibrio costicola to heavy metals. Journal of Applied Bacteriology, 1987, 63, 63-66.	1.1	14
44	Toxicity of Heavy Metals to Archaebacterial Halococci. Systematic and Applied Microbiology, 1989, 11, 116-120.	2.8	13
45	Analysis of the genome of the gram-negative moderate halophiles Halomonas and Chromohalobacter by using pulsed-field gel electrophoresis. Extremophiles, 1998, 2, 435-438.	2.3	13
46	Analysis of the replication region of the cryptic plasmid pHE1 from the moderate halophileHalomonas elongata. Molecular Genetics and Genomics, 1999, 261, 851-861.	2.4	13
47	Genetic Tools for the Manipulation of Moderately Halophilic Bacteria of the Family <I>Halomonadaceae</I>. , 2004, 267, 183-208.		12
48	Contribution of <scp>RpoS</scp> to metabolic efficiency and ectoines synthesis during the osmoâ€•and heatâ€stress response in the halophilic bacterium <scp>C</scp>hromohalobacter salexigens. Environmental Microbiology Reports, 2015, 7, 301-311.	2.4	12
49	Salt-Sensitive and Auxotrophic Mutants of Halomonas elongata and H. meridiana by Use of Hydroxylamine Mutagenesis. Current Microbiology, 1997, 34, 85-90.	2.2	11
50	Identification of a promoter region on the Halomonas elongata cryptic plasmid pHE1 employing the inaZ reporter gene of Pseudomonas syringae. FEMS Microbiology Letters, 2006, 154, 45-51.	1.8	11
51	Ethyl methanesulfonate mutagenesis in extremely halophilic archaebacteria: Isolation of auxotrophic mutants ofHaloferax mediterranei andHaloferax gibbonsii. Current Microbiology, 1992, 24, 41-47.	2.2	10
52	Fructose metabolism in Chromohalobacter salexigens: interplay between the Embdenâ€“Meyerhofâ€“Parnas and Entnerâ€“Doudoroff pathways. Microbial Cell Factories, 2019, 18, 134.	4.0	10
53	Lethality and mutagenicity inHalobacterium mediterranei caused by N-methyl-Nâ€²-nitro-N-nitrosoguanidine. Current Microbiology, 1984, 11, 165-169.	2.2	9
54	Efficient hydroxylamine mutagenesis ofHaloferax mediterranei and other extremely halophilic archaebacteria. Current Microbiology, 1990, 21, 83-89.	2.2	8

#	ARTICLE	IF	CITATIONS
55	Gene Transfer and Expression of Recombinant Proteins in Moderately Halophilic Bacteria. , 2004, 267, 209-224.		7
56	New insights into hydroxyectoine synthesis and its transcriptional regulation in the broadâ€salt growing halophilic bacteriumChromohalobacter salexigens. Microbial Biotechnology, 2021, 14, 1472-1493.	4.2	6
57	DNA-rRNA hybridization studies onHalococcus saccharolyticusand other halobacteria. FEMS Microbiology Letters, 1993, 111, 69-72.	1.8	5
58	Physical map of a 257 kilobase-pairs region from the genome of the archaebacteriumHalococcus saccharolyticus. Current Microbiology, 1991, 23, 299-302.	2.2	4
59	Genetics of Osmoadaptation by Accumulation of Compatible Solutes in the Moderate Halophile Chromohalobacter salexigens: Its Potential in Agriculture Under Osmotic Stress Conditions. , 2004, , 135-153.		2
60	Identification of a promoter region on the Halomonas elongata cryptic plasmid pHE1 employing the inaZ reporter gene of Pseudomonas syringae. FEMS Microbiology Letters, 1997, 154, 45-51.	1.8	2
61	Synchronous diagnosis of multiple tumours in a postmenopausal woman. Archives of Gynecology and Obstetrics, 2009, 280, 627-630.	1.7	0