

Socorro Mesa

List of Publications by Year in descending order

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37
papers

1,517
citations

257450

24
h-index

361022

35
g-index

37
all docs

37
docs citations

37
times ranked

1078
citing authors

#	ARTICLE	IF	CITATIONS
1	Bacterial Adaptation of Respiration from Oxic to Microoxic and Anoxic Conditions: Redox Control. Antioxidants and Redox Signaling, 2012, 16, 819-852.	5.4	170
2	Comprehensive Assessment of the Regulons Controlled by the FixJ-FixK ₂ -FixK ₁ Cascade in <i>Bradyrhizobium japonicum</i> . Journal of Bacteriology, 2008, 190, 6568-6579.	2.2	131
3	<i>Bradyrhizobium japonicum</i> NnrR, a Denitrification Regulator, Expands the FixJ-FixK ₂ Regulatory Cascade. Journal of Bacteriology, 2003, 185, 3978-3982.	2.2	119
4	Molecular characterization of nosRZDFYLX genes coding for denitrifying nitrous oxide reductase of <i>Bradyrhizobium japonicum</i> . Antonie Van Leeuwenhoek, 2004, 85, 229-235.	1.7	77
5	Expression of nir, nor and nos denitrification genes from <i>Bradyrhizobium japonicum</i> in soybean root nodules. Physiologia Plantarum, 2004, 120, 205-211.	5.2	62
6	Characterization of the nirK gene encoding the respiratory, Cu-containing nitrite reductase of <i>Bradyrhizobium japonicum</i> . Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2001, 1521, 130-134.	2.4	59
7	Characterization of the norCBQD genes, encoding nitric oxide reductase, in the nitrogen fixing bacterium <i>Bradyrhizobium japonicum</i> b bThe GenBank accession number for the <i>B. japonicum</i> norCBQD genes reported in this paper is AJ132911.. Microbiology (United Kingdom), 2002, 148, 3553-3560.	1.8	59
8	Regulation of Polyhydroxybutyrate Synthesis in the Soil Bacterium <i>Bradyrhizobium diazoefficiens</i> . Applied and Environmental Microbiology, 2016, 82, 4299-4308.	3.1	57
9	Transcription Activation In Vitro by the <i>Bradyrhizobium japonicum</i> Regulatory Protein FixK ₂ . Journal of Bacteriology, 2005, 187, 3329-3338.	2.2	56
10	Posttranslational control of transcription factor FixK ₂ , a key regulator for the <i>Bradyrhizobium japonicum</i> "soybean symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 21860-21865.	7.1	54
11	Metabolomic Profiling of <i>Bradyrhizobium diazoefficiens</i> -Induced Root Nodules Reveals Both Host Plant-Specific and Developmental Signatures. International Journal of Molecular Sciences, 2016, 17, 815.	4.1	52
12	The Global Response Regulator RegR Controls Expression of Denitrification Genes in <i>Bradyrhizobium japonicum</i> . PLoS ONE, 2014, 9, e99011.	2.5	47
13	Disparate response to microoxia and nitrogen oxides of the <i>Bradyrhizobium japonicum</i> napEDABC, nirK and norCBQD denitrification genes. Nitric Oxide - Biology and Chemistry, 2017, 68, 137-149.	2.7	46
14	Reactive Oxygen Species-Inducible ECF Ïf Factors of <i>Bradyrhizobium japonicum</i> . PLoS ONE, 2012, 7, e43421.	2.5	41
15	FixK ₂ Is the Main Transcriptional Activator of <i>Bradyrhizobium diazoefficiens</i> nosRZDYFLX Genes in Response to Low Oxygen. Frontiers in Microbiology, 2017, 8, 1621.	3.5	37
16	A multitude of CRP/FNR-like transcription proteins in <i>Bradyrhizobium japonicum</i> . Biochemical Society Transactions, 2006, 34, 156-159.	3.4	36
17	Nitrate and flooding induce N ₂ O emissions from soybean nodules. Symbiosis, 2015, 67, 125-133.	2.3	36
18	NifA is required for maximal expression of denitrification genes in <i>Bradyrhizobium japonicum</i> . Environmental Microbiology, 2010, 12, 393-400.	3.8	33

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19	The nitric oxide response in plant-associated endosymbiotic bacteria. <i>Biochemical Society Transactions</i> , 2011, 39, 1880-1885.	3.4	31
20	The Structure of Bradyrhizobium japonicum Transcription Factor FixK2 Unveils Sites of DNA Binding and Oxidation. <i>Journal of Biological Chemistry</i> , 2013, 288, 14238-14246.	3.4	31
21	An Integrated Systems Approach Unveils New Aspects of Microoxia-Mediated Regulation in Bradyrhizobium diazoefficiens. <i>Frontiers in Microbiology</i> , 2019, 10, 924.	3.5	31
22	Global consequences of phosphatidylcholine reduction in Bradyrhizobium japonicum. <i>Molecular Genetics and Genomics</i> , 2008, 280, 59-72.	2.1	30
23	Autoregulation of fixK 2 gene expression in Bradyrhizobium japonicum. <i>Molecular Genetics and Genomics</i> , 2010, 284, 25-32.	2.1	30
24	The nir , nor , and nos denitrification genes are dispersed over the Bradyrhizobium japonicum chromosome. <i>Archives of Microbiology</i> , 2001, 176, 136-142.	2.2	25
25	FixK ₂ , a key regulator in Bradyrhizobium japonicum, is a substrate for the protease ClpAP in vitro. <i>FEBS Letters</i> , 2013, 587, 88-93.	2.8	22
26	Molecular Determinants of Negative Regulation of the Bradyrhizobium diazoefficiens Transcription Factor FixK2. , 2016, , 57-72.		21
27	Emerging complexity in the denitrification regulatory network of Bradyrhizobium japonicum. <i>Biochemical Society Transactions</i> , 2011, 39, 284-288.	3.4	20
28	Denitrification ability of rhizobial strains isolated from Lotus sp.. <i>Antonie Van Leeuwenhoek</i> , 2006, 89, 479-484.	1.7	19
29	Ecology of Denitrification in Soils and Plant-Associated Bacteria. , 2013, , 165-182.		16
30	Expanding the Regulon of the Bradyrhizobium diazoefficiens NnrR Transcription Factor: New Insights Into the Denitrification Pathway. <i>Frontiers in Microbiology</i> , 2019, 10, 1926.	3.5	16
31	Bacterial nitric oxide metabolism: Recent insights in rhizobia. <i>Advances in Microbial Physiology</i> , 2021, 78, 259-315.	2.4	13
32	Copper modulates nitrous oxide emissions from soybean root nodules. <i>Environmental and Experimental Botany</i> , 2020, 180, 104262.	4.2	10
33	Dissection of FixK ₂ proteinâ€™DNA interaction unveils new insights into Bradyrhizobium diazoefficiens lifestyles control. <i>Environmental Microbiology</i> , 2021, 23, 6194-6209.	3.8	9
34	Effect of Copper on Expression of Functional Genes and Proteins Associated with Bradyrhizobium diazoefficiens Denitrification. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3386.	4.1	6
35	Oxidative Stress Produced by Paraquat Reduces Nitrogen Fixation in Soybean-Bradyrhizobium diazoefficiens Symbiosis by Decreasing Nodule Functionality. <i>Nitrogen</i> , 2021, 2, 30-40.	1.3	5
36	Regulation of the Emissions of the Greenhouse Gas Nitrous Oxide by the Soybean Endosymbiont Bradyrhizobium diazoefficiens. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1486.	4.1	5

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37	Fine-Tuning Modulation of Oxidation-Mediated Posttranslational Control of Bradyrhizobium diazoefficiens FixK2 Transcription Factor. International Journal of Molecular Sciences, 2022, 23, 5117.	4.1	5