

# 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	Regulation of the Emissions of the Greenhouse Gas Nitrous Oxide by the Soybean Endosymbiont <i>Bradyrhizobium diazoefficiens</i> . <i>International Journal of Molecular Sciences</i> , 2022, 23, 1486.	4.1	5
2	Effect of Copper on Expression of Functional Genes and Proteins Associated with <i>Bradyrhizobium diazoefficiens</i> Denitrification. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3386.	4.1	6
3	Fine-Tuning Modulation of Oxidation-Mediated Posttranslational Control of <i>Bradyrhizobium diazoefficiens</i> FixK2 Transcription Factor. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5117.	4.1	5
4	Bacterial nitric oxide metabolism: Recent insights in rhizobia. <i>Advances in Microbial Physiology</i> , 2021, 78, 259-315.	2.4	13
5	Dissection of <i>FixK2</i> proteinâ€™DNA interaction unveils new insights into <i>Bradyrhizobium diazoefficiens</i> lifestyles control. <i>Environmental Microbiology</i> , 2021, 23, 6194-6209.	3.8	9
6	Oxidative Stress Produced by Paraquat Reduces Nitrogen Fixation in Soybean- <i>Bradyrhizobium diazoefficiens</i> Symbiosis by Decreasing Nodule Functionality. <i>Nitrogen</i> , 2021, 2, 30-40.	1.3	5
7	Copper modulates nitrous oxide emissions from soybean root nodules. <i>Environmental and Experimental Botany</i> , 2020, 180, 104262.	4.2	10
8	Expanding the Regulon of the <i>Bradyrhizobium diazoefficiens</i> NnrR Transcription Factor: New Insights Into the Denitrification Pathway. <i>Frontiers in Microbiology</i> , 2019, 10, 1926.	3.5	16
9	An Integrated Systems Approach Unveils New Aspects of Microoxia-Mediated Regulation in <i>Bradyrhizobium diazoefficiens</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 924.	3.5	31
10	Disparate response to microoxia and nitrogen oxides of the <i>Bradyrhizobium japonicum</i> napEDABC, nirK and norCBQD denitrification genes. <i>Nitric Oxide - Biology and Chemistry</i> , 2017, 68, 137-149.	2.7	46
11	<i>FixK2</i> Is the Main Transcriptional Activator of <i>Bradyrhizobium diazoefficiens</i> nosRZDYFLX Genes in Response to Low Oxygen. <i>Frontiers in Microbiology</i> , 2017, 8, 1621.	3.5	37
12	Metabolomic Profiling of <i>Bradyrhizobium diazoefficiens</i> -Induced Root Nodules Reveals Both Host Plant-Specific and Developmental Signatures. <i>International Journal of Molecular Sciences</i> , 2016, 17, 815.	4.1	52
13	Molecular Determinants of Negative Regulation of the <i>Bradyrhizobium diazoefficiens</i> Transcription Factor <i>FixK2</i> . , 2016, , 57-72.		21
14	Regulation of Polyhydroxybutyrate Synthesis in the Soil Bacterium <i>Bradyrhizobium diazoefficiens</i> . <i>Applied and Environmental Microbiology</i> , 2016, 82, 4299-4308.	3.1	57
15	Nitrate and flooding induce N <sub>2</sub> O emissions from soybean nodules. <i>Symbiosis</i> , 2015, 67, 125-133.	2.3	36
16	The Global Response Regulator RegR Controls Expression of Denitrification Genes in <i>Bradyrhizobium japonicum</i> . <i>PLoS ONE</i> , 2014, 9, e99011.	2.5	47
17	<i>FixK2</i> , a key regulator in <i>Bradyrhizobium japonicum</i> , is a substrate for the protease ClpAP in vitro. <i>FEBS Letters</i> , 2013, 587, 88-93.	2.8	22
18	The Structure of <i>Bradyrhizobium japonicum</i> Transcription Factor <i>FixK2</i> Unveils Sites of DNA Binding and Oxidation. <i>Journal of Biological Chemistry</i> , 2013, 288, 14238-14246.	3.4	31

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19	Ecology of Denitrification in Soils and Plant-Associated Bacteria. , 2013, , 165-182.		16
20	Bacterial Adaptation of Respiration from Oxidic to Microoxidic and Anoxic Conditions: Redox Control. Antioxidants and Redox Signaling, 2012, 16, 819-852.	5.4	170
21	Reactive Oxygen Species-Inducible ECF $\sigma$ Factors of Bradyrhizobium japonicum. PLoS ONE, 2012, 7, e43421.	2.5	41
22	Emerging complexity in the denitrification regulatory network of Bradyrhizobium japonicum. Biochemical Society Transactions, 2011, 39, 284-288.	3.4	20
23	The nitric oxide response in plant-associated endosymbiotic bacteria. Biochemical Society Transactions, 2011, 39, 1880-1885.	3.4	31
24	Autoregulation of fixK 2 gene expression in Bradyrhizobium japonicum. Molecular Genetics and Genomics, 2010, 284, 25-32.	2.1	30
25	NifA is required for maximal expression of denitrification genes in <i>Bradyrhizobium japonicum</i> . Environmental Microbiology, 2010, 12, 393-400.	3.8	33
26	Posttranslational control of transcription factor FixK <sub>2</sub> , 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
27	Global consequences of phosphatidylcholine reduction in Bradyrhizobium japonicum. Molecular Genetics and Genomics, 2008, 280, 59-72.	2.1	30
28	Comprehensive Assessment of the Regulons Controlled by the FixLJ-FixK <sub>2</sub> -FixK <sub>1</sub> Cascade in <i>Bradyrhizobium japonicum</i> . Journal of Bacteriology, 2008, 190, 6568-6579.	2.2	131
29	A multitude of CRP/FNR-like transcription proteins in Bradyrhizobium japonicum. Biochemical Society Transactions, 2006, 34, 156-159.	3.4	36
30	Denitrification ability of rhizobial strains isolated from Lotus sp.. Antonie Van Leeuwenhoek, 2006, 89, 479-484.	1.7	19
31	Transcription Activation In Vitro by the Bradyrhizobium japonicum Regulatory Protein FixK 2. Journal of Bacteriology, 2005, 187, 3329-3338.	2.2	56
32	Expression of nir, nor and nos denitrification genes from Bradyrhizobium japonicum in soybean root nodules. Physiologia Plantarum, 2004, 120, 205-211.	5.2	62
33	Molecular characterization of nosRZDFYLX genes coding for denitrifying nitrous oxide reductase of Bradyrhizobium japonicum. Antonie Van Leeuwenhoek, 2004, 85, 229-235.	1.7	77
34	Bradyrhizobium japonicum NnrR, a Denitrification Regulator, Expands the FixLJ-FixK 2 Regulatory Cascade. Journal of Bacteriology, 2003, 185, 3978-3982.	2.2	119
35	Characterization of the norCBQD genes, encoding nitric oxide reductase, in the nitrogen fixing bacterium Bradyrhizobium japonicum b bThe GenBank accession number for the B. japonicum norCBQD genes reported in this paper is AJ132911.. Microbiology (United Kingdom), 2002, 148, 3553-3560.	1.8	59
36	The nir, nor, and nos denitrification genes are dispersed over the Bradyrhizobium japonicum chromosome. Archives of Microbiology, 2001, 176, 136-142.	2.2	25

#	ARTICLE	IF	CITATIONS
37	Characterization of the nirK gene encoding the respiratory, Cu-containing nitrite reductase of <i>Bradyrhizobium japonicum</i> . <i>Biochimica Et Biophysica Acta Gene Regulatory Mechanisms</i> , 2001, 1521, 130-134.	2.4	59