

Maria J Delgado

List of Publications by Year in descending order

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60
papers

2,573
citations

159585

30
h-index

197818

49
g-index

60
all docs

60
docs citations

60
times ranked

2330
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	Bacterial nitric oxide metabolism: Recent insights in rhizobia. <i>Advances in Microbial Physiology</i> , 2021, 78, 259-315.	2.4	13
4	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
5	Copper modulates nitrous oxide emissions from soybean root nodules. <i>Environmental and Experimental Botany</i> , 2020, 180, 104262.	4.2	10
6	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
7	<i>Rhizobium etli</i> Produces Nitrous Oxide by Coupling the Assimilatory and Denitrification Pathways. <i>Frontiers in Microbiology</i> , 2019, 10, 980.	3.5	14
8	The <i>Bradyrhizobium diazoefficiens</i> two-component system NtrYX has a key role in symbiotic nitrogen fixation of soybean plants and <i>cbb3</i> oxidase expression in bacteroids. <i>Plant and Soil</i> , 2019, 440, 167-183.	3.7	8
9	The Hemoglobin Bjgb From <i>Bradyrhizobium diazoefficiens</i> Controls NO Homeostasis in Soybean Nodules to Protect Symbiotic Nitrogen Fixation. <i>Frontiers in Microbiology</i> , 2019, 10, 2915.	3.5	17
10	Overexpression of the periplasmic nitrate reductase supports anaerobic growth by <i>Ensifer meliloti</i> . <i>FEMS Microbiology Letters</i> , 2018, 365, .	1.8	17
11	Redefining nitric oxide production in legume nodules through complementary insights from electron paramagnetic resonance spectroscopy and specific fluorescent probes. <i>Journal of Experimental Botany</i> , 2018, 69, 3703-3714.	4.8	32
12	Disparate response to microoxia and nitrogen oxides of the <i>Bradyrhizobium japonicum</i> <i>napEDABC</i> , <i>nirK</i> and <i>norCBQD</i> denitrification genes. <i>Nitric Oxide - Biology and Chemistry</i> , 2017, 68, 137-149.	2.7	46
13	Dissecting the role of NtrC and RpoN in the expression of assimilatory nitrate and nitrite reductases in <i>Bradyrhizobium diazoefficiens</i> . <i>Antonie Van Leeuwenhoek</i> , 2017, 110, 531-542.	1.7	10
14	<i>FixK2</i> Is the Main Transcriptional Activator of <i>Bradyrhizobium diazoefficiens</i> <i>nosRZDYFLX</i> Genes in Response to Low Oxygen. <i>Frontiers in Microbiology</i> , 2017, 8, 1621.	3.5	37
15	Nitrous Oxide Metabolism in Nitrate-Reducing Bacteria. <i>Advances in Microbial Physiology</i> , 2016, 68, 353-432.	2.4	79
16	An integrated biochemical system for nitrate assimilation and nitric oxide detoxification in <i>Bradyrhizobium japonicum</i> . <i>Biochemical Journal</i> , 2016, 473, 297-309.	3.7	46
17	Anoxic growth of <i>Ensifer meliloti</i> 1021 by N ₂ O-reduction, a potential mitigation strategy. <i>Frontiers in Microbiology</i> , 2015, 6, 537.	3.5	42
18	Nitrate and flooding induce N ₂ O emissions from soybean nodules. <i>Symbiosis</i> , 2015, 67, 125-133.	2.3	36

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19	Genetic basis for denitrification in <i>Ensifer meliloti</i> . BMC Microbiology, 2014, 14, 142.	3.3	33
20	The Global Response Regulator RegR Controls Expression of Denitrification Genes in <i>Bradyrhizobium japonicum</i> . PLoS ONE, 2014, 9, e99011.	2.5	47
21	<i>Burkholderia phymatum</i> improves salt tolerance of symbiotic nitrogen fixation in <i>Phaseolus vulgaris</i> . Plant and Soil, 2013, 367, 673-685.	3.7	21
22	Functional analysis of the copy 1 of the <i>fixNOQP</i> operon of <i>Ensifer meliloti</i> under free-living micro-oxic and symbiotic conditions. Journal of Applied Microbiology, 2013, 114, 1772-1781.	3.1	14
23	Enhanced expression of <i>Rhizobium etli</i> cbb 3 oxidase improves drought tolerance of common bean symbiotic nitrogen fixation. Journal of Experimental Botany, 2012, 63, 5035-5043.	4.8	34
24	Bacterial Adaptation of Respiration from Oxidic to Microoxic and Anoxic Conditions: Redox Control. Antioxidants and Redox Signaling, 2012, 16, 819-852.	5.4	170
25	Role of trehalose in heat and desiccation tolerance in the soil bacterium <i>Rhizobium etli</i> . BMC Microbiology, 2012, 12, 207.	3.3	107
26	Emerging complexity in the denitrification regulatory network of <i>Bradyrhizobium japonicum</i> . Biochemical Society Transactions, 2011, 39, 284-288.	3.4	20
27	Nitric oxide detoxification in the rhizobia-legume symbiosis. Biochemical Society Transactions, 2011, 39, 184-188.	3.4	52
28	The nitric oxide response in plant-associated endosymbiotic bacteria. Biochemical Society Transactions, 2011, 39, 1880-1885.	3.4	31
29	Denitrification in <i>Sinorhizobium meliloti</i> . Biochemical Society Transactions, 2011, 39, 1886-1889.	3.4	30
30	Regulation and Symbiotic Role of <i>nirK</i> and <i>nirC</i> Expression in <i>Rhizobium etli</i> . Molecular Plant-Microbe Interactions, 2011, 24, 233-245.	2.6	28
31	Involvement of <i>Bradyrhizobium japonicum</i> denitrification in symbiotic nitrogen fixation by soybean plants subjected to flooding. Soil Biology and Biochemistry, 2011, 43, 212-217.	8.8	35
32	Denitrification Activity in Soils for Sustainable Agriculture. , 2011, , 321-338.		3
33	MOLYBDATE TRANSPORT IN THE <i>Bradyrhizobium japonicum</i> - <i>Glycine max</i> L. SYMBIOSIS. Journal of Soil Science and Plant Nutrition, 2011, 11, 8-17.	3.4	1
34	Production of Nitric Oxide and Nitrosylhemoglobin Complexes in Soybean Nodules in Response to Flooding. Molecular Plant-Microbe Interactions, 2010, 23, 702-711.	2.6	107
35	First indications for the involvement of strigolactones on nodule formation in alfalfa (<i>Medicago</i>) Tj ETQq1 1 0.784314 rgBT / Overlock 10	8.8	174
36	<i>NifA</i> 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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37	<i>Burkholderia phymatum</i> Strains Capable of Nodulating <i>Phaseolus vulgaris</i> Are Present in Moroccan Soils. <i>Applied and Environmental Microbiology</i> , 2010, 76, 4587-4591.	3.1	75
38	Expression of <i>Bradyrhizobium japonicum</i> cbb ₃ terminal oxidase under denitrifying conditions is subjected to redox control. <i>FEMS Microbiology Letters</i> , 2009, 298, 20-28.	1.8	11
39	Role of <i>Bradyrhizobium japonicum</i> cytochrome c ₅₅₀ in nitrite and nitrate respiration. <i>FEMS Microbiology Letters</i> , 2008, 279, 188-194.	1.8	29
40	The contribution of bacteroidal nitrate and nitrite reduction to the formation of nitrosylhaemoglobin complexes in soybean root nodules. <i>Microbiology (United Kingdom)</i> , 2007, 153, 411-419.	1.8	89
41	Denitrification in Rhizobia-Legume Symbiosis. , 2007, , 83-91.		28
42	Novel Reiterated Fnr-Type Proteins Control the Production of the Symbiotic Terminal Oxidase cbb ₃ in <i>Rhizobium etli</i> CFN42. <i>Molecular Plant-Microbe Interactions</i> , 2007, 20, 1241-1249.	2.6	19
43	The <i>Bradyrhizobium japonicum</i> napEDABC genes are controlled by the FixLJ-FixK2-NnrR regulatory cascade. <i>Biochemical Society Transactions</i> , 2006, 34, 108-110.	3.4	35
44	The role of <i>Bradyrhizobium japonicum</i> nitric oxide reductase in nitric oxide detoxification in soya bean root nodules. <i>Biochemical Society Transactions</i> , 2006, 34, 195-196.	3.4	21
45	Denitrification ability of rhizobial strains isolated from <i>Lotus</i> sp.. <i>Antonie Van Leeuwenhoek</i> , 2006, 89, 479-484.	1.7	19
46	Functional characterization of the <i>Bradyrhizobium japonicum</i> modA and modB genes involved in molybdenum transport. <i>Microbiology (United Kingdom)</i> , 2006, 152, 199-207.	1.8	55
47	Molybdate-dependent expression of the periplasmic nitrate reductase in <i>Bradyrhizobium japonicum</i> . <i>Biochemical Society Transactions</i> , 2005, 33, 127-129.	3.4	0
48	Function of the <i>Rhizobium etli</i> CFN42 nirK gene in nitrite metabolism. <i>Biochemical Society Transactions</i> , 2005, 33, 162-163.	3.4	16
49	The complete denitrification pathway of the symbiotic, nitrogen-fixing bacterium <i>Bradyrhizobium japonicum</i> . <i>Biochemical Society Transactions</i> , 2005, 33, 141-144.	3.4	155
50	Expression of nir, nor and nos denitrification genes from <i>Bradyrhizobium japonicum</i> in soybean root nodules. <i>Physiologia Plantarum</i> , 2004, 120, 205-211.	5.2	62
51	Molecular characterization of nosRZDFYLX genes coding for denitrifying nitrous oxide reductase of <i>Bradyrhizobium japonicum</i> . <i>Antonie Van Leeuwenhoek</i> , 2004, 85, 229-235.	1.7	77
52	The <i>Bradyrhizobium japonicum</i> napEDABC genes encoding the periplasmic nitrate reductase are essential for nitrate respiration. <i>Microbiology (United Kingdom)</i> , 2003, 149, 3395-3403.	1.8	98
53	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
54	One of Two hemN Genes in <i>Bradyrhizobium japonicum</i> Is Functional during Anaerobic Growth and in Symbiosis. <i>Journal of Bacteriology</i> , 2001, 183, 1300-1311.	2.2	57

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55	Soluble and membrane-bound nitrate reductase from <i>Bradyrhizobium japonicum</i> bacteroids. <i>Plant Physiology and Biochemistry</i> , 1998, 36, 279-283.	5.8	9
56	Genes Involved in the Formation and Assembly of Rhizobial Cytochromes and their Role in Symbiotic Nitrogen Fixation. <i>Advances in Microbial Physiology</i> , 1998, 40, 191-231.	2.4	64
57	Effects of salt stress on growth and nitrogen fixation by pea, faba-bean, common bean and soybean plants. <i>Soil Biology and Biochemistry</i> , 1994, 26, 371-376.	8.8	192
58	Nitrate reductase and nitrite reductase activity in free-living cells and bacteroids of <i>Rhizobium loti</i> . <i>Plant and Soil</i> , 1992, 139, 203-207.	3.7	6
59	Constitutive and nitrate-induced, membrane-bound nitrate reductase from <i>Bradyrhizobium japonicum</i> . <i>Current Microbiology</i> , 1992, 24, 121-124.	2.2	3
60	Nitrate reductase activity of free-living and symbiotic uptake hydrogenase-positive and uptake hydrogenase-negative strains of <i>Bradyrhizobium japonicum</i> . <i>Archives of Microbiology</i> , 1989, 151, 166-170.	2.2	11