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	Effects of salt stress on growth and nitrogen fixation by pea, faba-bean, common bean and soybean plants. Soil Biology and Biochemistry, 1994, 26, 371-376.	8.8	192
2	First indications for the involvement of strigolactones on nodule formation in alfalfa (Medicago) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 70	8.8	174
3	Bacterial Adaptation of Respiration from Oxic to Microoxic and Anoxic Conditions: Redox Control. Antioxidants and Redox Signaling, 2012, 16, 819-852.	5.4	170
4	The complete denitrification pathway of the symbiotic, nitrogen-fixing bacterium Bradyrhizobium japonicum. Biochemical Society Transactions, 2005, 33, 141-144.	3.4	155
5	Production of Nitric Oxide and Nitrosylleghemoglobin Complexes in Soybean Nodules in Response to Flooding. Molecular Plant-Microbe Interactions, 2010, 23, 702-711.	2.6	107
6	Role of trehalose in heat and desiccation tolerance in the soil bacterium Rhizobium etli. BMC Microbiology, 2012, 12, 207.	3.3	107
7	The Bradyrhizobium japonicum napEDABC genes encoding the periplasmic nitrate reductase are essential for nitrate respiration. Microbiology (United Kingdom), 2003, 149, 3395-3403.	1.8	98
8	The contribution of bacteroidal nitrate and nitrite reduction to the formation of nitrosylleghaemoglobin complexes in soybean root nodules. Microbiology (United Kingdom), 2007, 153, 411-419.	1.8	89
9	Nitrous Oxide Metabolism in Nitrate-Reducing Bacteria. Advances in Microbial Physiology, 2016, 68, 353-432.	2.4	79
10	Molecular characterization of nosRZDFYLX genes coding for denitrifying nitrous oxide reductase of Bradyrhizobium japonicum. Antonie Van Leeuwenhoek, 2004, 85, 229-235.	1.7	77
11	Burkholderia phymatum Strains Capable of Nodulating Phaseolus vulgaris Are Present in Moroccan Soils. Applied and Environmental Microbiology, 2010, 76, 4587-4591.	3.1	75
12	Genes Involved in the Formation and Assembly of Rhizobial Cytochromes and their Role in Symbiotic Nitrogen Fixation. Advances in Microbial Physiology, 1998, 40, 191-231.	2.4	64
13	Expression of nir, nor and nos denitrification genes from Bradyrhizobium japonicum in soybean root nodules. Physiologia Plantarum, 2004, 120, 205-211.	5.2	62
14	Characterization of the nirK gene encoding the respiratory, Cu-containing nitrite reductase of Bradyrhizobium japonicum. Biochimica Et Biophysica Acta Gene Regulatory Mechanisms, 2001, 1521, 130-134.	2.4	59
15	One of Two hemN Genes in Bradyrhizobium japonicum Is Functional during Anaerobic Growth and in Symbiosis. Journal of Bacteriology, 2001, 183, 1300-1311.	2.2	57
16	Functional characterization of the Bradyrhizobium japonicum modA and modB genes involved in molybdenum transport. Microbiology (United Kingdom), 2006, 152, 199-207.	1.8	55
17	Nitric oxide detoxification in the rhizobiaâ€“legume symbiosis. Biochemical Society Transactions, 2011, 39, 184-188.	3.4	52
18	The Global Response Regulator RegR Controls Expression of Denitrification Genes in Bradyrhizobium japonicum. PLoS ONE, 2014, 9, e99011.	2.5	47

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19	An integrated biochemical system for nitrate assimilation and nitric oxide detoxification in Bradyrhizobium japonicum. Biochemical Journal, 2016, 473, 297-309.	3.7	46
20	Disparate response to microoxia and nitrogen oxides of the Bradyrhizobium japonicum napEDABC, nirK and norCBQD denitrification genes. Nitric Oxide - Biology and Chemistry, 2017, 68, 137-149.	2.7	46
21	Anoxic growth of Ensifer meliloti 1021 by N2O-reduction, a potential mitigation strategy. Frontiers in Microbiology, 2015, 6, 537.	3.5	42
22	FixK2 Is the Main Transcriptional Activator of Bradyrhizobium diazoefficiens nosRZDYFLX Genes in Response to Low Oxygen. Frontiers in Microbiology, 2017, 8, 1621.	3.5	37
23	Nitrate and flooding induce N2O emissions from soybean nodules. Symbiosis, 2015, 67, 125-133.	2.3	36
24	The Bradyrhizobium japonicum napEDABC genes are controlled by the FixLJ-FixK2-NnrR regulatory cascade. Biochemical Society Transactions, 2006, 34, 108-110.	3.4	35
25	Involvement of Bradyrhizobium japonicum denitrification in symbiotic nitrogen fixation by soybean plants subjected to flooding. Soil Biology and Biochemistry, 2011, 43, 212-217.	8.8	35
26	Enhanced expression of Rhizobium etli cbb 3 oxidase improves drought tolerance of common bean symbiotic nitrogen fixation. Journal of Experimental Botany, 2012, 63, 5035-5043.	4.8	34
27	NifA is required for maximal expression of denitrification genes in Bradyrhizobium japonicum. Environmental Microbiology, 2010, 12, 393-400.	3.8	33
28	Genetic basis for denitrification in Ensifer meliloti. BMC Microbiology, 2014, 14, 142.	3.3	33
29	Redefining nitric oxide production in legume nodules through complementary insights from electron paramagnetic resonance spectroscopy and specific fluorescent probes. Journal of Experimental Botany, 2018, 69, 3703-3714.	4.8	32
30	The nitric oxide response in plant-associated endosymbiotic bacteria. Biochemical Society Transactions, 2011, 39, 1880-1885.	3.4	31
31	Denitrification in Sinorhizobium meliloti. Biochemical Society Transactions, 2011, 39, 1886-1889.	3.4	30
32	Role ofBradyrhizobium japonicumcytochromec₅₅₀in nitrite and nitrate respiration. FEMS Microbiology Letters, 2008, 279, 188-194.	1.8	29
33	Denitrification in Rhizobia-Legume Symbiosis. , 2007, , 83-91.		28
34	Regulation and Symbiotic Role of nirK and norC Expression in Rhizobium etli. Molecular Plant-Microbe Interactions, 2011, 24, 233-245.	2.6	28
35	The role of Bradyrhizobium japonicum nitric oxide reductase in nitric oxide detoxification in soya bean root nodules. Biochemical Society Transactions, 2006, 34, 195-196.	3.4	21
36	Burkholderia phymatum improves salt tolerance of symbiotic nitrogen fixation in Phaseolus vulgaris. Plant and Soil, 2013, 367, 673-685.	3.7	21

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37	Emerging complexity in the denitrification regulatory network of Bradyrhizobium japonicum. Biochemical Society Transactions, 2011, 39, 284-288.	3.4	20
38	Denitrification ability of rhizobial strains isolated from Lotus sp.. Antonie Van Leeuwenhoek, 2006, 89, 479-484.	1.7	19
39	Novel Reiterated Fnr-Type Proteins Control the Production of the Symbiotic Terminal Oxidase cbb₃ in Rhizobium etli CFN42. Molecular Plant-Microbe Interactions, 2007, 20, 1241-1249.	2.6	19
40	Overexpression of the periplasmic nitrate reductase supports anaerobic growth by Ensifer meliloti. FEMS Microbiology Letters, 2018, 365, .	1.8	17
41	The Hemoglobin Bjgb From Bradyrhizobium diazoefficiens Controls NO Homeostasis in Soybean Nodules to Protect Symbiotic Nitrogen Fixation. Frontiers in Microbiology, 2019, 10, 2915.	3.5	17
42	Function of the Rhizobium etli CFN42 nirK gene in nitrite metabolism. Biochemical Society Transactions, 2005, 33, 162-163.	3.4	16
43	Expanding the Regulon of the Bradyrhizobium diazoefficiens NnrR Transcription Factor: New Insights Into the Denitrification Pathway. Frontiers in Microbiology, 2019, 10, 1926.	3.5	16
44	Functional analysis of the copy 1 of the fixNOQP operon of Ensifer meliloti under free-living micro-oxic and symbiotic conditions. Journal of Applied Microbiology, 2013, 114, 1772-1781.	3.1	14
45	Rhizobium etli Produces Nitrous Oxide by Coupling the Assimilatory and Denitrification Pathways. Frontiers in Microbiology, 2019, 10, 980.	3.5	14
46	Bacterial nitric oxide metabolism: Recent insights in rhizobia. Advances in Microbial Physiology, 2021, 78, 259-315.	2.4	13
47	Nitrate reductase activity of free-living and symbiotic uptake hydrogenase-positive and uptake hydrogenase-negative strains of Bradyrhizobium japonicum. Archives of Microbiology, 1989, 151, 166-170.	2.2	11
48	Expression ofBradyrhizobium japonicum cbb₃Ã¢Â€Âƒterminal oxidase under denitrifying conditions is subjected to redox control. FEMS Microbiology Letters, 2009, 298, 20-28.	1.8	11
49	Dissecting the role of NtrC and RpoN in the expression of assimilatory nitrate and nitrite reductases in Bradyrhizobium diazoefficiens. Antonie Van Leeuwenhoek, 2017, 110, 531-542.	1.7	10
50	Copper modulates nitrous oxide emissions from soybean root nodules. Environmental and Experimental Botany, 2020, 180, 104262.	4.2	10
51	Soluble and membrane-bound nitrate reductase from Bradyrhizobium japonicum bacteroids. Plant Physiology and Biochemistry, 1998, 36, 279-283.	5.8	9
52	Dissection of <scp>FixK₂ proteinâ€“DNA</scp> interaction unveils new insights into Bradyrhizobium diazoefficiens lifestyles control. Environmental Microbiology, 2021, 23, 6194-6209.	3.8	9
53	The Bradyrhizobium diazoefficiens two-component system NtrYX has a key role in symbiotic nitrogen fixation of soybean plants and cbb3 oxidase expression in bacteroids. Plant and Soil, 2019, 440, 167-183.	3.7	8
54	Nitrate reductase and nitrite reductase activity in free-living cells and bacteroids of Rhizobium loti. Plant and Soil, 1992, 139, 203-207.	3.7	6

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55	Effect of Copper on Expression of Functional Genes and Proteins Associated with Bradyrhizobium diazoefficiens Denitrification. International Journal of Molecular Sciences, 2022, 23, 3386.	4.1	6
56	Regulation of the Emissions of the Greenhouse Gas Nitrous Oxide by the Soybean Endosymbiont Bradyrhizobium diazoefficiens. International Journal of Molecular Sciences, 2022, 23, 1486.	4.1	5
57	Constitutive and nitrate-induced, membrane-bound nitrate reductase fromBradyrhizobium japonicum. Current Microbiology, 1992, 24, 121-124.	2.2	3
58	Denitrification Activity in Soils for Sustainable Agriculture. , 2011, , 321-338.		3
59	MOLYBDATE TRANSPORT IN THE Bradyrhizobium japonicum - Glycine max L. SYMBIOSIS. Journal of Soil Science and Plant Nutrition, 2011, 11, 8-17.	3.4	1
60	Molybdate-dependent expression of the periplasmic nitrate reductase in Bradyrhizobium japonicum. Biochemical Society Transactions, 2005, 33, 127-129.	3.4	0