Didier Bogusz

List of Publications by Year
in descending order

82 papers	4,564 citations	125106 35 h-index	116156 66 g-index
90 all docs	90 docs citations	90 times ranked	4328 citing authors

#	Article	IF	Citations
1	Frankia and the actinorhizal symbiosis. , 2020, , 367-380.		2
2	Chitotetraose activates the fungal-dependent endosymbiotic signaling pathway in actinorhizal plant species. PLoS ONE, 2019, 14, e0223149.	1.1	2
3	The role of Frankia inoculation in casuarina plantations in China. Antonie Van Leeuwenhoek, 2019, 112, 47-56.	0.7	9
4	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
5	The Evolution of Living Beings Started with Prokaryotes and in Interaction with Prokaryotes. , 2018, , 241-338.		2
6	Hairy Roots as a Tool for the Functional Analysis of Plant Genes. , 2018, , 275-292.		3
7	Biotechnological strategies for studying actinorhizal symbiosis in Casuarinaceae: transgenesis and beyond. Symbiosis, 2016, 70, 101-109.	1.2	4
8	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
9	An update on research on Frankia and actinorhizal plants on the occasion of the 18th meeting of the Frankia-actinorhizal plants symbiosis. Symbiosis, 2016, 70, 1-4.	1.2	7
10	Influence of salt stress on inoculated Casuarina glauca seedlings. Symbiosis, 2016, 70, 129-138.	1.2	13
11	Intraspecies variation in sodium partitioning, potassium and proline accumulation under salt stress in Casuarina equisetifolia Forst. Symbiosis, 2016, 70, 117-127.	1.2	7
12	Recent advances in actinorhizal symbiosis signaling. Plant Molecular Biology, 2016, 90, 613-622.	2.0	34
13	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
14	Optimization of the conditions for Casuarina cunninghamiana Miq. genetic transformation mediated by Agrobacterium tumefaciens. Plant Cell, Tissue and Organ Culture, 2015, 121, 195-204.	1.2	6
15	Assessment of lead tolerance and accumulation in metallicolous and non-metallicolous populations of Hirschfeldia incana. Environmental and Experimental Botany, 2015, 109, 186-192.	2.0	27
16	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
17	Biological nitrogen fixation in non-legume plants. Annals of Botany, 2013, 111, 743-767.	1.4	580
18	Casuarina glauca: A model tree for basic research in actinorhizal symbiosis. Journal of Biosciences, 2013, 38, 815-823.	0.5	25

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19	Effect of lead on root growth. Frontiers in Plant Science, 2013, 4, 175.	1.7	198
20	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
21	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
22	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
23	The role of flavonoids in the establishment of plant roots endosymbioses with arbuscular mycorrhiza fungi, rhizobia and Frankia bacteria. Plant Signaling and Behavior, 2012, 7, 636-641.	1.2	197
24	Establishment of an in vitro plant regeneration protocol for Casuarina cunninghamiana Miq. via indirect organogenesis. New Forests, 2012, 43, 143-154.	0.7	10
25	Signalling and Communication in the Actinorhizal Symbiosis. Signaling and Communication in Plants, 2012, , 73-92.	0.5	4
26	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
27	Progress on research on actinorhizal plants. Functional Plant Biology, 2011, 38, 633.	1.1	18
28	Activation of the isoflavonoid pathway in actinorhizal symbioses. Functional Plant Biology, 2011, 38, 690.	1.1	48
29	Uvitex2B: a rapid and efficient stain for detection of arbuscular mycorrhizal fungi within plant roots. Mycorrhiza, 2011, 21, 315-321.	1.3	17
30	New insights in the molecular events underlying actinorhizal nodulation in the tropical tree Casuarina glauca. BMC Proceedings, 2011, 5, .	1.8	2
31	Optimisation of methods for Agrobacterium rhizogenes mediated generation of composite plants in Eucalyptus camaldulensis. BMC Proceedings, 2011, 5, O45.	1.8	4
32	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
33	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
34	Transcriptomics of Actinorhizal Symbioses Reveals Homologs of the Whole Common Symbiotic Signaling Cascade Â. Plant Physiology, 2011, 156, 700-711.	2.3	156
35	Early signaling in actinorhizal symbioses.. Plant Signaling and Behavior, 2011, 6, 1377-1379.	1.2	20
36	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

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37	Characterization of four defense-related genes up-regulated in root nodules of Casuarina glauca. Symbiosis, 2010, 50, 27-35.	1.2	11
38	Contribution of transgenic Casuarinaceae to our knowledge of the actinorhizal symbioses. Symbiosis, 2010, 50, 3-11.	1.2	24
39	Casuarina research and applications in China. Symbiosis, 2010, 50, 107-114.	1.2	74
40	Les symbioses actinorhiziennes fixatrices dâ€™azote : unÂexemple dâ€™adaptation auxÂcontraintes abiotiques duÂsol. Cahiers Agricultures, 2009, 18, 498-505.	0.4	6
41	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
42	Cytokinins Act Directly on Lateral Root Founder Cells to Inhibit Root Initiation. Plant Cell, 2008, 19, 3889-3900.	3.1	498
43	Post-Transcriptional Gene Silencing in the Root System of the Actinorhizal Tree <i>Allocasuarina verticillata</i>. Molecular Plant-Microbe Interactions, 2008, 21, 518-524.	1.4	31
44	Functional Analysis of the Metallothionein Gene cgMT1 Isolated from the Actinorhizal Tree Casuarina glauca. Molecular Plant-Microbe Interactions, 2007, 20, 1231-1240.	1.4	28
45	Auxin Influx Activity Is Associated with Frankia Infection during Actinorhizal Nodule Formation in Casuarina glauca Â. Plant Physiology, 2007, 144, 1852-1862.	2.3	84
46	The cell-cycle promoter cdc2aAt from Arabidopsis thaliana is induced in the lateral roots of the actinorhizal tree Allocasuarina verticillata during the early stages of the symbiotic interaction with Frankia. Physiologia Plantarum, 2007, 130, 409-417.	2.6	8
47	Expressed sequenceâ€tag analysis in Casuarina glauca actinorhizal nodule and root. New Phytologist, 2006, 169, 681-688.	3.5	61
48	Analysis of the Expression Pattern Conferred by the PsEnod12B Promoter from the Early Nodulin Gene of Pisum sativum in Transgenic Actinorhizal Trees of the Casuarinaceae Family. Plant and Soil, 2006, 281, 281-289.	1.8	7
49	Comparison of four constitutive promoters for the expression of transgenes in the tropical nitrogen-fixing tree Allocasuarina verticillata. Plant Cell Reports, 2005, 24, 540-548.	2.8	19
50	GAL4-GFP enhancer trap lines for genetic manipulation of lateral root development in Arabidopsis thaliana. Journal of Experimental Botany, 2005, 56, 2433-2442.	2.4	168
51	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
52	The promoter of a metallothionein-like gene from the tropical tree Casuarina glauca is active in both annual dicotyledonous and monocotyledonous plants. Transgenic Research, 2003, 12, 271-281.	1.3	8
53	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
54	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

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55	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
56	Comparison of Nodule Induction in Legume and Actinorhizal Symbioses: The Induction of Actinorhizal Nodules Does Not Involve ENOD40. Molecular Plant-Microbe Interactions, 2003, 16, 808-816.	1.4	33
57	Choosing a reporter for gene expression studies in transgenic actinorhizal plants of the Casuarinaceae family. , 2003, , 229-237.		2
58	Symbiotic and non-symbiotic expression of cgMT1, a metallothionein-like gene from the actinorhizal tree Casuarina glauca. Plant Molecular Biology, 2002, 49, 81-92.	2.0	39
59	Research note: The 35S promoter is not constitutively expressed in the transgenic tropical actinorhizal tree Casuarina glauca. Functional Plant Biology, 2002, 29, 649.	1.1	40
60	Angiosperm Gymnostoma trees produce root nodules colonized by arbuscular mycorrhizal fungi related to Glomus. New Phytologist, 2001, 149, 115-125.	3.5	40
61	Casuarina glauca Prenodule Cells Display the Same Differentiation as the Corresponding Nodule Cells. Molecular Plant-Microbe Interactions, 2000, 13, 107-112.	1.4	57
62	Characterization of a Casuarina glauca Nodule-Specific Subtilisin-like Protease Gene, a Homolog of Alnus glutinosa ag12. Molecular Plant-Microbe Interactions, 2000, 13, 113-117.	1.4	87
63	Molecular Biology of Tropical Nitrogen-Fixing Trees in the Casuarinaceae Family. Forestry Sciences, 2000, , 269-285.	0.4	8
64	Flavan-Containing Cells Delimit Frankia-Infected Compartments in Casuarina glauca Nodules. Plant Physiology, 1999, 121, 113-122.	2.3	63
65	Actinorhizal Symbioses: Recent Advances in Plant Molecular and Genetic Transformation Studies. Critical Reviews in Plant Sciences, 1998, 17, 1-28.	2.7	45
66	Soybean (lbc3), Parasponia, and Trema Hemoglobin Gene Promoters Retain Symbiotic and Nonsymbiotic Specificity in Transgenic Casuarinaceae: Implications for Hemoglobin Gene Evolution and Root Nodule Symbioses. Molecular Plant-Microbe Interactions, 1998, 11, 887-894.	1.4	37
67	Cloning of a full-length symbiotic hemoglobin cDNA and in situ localization of the corresponding mRNA in Casuarina glauca root nodule. Physiologia Plantarum, 1997, 99, 608-616.	2.6	43
68	Genetic transformation of the actinorhizal tree Allocasuarina verticillata by Agrobacterium tumefaciens. Plant Journal, 1997, 11, 897-904.	2.8	78
69	La symbioseCasuarinaceae-Frankia: approche molÃ©culaire du rÃ´le de la plante-hÃ´te. Acta Botanica Gallica, 1996, 143, 621-633.	0.9	5
70	Agrobacterium tumefaciens gene transfer to Casuarina glauca, a tropical nitrogen-fixing tree. Plant Science, 1996, 118, 57-69.	1.7	38
71	Le nodule actinorhizien. Acta Botanica Gallica, 1996, 143, 593-608.	0.9	15
72	Hairy Root Nodulation ofCasuarina glauca:A System for the Study of Symbiotic Gene Expression in an Actinorhizal Tree. Molecular Plant-Microbe Interactions, 1995, 8, 532.	1.4	82

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73	Transient gene expression in cassava using high-velocity microprojectiles. Plant Molecular Biology, 1991, 17, 493-498.	2.0	20
74	Nonlegume Hemoglobin Genes Retain Organ-Specific Expression in Heterologous Transgenic Plants. Plant Cell, 1990, 2, 633.	3.1	15
75	A role for haemoglobin in all plant roots?. Plant, Cell and Environment, 1988, 11, 359-367.	2.8	105
76	Functioning haemoglobin genes in non-nodulating plants. Nature, 1988, 331, 178-180.	13.7	200
77	Sesbania rostrata root and stem nodule leghemoglobins: Purification, and relationships among the seven major components. Archives of Biochemistry and Biophysics, 1987, 254, 263-271.	1.4	24
78	Isolation and characterization of two bacteriophages of a stem-nodulating Rhizobium strain from Sesbania rostrata. Canadian Journal of Microbiology, 1984, 30, 521-525.	0.8	13
79	Kinetic study of the expression of Klebsiella pneumoniae nitrogen fixation (nif) genes under conditions of inhibited transcription. Biochemical and Biophysical Research Communications, 1981, 100, 1237-1244.	1.0	10
80	Electron Tansport to Nitrogenase in Klebsiella pneumoniae. Purification and Properties of the nifj Protein. FEBS Journal, 1981, 120, 421-426.	0.2	15
81	Characterization and kinetics of the biosynthesis of some nitrogen fixation (nif) gene products in Klebsiella pneumoniae. Biochimie, 1980, 62, 267-275.	1.3	19
82	Actinorhizal Symbioses: Recent Advances in Plant Molecular and Genetic Transformation Studies. , 0, .		34