Sergio Svistoonoff

List of Publications by Year
in descending order

60 papers	3,027 citations	230014 27 h-index	198040 52 g-index
64 all docs	64 docs citations	64 times ranked	3270 citing authors

#	Article	IF	Citations
1	Root tip contact with low-phosphate media reprograms plant root architecture. Nature Genetics, 2007, 39, 792-796.	9.4	526
2	Phylogenomics reveals multiple losses of nitrogen-fixing root nodule symbiosis. Science, 2018, 361, .	6.0	339
3	SymRK defines a common genetic basis for plant root endosymbioses with arbuscular mycorrhiza fungi, rhizobia, and <i>Frankia</i> bacteria. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 4928-4932.	3.3	259
4	Identification of QTL controlling root growth response to phosphate starvation in Arabidopsis thaliana. Plant, Cell and Environment, 2006, 29, 115-125.	2.8	205
5	Roles of Arbuscular Mycorrhizal Fungi on Plant Growth and Performance: Importance in Biotic and Abiotic Stressed Regulation. Diversity, 2020, 12, 370.	0.7	198
6	The Independent Acquisition of Plant Root Nitrogen-Fixing Symbiosis in Fabids Recruited the Same Genetic Pathway for Nodule Organogenesis. PLoS ONE, 2013, 8, e64515.	1.1	88
7	The <i>Casuarina <scp>NIN</scp></i> gene is transcriptionally activated throughout <i>Frankia</i> root infection as well as in response to bacterial diffusible signals. New Phytologist, 2015, 208, 887-903.	3.5	87
8	Actinorhizal root nodule symbioses: what is signalling telling on the origins of nodulation?. Current Opinion in Plant Biology, 2014, 20, 11-18.	3.5	80
9	cg12 Expression Is Specifically Linked to Infection of Root Hairs and Cortical Cells during Casuarina glauca and Allocasuarina verticillata Actinorhizal Nodule Development. Molecular Plant-Microbe Interactions, 2003, 16, 600-607.	1.4	78
10	Heart of Endosymbioses: Transcriptomics Reveals a Conserved Genetic Program among Arbuscular Mycorrhizal, Actinorhizal and Legume-Rhizobial Symbioses. PLoS ONE, 2012, 7, e44742.	1.1	77
11	Silencing of the chalcone synthase gene in <i><scp>C</scp>asuarina glauca</i> highlights the important role of flavonoids during nodulation. New Phytologist, 2013, 199, 1012-1021.	3.5	64
12	Chitinaseâ€resistant hydrophilic symbiotic factors secreted by <i>Frankia</i> activate both Ca²⁺ spiking and <i><scp>NIN</scp></i> gene expression in the actinorhizal plant <i>Casuarina glauca</i>. New Phytologist, 2016, 209, 86-93.	3.5	62
13	Casuarina glauca Prenodule Cells Display the Same Differentiation as the Corresponding Nodule Cells. Molecular Plant-Microbe Interactions, 2000, 13, 107-112.	1.4	57
14	Symbiotic Signaling in Actinorhizal Symbioses. Current Protein and Peptide Science, 2011, 12, 156-164.	0.7	56
15	Infection-Related Activation of the cg12 Promoter Is Conserved between Actinorhizal and Legume-Rhizobia Root Nodule Symbiosis. Plant Physiology, 2004, 136, 3191-3197.	2.3	52
16	Actinorhizal Signaling Molecules: Frankia Root Hair Deforming Factor Shares Properties With NIN Inducing Factor. Frontiers in Plant Science, 2018, 9, 1494.	1.7	46
17	Infection-Specific Activation of the <i>Medicago truncatula</i> Enod11 Early Nodulin Gene Promoter During Actinorhizal Root Nodulation. Molecular Plant-Microbe Interactions, 2010, 23, 740-747.	1.4	44
18	Casuarina Root Exudates Alter the Physiology, Surface Properties, and Plant Infectivity of Frankia sp. Strain CcI3. Applied and Environmental Microbiology, 2012, 78, 575-580.	1.4	43

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19	Symbiotic Performance of Diverse Frankia Strains on Salt-Stressed Casuarina glauca and Casuarina equisetifolia Plants. Frontiers in Plant Science, 2016, 7, 1331.	1.7	43
20	A transgenic dTph1 insertional mutagenesis system for forward genetics in mycorrhizal phosphate transport of Petunia. Plant Journal, 2008, 54, 1115-1127.	2.8	42
21	Tolerance to environmental stress by the nitrogen-fixing actinobacterium Frankia and its role in actinorhizal plants adaptation. Symbiosis, 2016, 70, 17-29.	1.2	42
22	Effect of Plant Growth Promoting Rhizobacteria (PGPR) and Arbuscular Mycorrhizal Fungi (AMF) on Salt Stress Tolerance of Casuarina obesa (Miq.). Frontiers in Sustainable Food Systems, 2020, 4, .	1.8	42
23	Casuarina in Africa: Distribution, role and importance of arbuscular mycorrhizal, ectomycorrhizal fungi and Frankia on plant development. Journal of Environmental Management, 2013, 128, 204-209.	3.8	37
24	Ectomycorrhizal diversity enhances growth and nitrogen fixation of Acacia mangium seedlings. Soil Biology and Biochemistry, 2013, 57, 468-476.	4.2	36
25	Identification of potential transcriptional regulators of actinorhizal symbioses in Casuarina glauca and Alnus glutinosa. BMC Plant Biology, 2014, 14, 342.	1.6	34
26	Transformed Hairy Roots of Discaria trinervis: A Valuable Tool for Studying Actinorhizal Symbiosis in the Context of Intercellular Infection. Molecular Plant-Microbe Interactions, 2011, 24, 1317-1324.	1.4	31
27	Actinorhizal nitrogen fixing nodules: infection process, molecular biology and genomics. African Journal of Biotechnology, 2003, 2, 528-538.	0.3	30
28	A role for auxin during actinorhizal symbioses formation?. Plant Signaling and Behavior, 2008, 3, 34-35.	1.2	30
29	Cell remodeling and subtilase gene expression in the actinorhizal plant <i>Discaria trinervis</i> highlight host orchestration of intercellular <i>Frankia</i> colonization. New Phytologist, 2018, 219, 1018-1030.	3.5	29
30	Composite Actinorhizal Plants with Transgenic Roots for the Study of Symbiotic Associations with <i>Frankia</i>. Journal of Botany, 2011, 2011, 1-8.	1.2	25
31	Inhibition of Auxin Signaling in <i>Frankia</i> Species-Infected Cells in <i>Casuarina glauca</i> Nodules Leads to Increased Nodulation. Plant Physiology, 2015, 167, 1149-1157.	2.3	25
32	Contribution of transgenic Casuarinaceae to our knowledge of the actinorhizal symbioses. Symbiosis, 2010, 50, 3-11.	1.2	24
33	The plant-growth-promoting actinobacteria of the genus Nocardia induces root nodule formation in Casuarina glauca. Antonie Van Leeuwenhoek, 2019, 112, 75-90.	0.7	24
34	Role of auxin during intercellular infection of Discaria trinervis by Frankia. Frontiers in Plant Science, 2014, 5, 399.	1.7	19
35	Choosing a reporter for gene expression studies in transgenic actinorhizal plants of the Casuarinaceae family. Plant and Soil, 2003, 254, 229-237.	1.8	18
36	Uvitex2B: a rapid and efficient stain for detection of arbuscular mycorrhizal fungi within plant roots. Mycorrhiza, 2011, 21, 315-321.	1.3	17

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37	Selection of arbuscular mycorrhizal fungal strains to improve Casuarina equisetifolia L. and Casuarina glauca Sieb. tolerance to salinity. Annals of Forest Science, 2018, 75, 1.	0.8	17
38	Effect of native and allochthonous arbuscular mycorrhizal fungi on <i>Casuarina equisetifolia</i> growth and its root bacterial community. Arid Land Research and Management, 2018, 32, 212-228.	0.6	11
39	Signalling in actinorhizal root nodule symbioses. Antonie Van Leeuwenhoek, 2019, 112, 23-29.	0.7	11
40	Effect of Casuarina Plantations Inoculated with Arbuscular Mycorrhizal Fungi and Frankia on the Diversity of Herbaceous Vegetation in Saline Environments in Senegal. Diversity, 2020, 12, 293.	0.7	11
41	When Plants Socialize: Symbioses and Root Development. , 0, , 209-238.		9
42	Expression pattern of ara12*, an Arabidopsis homologue of the nodule-specific actinorhizal subtilases cg12/ag12. Plant and Soil, 2003, 254, 239-244.	1.8	7
43	Intraspecies variation in sodium partitioning, potassium and proline accumulation under salt stress in Casuarina equisetifolia Forst. Symbiosis, 2016, 70, 117-127.	1.2	7
44	Genetic diversity and symbiotic efficiency of rhizobial strains isolated from nodules of peanut (Arachis hypogaea L.) in Senegal. Agriculture, Ecosystems and Environment, 2018, 265, 384-391.	2.5	6
45	Les symbioses actinorhiziennes fixatrices dâ€™azote : unÂexemple dâ€™adaptation auxÂcontraintes abiotiques duÂsol. Cahiers Agricultures, 2009, 18, 498-505.	0.4	6
46	Molecular Methods for Research on Actinorhiza. Rhizosphere Biology, 2019, , 35-59.	0.4	5
47	Optimisation of methods for Agrobacterium rhizogenes mediated generation of composite plants in Eucalyptus camaldulensis. BMC Proceedings, 2011, 5, O45.	1.8	4
48	Effect of symbiotic associations with Frankia and arbuscular mycorrhizal fungi on antioxidant activity and cell ultrastructure in C. equisetifolia and C. obesa under salt stress. Journal of Forest Research, 0, , 1-11.	0.7	4
49	Advances in Frankia genome studies and molecular aspects of tolerance to environmental stresses. , 2020, , 381-389.		3
50	Symbiotic Signaling in Actinorhizal Symbioses. Current Protein and Peptide Science, 2011, 999, 1-9.	0.7	3
51	Draft Genome Sequence of the Symbiotic <i>Frankia</i> sp. strain B2 isolated from root nodules of <i>Casuarina cunninghamiana</i> found in Algeria. Journal of Genomics, 2020, 8, 11-15.	0.6	3
52	New insights in the molecular events underlying actinorhizal nodulation in the tropical tree Casuarina glauca. BMC Proceedings, 2011, 5, .	1.8	2
53	Transformed Hairy Roots of the actinorhizal shrub Discaria trinervis: a valuable tool for studying actinorhizal symbiosis in the context of intercellular infection. BMC Proceedings, 2011, 5, .	1.8	2
54	Chitotetraose activates the fungal-dependent endosymbiotic signaling pathway in actinorhizal plant species. PLoS ONE, 2019, 14, e0223149.	1.1	2

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55	Choosing a reporter for gene expression studies in transgenic actinorhizal plants of the Casuarinaceae family. , 2003, , 229-237.		2
56	Development and Function of the Arbuscular Mycorrhizal Symbiosis in Petunia. , 2009, , 131-156.		1
57	Establishment of Actinorhizal Symbiosis in Response to Ethylene, Salicylic Acid, and Jasmonate. Methods in Molecular Biology, 2020, 2085, 117-130.	0.4	1
58	Cell of the month: Allocasuarina verticillata shoots expressing GFP. Nature Cell Biology, 2003, 5, 284-284.	4.6	0
59	Expression pattern of ara12*, an Arabidopsis homologue of the nodule-specific actinorhizal subtilases cg12/ag12. , 2003, , 239-244.		0
60	Effect of Casuarina Crushed Nodules, Rhizospheric Soil and Leaves Compost on Salt Tolerance of <i>Casuarina equisetifolia</i> L. and <i>Casuarina obesa</i> Miq.. Open Journal of Soil Science, 2020, 10, 359-373.	0.3	0