

Rene Geurts

List of Publications by Year in descending order

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74
papers

11,054
citations

76196

40
h-index

76769

74
g-index

80
all docs

80
docs citations

80
times ranked

12132
citing authors

#	ARTICLE	IF	CITATIONS
1	Primer3Plus, an enhanced web interface to Primer3. <i>Nucleic Acids Research</i> , 2007, 35, W71-W74.	6.5	2,323
2	The Medicago genome provides insight into the evolution of rhizobial symbioses. <i>Nature</i> , 2011, 480, 520-524.	13.7	1,166
3	LysM Domain Receptor Kinases Regulating Rhizobial Nod Factor-Induced Infection. <i>Science</i> , 2003, 302, 630-633.	6.0	725
4	A Putative Ca ²⁺ and Calmodulin-Dependent Protein Kinase Required for Bacterial and Fungal Symbioses. <i>Science</i> , 2004, 303, 1361-1364.	6.0	697
5	NSP1 of the GRAS Protein Family Is Essential for Rhizobial Nod Factor-Induced Transcription. <i>Science</i> , 2005, 308, 1789-1791.	6.0	534
6	The Medicago truncatula Lysine Motif-Receptor-Like Kinase Gene Family Includes NFP and New Nodule-Expressed Genes. <i>Plant Physiology</i> , 2006, 142, 265-279.	2.3	467
7	Medicago LYK3, an Entry Receptor in Rhizobial Nodulation Factor Signaling. <i>Plant Physiology</i> , 2007, 145, 183-191.	2.3	322
8	RNA interference in Agrobacterium rhizogenes-transformed roots of Arabidopsis and Medicago truncatula. <i>Journal of Experimental Botany</i> , 2004, 55, 983-992.	2.4	292
9	Strigolactone Biosynthesis in <i>Medicago truncatula</i> and Rice Requires the Symbiotic GRAS-Type Transcription Factors NSP1 and NSP2. <i>Plant Cell</i> , 2011, 23, 3853-3865.	3.1	291
10	LysM-Type Mycorrhizal Receptor Recruited for Rhizobium Symbiosis in Nonlegume <i>Parasponia</i> . <i>Science</i> , 2011, 331, 909-912.	6.0	273
11	Comparative genomics of the nonlegume <i>Parasponia</i> reveals insights into evolution of nitrogen-fixing rhizobium symbioses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4700-E4709.	3.3	253
12	Single Nucleus Genome Sequencing Reveals High Similarity among Nuclei of an Endomycorrhizal Fungus. <i>PLoS Genetics</i> , 2014, 10, e1004078.	1.5	238
13	Evolution of endemism on a young tropical mountain. <i>Nature</i> , 2015, 524, 347-350.	13.7	234
14	Formation of organelle-like N ₂ -fixing symbiosomes in legume root nodules is controlled by DMI2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 10375-10380.	3.3	227
15	<i>Rhizobium</i> Nod Factor Perception and Signalling. <i>Plant Cell</i> , 2002, 14, S239-S249.	3.1	195
16	Integration of the FISH pachytene and genetic maps of <i>Medicago truncatula</i> . <i>Plant Journal</i> , 2001, 27, 49-58.	2.8	186
17	Nod factor signaling genes and their function in the early stages of <i>Rhizobium</i> infection. <i>Current Opinion in Plant Biology</i> , 2005, 8, 346-352.	3.5	182
18	<i>Rhizobium</i> Lipo-chitooligosaccharide Signaling Triggers Accumulation of Cytokinins in <i>Medicago truncatula</i> Roots. <i>Molecular Plant</i> , 2015, 8, 1213-1226.	3.9	146

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19	Red clover (<i>Trifolium pratense</i> L.) draft genome provides a platform for trait improvement. <i>Scientific Reports</i> , 2015, 5, 17394.	1.6	136
20	RDML: structured language and reporting guidelines for real-time quantitative PCR data. <i>Nucleic Acids Research</i> , 2009, 37, 2065-2069.	6.5	123
21	Endomycorrhizae and rhizobial Nod factors both require SYM8 to induce the expression of the early nodulin genes PsENOD5 and PsENOD12A. <i>Plant Journal</i> , 1998, 15, 605-614.	2.8	118
22	The strigolactone biosynthesis gene DWARF27 is co-opted in rhizobium symbiosis. <i>BMC Plant Biology</i> , 2015, 15, 260.	1.6	118
23	A Remote <i>cis</i> -Regulatory Region Is Required for <i>NIN</i> Expression in the Pericycle to Initiate Nodule Primordium Formation in <i>Medicago truncatula</i> . <i>Plant Cell</i> , 2019, 31, 68-83.	3.1	101
24	Lipo-chito-oligosaccharides Modulate Plant Host Immunity to Enable Endosymbioses. <i>Annual Review of Phytopathology</i> , 2015, 53, 311-334.	3.5	98
25	A Phylogenetic Strategy Based on a Legume-Specific Whole Genome Duplication Yields Symbiotic Cytokinin Type-A Response Regulators. <i>Plant Physiology</i> , 2011, 157, 2013-2022.	2.3	91
26	Bacterial-induced calcium oscillations are common to nitrogen-fixing associations of nodulating legumes and non-legumes. <i>New Phytologist</i> , 2015, 207, 551-558.	3.5	89
27	Interaction of <i>Medicago truncatula</i> Lysin Motif Receptor-Like Kinases, NFP and LYK3, Produced in <i>Nicotiana benthamiana</i> Induces Defence-Like Responses. <i>PLoS ONE</i> , 2013, 8, e65055.	1.1	86
28	A Resurrected Scenario: Single Gain and Massive Loss of Nitrogen-Fixing Nodulation. <i>Trends in Plant Science</i> , 2019, 24, 49-57.	4.3	80
29	Evolution of a symbiotic receptor through gene duplications in the legume-rhizobium mutualism. <i>New Phytologist</i> , 2014, 201, 961-972.	3.5	71
30	What Does It Take to Evolve A Nitrogen-Fixing Endosymbiosis?. <i>Trends in Plant Science</i> , 2016, 21, 199-208.	4.3	71
31	Microsynteny between pea and <i>Medicago truncatula</i> in the SYM2 region. <i>Plant Molecular Biology</i> , 2002, 50, 225-235.	2.0	65
32	Exploiting an ancient signalling machinery to enjoy a nitrogen fixing symbiosis. <i>Current Opinion in Plant Biology</i> , 2012, 15, 438-443.	3.5	62
33	Use of the Fluorescent Timer DsRED-E5 as Reporter to Monitor Dynamics of Gene Activity in Plants. <i>Plant Physiology</i> , 2004, 135, 1879-1887.	2.3	58
34	Satellite repeats in the functional centromere and pericentromeric heterochromatin of <i>Medicago truncatula</i> . <i>Chromosoma</i> , 2004, 113, 276-283.	1.0	58
35	Nonlegume <i>Parasponia andersonii</i> Deploys a Broad Rhizobium Host Range Strategy Resulting in Largely Variable Symbiotic Effectiveness. <i>Molecular Plant-Microbe Interactions</i> , 2012, 25, 954-963.	1.4	55
36	Inter- and intracellular colonization of <i>Arabidopsis</i> roots by endophytic actinobacteria and the impact of plant hormones on their antimicrobial activity. <i>Antonie Van Leeuwenhoek</i> , 2018, 111, 679-690.	0.7	54

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37	Synthetic bacterial community derived from a desert rhizosphere confers salt stress resilience to tomato in the presence of a soil microbiome. <i>ISME Journal</i> , 2022, 16, 1907-1920.	4.4	54
38	Parasponia: a novel system for studying mutualism stability. <i>Trends in Plant Science</i> , 2014, 19, 757-763.	4.3	50
39	Modeling a Cortical Auxin Maximum for Nodulation: Different Signatures of Potential Strategies. <i>Frontiers in Plant Science</i> , 2012, 3, 96.	1.7	44
40	A Roadmap toward Engineered Nitrogen-Fixing Nodule Symbiosis. <i>Plant Communications</i> , 2020, 1, 100019.	3.6	44
41	CRISPR/Cas9-Mediated Mutagenesis of Four Putative Symbiosis Genes of the Tropical Tree <i>Parasponia andersonii</i> Reveals Novel Phenotypes. <i>Frontiers in Plant Science</i> , 2018, 9, 284.	1.7	41
42	Evolutionary origin of rhizobium Nod factor signaling. <i>Plant Signaling and Behavior</i> , 2011, 6, 1510-1514.	1.2	36
43	One-Step <i>Agrobacterium</i> Mediated Transformation of Eight Genes Essential for <i>Rhizobium</i> Symbiotic Signaling Using the Novel Binary Vector System pHUGE. <i>PLoS ONE</i> , 2012, 7, e47885.	1.1	35
44	Mutant analysis in the nonlegume <i>Parasponia andersonii</i> identifies NIN and NFA1 transcription factors as a core genetic network in nitrogen-fixing nodule symbioses. <i>New Phytologist</i> , 2020, 226, 541-554.	3.5	32
45	Quantitative modelling of legume root nodule primordium induction by a diffusive signal of epidermal origin that inhibits auxin efflux. <i>BMC Plant Biology</i> , 2016, 16, 254.	1.6	29
46	Restriction of Host Range by the sym2 Allele of Afghan Pea Is Nonspecific for the Type of Modification at the Reducing Terminus of Nodulation Signals. <i>Molecular Plant-Microbe Interactions</i> , 1998, 11, 418-422.	1.4	27
47	Quantitative comparison between the rhizosphere effect of <i>Arabidopsis thaliana</i> and co-occurring plant species with a longer life history. <i>ISME Journal</i> , 2020, 14, 2433-2448.	4.4	27
48	Direct imaging of glycans in <i>Arabidopsis</i> roots via click labeling of metabolically incorporated azido-monosaccharides. <i>BMC Plant Biology</i> , 2016, 16, 220.	1.6	26
49	A genetically and functionally diverse group of non-diazotrophic <i>Bradyrhizobium</i> spp. colonizes the root endophytic compartment of <i>Arabidopsis thaliana</i> . <i>BMC Plant Biology</i> , 2018, 18, 61.	1.6	26
50	Duplication of Symbiotic Lysin Motif Receptors Predates the Evolution of Nitrogen-Fixing Nodule Symbiosis. <i>Plant Physiology</i> , 2020, 184, 1004-1023.	2.3	26
51	A Homeotic Mutation Changes Legume Nodule Ontogeny into Actinorhizal-Type Ontogeny. <i>Plant Cell</i> , 2020, 32, 1868-1885.	3.1	24
52	The Non-Legume <i>Parasponia andersonii</i> Mediates the Fitness of Nitrogen-Fixing Rhizobial Symbionts Under High Nitrogen Conditions. <i>Frontiers in Plant Science</i> , 2019, 10, 1779.	1.7	17
53	Efficiency of <i>Agrobacterium rhizogenes</i> -mediated root transformation of <i>Parasponia</i> and <i>Trema</i> is temperature dependent. <i>Plant Growth Regulation</i> , 2012, 68, 459-465.	1.8	16
54	Draft Genome Sequence of the Nitrogen-Fixing <i>Rhizobium sulae</i> Type Strain IS123T Focusing on the Key Genes for Symbiosis with its Host <i>Hedysarum coronarium</i> L. <i>Frontiers in Microbiology</i> , 2017, 8, 1348.	1.5	15

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55	Soil moisture deficit selects for desiccation tolerant <i>Rhizobium leguminosarum</i> bv. <i>trifolii</i> . <i>Applied Soil Ecology</i> , 2016, 108, 371-380.	2.1	13
56	The Effect of Exogenous Nitrate on LCO Signalling, Cytokinin Accumulation, and Nodule Initiation in <i>Medicago truncatula</i> . <i>Genes</i> , 2021, 12, 988.	1.0	13
57	Plant-driven genome selection of arbuscular mycorrhizal fungi. <i>Molecular Plant Pathology</i> , 2014, 15, 531-534.	2.0	12
58	Transforming, Genome Editing and Phenotyping the Nitrogen-fixing Tropical Cannabaceae Tree <i>Parasponia andersonii</i> . <i>Journal of Visualized Experiments</i> , 2019, .	0.2	11
59	Draft Genome Sequence of the Phosphate-Solubilizing Bacterium <i>Pseudomonas argentinensis</i> Strain SA190 Isolated from the Desert Plant <i>Indigofera argentea</i> . <i>Genome Announcements</i> , 2016, 4, .	0.8	9
60	Specificity in legume nodule symbiosis. <i>Science</i> , 2020, 369, 620-621.	6.0	9
61	High spatial variation in population size and symbiotic performance of <i>Rhizobium leguminosarum</i> bv. <i>trifolii</i> with white clover in New Zealand pasture soils. <i>PLoS ONE</i> , 2018, 13, e0192607.	1.1	9
62	Mycorrhizal Symbiosis: Ancient Signalling Mechanisms Co-opted. <i>Current Biology</i> , 2012, 22, R997-R999.	1.8	8
63	Phylogeographic distribution of rhizobia nodulating common bean (<i>Phaseolus vulgaris</i> L.) in Ethiopia. <i>FEMS Microbiology Ecology</i> , 2021, 97, .	1.3	8
64	Fluorescent In Situ Hybridization (FISH) on Pachytene Chromosomes as a Tool for Genome Characterization. <i>Methods in Molecular Biology</i> , 2013, 1069, 15-24.	0.4	6
65	Transcriptional Regulation of Nutrient Exchange in Arbuscular Mycorrhizal Symbiosis. <i>Molecular Plant</i> , 2018, 11, 1421-1423.	3.9	6
66	Draft Genome Sequence of the Plant Growth-Promoting Rhizobacterium <i>Acinetobacter radioresistens</i> Strain SA188 Isolated from the Desert Plant <i>Indigofera argentea</i> . <i>Genome Announcements</i> , 2017, 5, .	0.8	5
67	Draft Genome Sequence of <i>Ochrobactrum intermedium</i> Strain SA148, a Plant Growth-Promoting Desert Rhizobacterium. <i>Genome Announcements</i> , 2017, 5, .	0.8	5
68	Draft Genome Sequence of <i>Enterobacter</i> sp. Sa187, an Endophytic Bacterium Isolated from the Desert Plant <i>Indigofera argentea</i> . <i>Genome Announcements</i> , 2017, 5, .	0.8	5
69	The <i>Medicago truncatula</i> nodule identity gene MtNROOT1 is required for coordinated apical-basal development of the root. <i>BMC Plant Biology</i> , 2019, 19, 571.	1.6	5
70	GeneNoteBook, a collaborative notebook for comparative genomics. <i>Bioinformatics</i> , 2019, 35, 4779-4781.	1.8	3
71	The BOP-type co-transcriptional regulator NODULE ROOT1 promotes stem secondary growth of the tropical Cannabaceae tree <i>Parasponia andersonii</i> . <i>Plant Journal</i> , 2021, 106, 1366-1386.	2.8	3
72	High Salt Levels Reduced Dissimilarities in Root-Associated Microbiomes of Two Barley Genotypes. <i>Molecular Plant-Microbe Interactions</i> , 2022, 35, 592-603.	1.4	3

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73	Pseudogenization of the rhizobium-responsive EXOPOLYSACCHARIDE RECEPTOR in Parasponia is a rare event in nodulating plants. BMC Plant Biology, 2022, 22, 225.	1.6	3
74	Medicago truncatula Rop GTPases expression in young nodules. Journal of Biological Researches, 2005, 10, 89-92.	0.0	0