Manuel Gonzalez-Guerrero

List of Publications by Year
in descending order

51 papers	3,249 citations	186265 28 h-index	233421 45 g-index
64 all docs	64 docs citations	64 times ranked	3019 citing authors

#	Article	IF	Citations
1	The structure and function of heavy metal transport P1B-ATPases. BioMetals, 2007, 20, 233-248.	4.1	303
2	Unlocking the bacterial and fungal communities assemblages of sugarcane microbiome. Scientific Reports, 2016, 6, 28774.	3.3	269
3	Mechanism of Cu⁺-transporting ATPases: Soluble Cu⁺chaperones directly transfer Cu⁺to transmembrane transport sites. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5992-5997.	7.1	210
4	GintAMT1 encodes a functional high-affinity ammonium transporter that is expressed in the extraradical mycelium of Glomus intraradices. Fungal Genetics and Biology, 2006, 43, 102-110.	2.1	175
5	Characterization of a Glomus intraradices gene encoding a putative Zn transporter of the cation diffusion facilitator family. Fungal Genetics and Biology, 2005, 42, 130-140.	2.1	172
6	Ultrastructural localization of heavy metals in the extraradical mycelium and spores of the arbuscular mycorrhizal fungus<i>Glomus intraradices</i>. Canadian Journal of Microbiology, 2008, 54, 103-110.	1.7	158
7	Distinct functional roles of homologous Cu⁺ efflux ATPases in <i>Pseudomonas aeruginosa</i>. Molecular Microbiology, 2010, 78, 1246-1258.	2.5	139
8	Transition Metal Transport in Plants and Associated Endosymbionts: Arbuscular Mycorrhizal Fungi and Rhizobia. Frontiers in Plant Science, 2016, 7, 1088.	3.6	131
9	The transport mechanism of bacterial Cu+-ATPases: distinct efflux rates adapted to different function. BioMetals, 2011, 24, 467-475.	4.1	106
10	Bacterial Transition Metal P_{1B}-ATPases: Transport Mechanism and Roles in Virulence. Biochemistry, 2011, 50, 9940-9949.	2.5	101
11	GintMT1 encodes a functional metallothionein in Glomus intraradices that responds to oxidative stress. Mycorrhiza, 2007, 17, 327-335.	2.8	98
12	Metal Transport across Biomembranes: Emerging Models for a Distinct Chemistry. Journal of Biological Chemistry, 2012, 287, 13510-13517.	3.4	94
13	Structure of the Two Transmembrane Cu+ Transport Sites of the Cu+-ATPases*. Journal of Biological Chemistry, 2008, 283, 29753-29759.	3.4	90
14	Survival strategies of arbuscular mycorrhizal fungi in Cu-polluted environments. Phytochemistry Reviews, 2009, 8, 551-559.	6.5	89
15	Fixating on metals: new insights into the role of metals in nodulation and symbiotic nitrogen fixation. Frontiers in Plant Science, 2014, 5, 45.	3.6	87
16	<i>Medicago truncatula</i> Natural Resistance-Associated Macrophage Protein1 Is Required for Iron Uptake by Rhizobia-Infected Nodule Cells Â. Plant Physiology, 2015, 168, 258-272.	4.8	85
17	<i>Medicago truncatula</i> Molybdate Transporter type 1 (MtMOT1.3) is a plasma membrane molybdenum transporter required for nitrogenase activity in root nodules under molybdenum deficiency. New Phytologist, 2017, 216, 1223-1235.	7.3	79
18	GintABC1 encodes a putative ABC transporter of the MRP subfamily induced by Cu, Cd, and oxidative stress in Glomus intraradices. Mycorrhiza, 2010, 20, 137-146.	2.8	76

#	Article	IF	Citations
19	Characterization of a CuZn superoxide dismutase gene in the arbuscular mycorrhizal fungus Glomus intraradices. Current Genetics, 2010, 56, 265-274.	1.7	73
20	An Iron-Activated Citrate Transporter, MtMATE67, Is Required for Symbiotic Nitrogen Fixation. Plant Physiology, 2018, 176, 2315-2329.	4.8	55
21	MtMOT1.2 is responsible for molybdate supply to <scp><i>Medicago truncatula</i></scp> nodules. Plant, Cell and Environment, 2019, 42, 310-320.	5.7	54
22	Novel Zn2+ Coordination by the Regulatory N-Terminus Metal Binding Domain of Arabidopsis thaliana Zn2+-ATPase HMA2. Biochemistry, 2007, 46, 7754-7764.	2.5	52
23	Chaperone-mediated Cu+ Delivery to Cu+ Transport ATPases. Journal of Biological Chemistry, 2009, 284, 20804-20811.	3.4	52
24	Iron distribution through the developmental stages of Medicago truncatula nodules. Metallomics, 2013, 5, 1247.	2.4	52
25	<i>Medicago truncatula</i> copper transporter 1 (Mt<scp>COPT</scp>1) delivers copper for symbiotic nitrogen fixation. New Phytologist, 2018, 218, 696-709.	7.3	42
26	<scp><i>Medicago truncatula</i> Zincâ€Iron Permease6</scp> provides zinc to rhizobiaâ€infected nodule cells. Plant, Cell and Environment, 2017, 40, 2706-2719.	5.7	40
27	Sinorhizobium meliloti Nia is a P1B-5-ATPase expressed in the nodule during plant symbiosis and is involved in Ni and Fe transport. Metallomics, 2013, 5, 1614.	2.4	39
28	Mechanisms Underlying Heavy Metal Tolerance in Arbuscular Mycorrhizas. , 2009, , 107-122.		37
29	Micronutrient homeostasis in plants for more sustainable agriculture and healthier human nutrition. Journal of Experimental Botany, 2022, 73, 1789-1799.	4.8	35
30	MtMTP2-Facilitated Zinc Transport Into Intracellular Compartments Is Essential for Nodule Development in Medicago truncatula. Frontiers in Plant Science, 2018, 9, 990.	3.6	23
31	<i>Medicago truncatula</i> Ferroportin2 mediates iron import into nodule symbiosomes. New Phytologist, 2020, 228, 194-209.	7.3	23
32	HIV-1 Tat Inhibits IL-2 Gene Transcription Through Qualitative and Quantitative Alterations of the Cooperative Rel/AP1 Complex Bound to the CD28RE/AP1 Composite Element of the IL-2 Promoter. Journal of Immunology, 2001, 166, 4560-4569.	0.8	22
33	Unravelling potassium nutrition in ectomycorrhizal associations. New Phytologist, 2014, 201, 707-709.	7.3	22
34	Genomic Diversity in the Endosymbiotic Bacterium Rhizobium leguminosarum. Genes, 2018, 9, 60.	2.4	22
35	Chitin Triggers Calcium-Mediated Immune Response in the Plant Model <i>Physcomitrella patens</i>. Molecular Plant-Microbe Interactions, 2020, 33, 911-920.	2.6	18
36	MtCOPT2 is a Cu+ transporter specifically expressed in Medicago truncatula mycorrhizal roots. Mycorrhiza, 2020, 30, 781-788.	2.8	15

#	Article	IF	Citations
37	Soybean Yellow Stripe-like 7 is a symbiosome membrane peptide transporter important for nitrogen fixation. Plant Physiology, 2021, 186, 581-598.	4.8	14
38	Nicotianamine Synthase 2 Is Required for Symbiotic Nitrogen Fixation in Medicago truncatula Nodules. Frontiers in Plant Science, 2019, 10, 1780.	3.6	13
39	Cu+-ATPases Brake System. Structure, 2008, 16, 833-834.	3.3	12
40	The Diverse Iron Distribution in Eudicotyledoneae Seeds: From Arabidopsis to Quinoa. Frontiers in Plant Science, 2018, 9, 1985.	3.6	12
41	The <i>Medicago truncatula Yellow Stripe1-Like3</i> gene is involved in vascular delivery of transition metals to root nodules. Journal of Experimental Botany, 2020, 71, 7257-7269.	4.8	10
42	Robust Survival-Based RNA Interference of Gene Families Using in Tandem Silencing of Adenine Phosphoribosyltransferase. Plant Physiology, 2020, 184, 607-619.	4.8	8
43	<i>Arabidopsis thaliana</i>Zn2+-efflux ATPases HMA2 and HMA4 are required for resistance to the necrotrophic fungus<i>Plectosphaerella cucumerina</i>BMM. Journal of Experimental Botany, 2022, 73, 339-350.	4.8	8
44	<i><scp>Medicago truncatula</scp> Yellow <scp>Stripeâ€Like7</scp></i> encodes a peptide transporter participating in symbiotic nitrogen fixation. Plant, Cell and Environment, 2021, 44, 1908-1920.	5.7	7
45	Genomics of Arbuscular Mycorrhizal Fungi. Applied Mycology and Biotechnology, 2004, 4, 379-403.	0.3	6
46	In vitro Cultures Open New Prospects for Basic Research in Arbuscular Mycorrhizas. , 2008, , 627-654.		3
47	Editorial: Metallic Micronutrient Homeostasis in Plants. Frontiers in Plant Science, 2019, 10, 927.	3.6	3
48	Interplay of Ligand Binding, Domain Interaction and Chaperone Mediated Cu+ Delivery to Cu+ Transport ATPases. Biophysical Journal, 2009, 96, 144a.	0.5	0
49	The Mechanism of Bacterial Cu+-ATPases. Distinct Efflux Rates Adapted to Different Function. Biophysical Journal, 2011, 100, 465a.	0.5	0
50	When Two's Company: New Evidences on Dual Fe/Co Selectivity ofÂTransport in the Co2+-Exporting Cation Diffusion Facilitators (CoF-eCDF) Family. Biophysical Journal, 2020, 118, 131a.	0.5	0
51	Mechanistic steps of metal uploading into Cu + â€transporting ATPases. FASEB Journal, 2009, 23, 867.3.	0.5	0