Simona Radutoiu

List of Publications by Year
in descending order

38 papers	5,435 citations	218677 26 h-index	330143 37 g-index
41 all docs	41 docs citations	41 times ranked	3285 citing authors

#	Article	IF	Citations
1	The Lotus japonicus NPF3.1 Is a Nodule-Induced Gene That Plays a Positive Role in Nodule Functioning. Frontiers in Plant Science, 2021, 12, 688187.	3.6	5
2	Host preference and invasiveness of commensal bacteria in the Lotus and Arabidopsis root microbiota. Nature Microbiology, 2021, 6, 1150-1162.	13.3	89
3	Understanding Nod factor signalling paves the way for targeted engineering in legumes and non-legumes. Current Opinion in Plant Biology, 2021, 62, 102026.	7.1	15
4	Kinetic proofreading of lipochitooligosaccharides determines signal activation of symbiotic plant receptors. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	23
5	Deciphering Molecular Host-Pathogen Interactions During Ramularia Collo-Cygni Infection on Barley. Frontiers in Plant Science, 2021, 12, 747661.	3.6	4
6	Ligand-recognizing motifs in plant LysM receptors are major determinants of specificity. Science, 2020, 369, 663-670.	12.6	87
7	A combination of chitooligosaccharide and lipochitooligosaccharide recognition promotes arbuscular mycorrhizal associations in Medicago truncatula. Nature Communications, 2019, 10, 5047.	12.8	129
8	Microbial associations enabling nitrogen acquisition in plants. Current Opinion in Microbiology, 2019, 49, 83-89.	5.1	34
9	A <i>Lotus japonicus</i> cytoplasmic kinase connects Nod factor perception by the NFR5 LysM receptor to nodulation. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14339-14348.	7.1	28
10	Characterizing standard genetic parts and establishing common principles for engineering legume and cereal roots. Plant Biotechnology Journal, 2019, 17, 2234-2245.	8.3	28
11	<i>Lotus japonicus</i> Symbiosis Genes Impact Microbial Interactions between Symbionts and Multikingdom Commensal Communities. MBio, 2019, 10, .	4.1	41
12	Dissection of Ramularia Leaf Spot Disease by Integrated Analysis of Barley and Ramularia collo-cygni Transcriptome Responses. Molecular Plant-Microbe Interactions, 2019, 32, 176-193.	2.6	21
13	LYS12 LysM receptor deceleratesPhytophthora palmivoradisease progression inLotus japonicus. Plant Journal, 2018, 93, 297-310.	5.7	26
14	Regulation of Nod factor biosynthesis by alternative NodD proteins at distinct stages of symbiosis provides additional compatibility scrutiny. Environmental Microbiology, 2018, 20, 97-110.	3.8	50
15	A Lotus japonicus E3 ligase interacts with the Nod Factor Receptor 5 and positively regulates nodulation. BMC Plant Biology, 2018, 18, 217.	3.6	9
16	Epidermal LysM receptor ensures robust symbiotic signalling in Lotus japonicus. ELife, 2018, 7, .	6.0	51
17	A plant chitinase controls cortical infection thread progression and nitrogen-fixing symbiosis. ELife, 2018, 7, .	6.0	32
18	Differential regulation of the Epr3 receptor coordinates membrane-restricted rhizobial colonization of root nodule primordia. Nature Communications, 2017, 8, 14534.	12.8	149

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19	<i>N</i>â€glycan maturation mutants in <i>Lotus japonicus</i> for basic and applied glycoprotein research. Plant Journal, 2017, 91, 394-407.	5.7	25
20	Receptor-mediated chitin perception in legume roots is functionally separable from Nod factor perception. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E8118-E8127.	7.1	143
21	Legume LysM receptors mediate symbiotic and pathogenic signalling. Current Opinion in Plant Biology, 2017, 39, 152-158.	7.1	64
22	Root nodule symbiosis in <i>Lotus japonicus</i> drives the establishment of distinctive rhizosphere, root, and nodule bacterial communities. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E7996-E8005.	7.1	258
23	A Legume Genetic Framework Controls Infection of Nodules by Symbiotic and Endophytic Bacteria. PLoS Genetics, 2015, 11, e1005280.	3.5	97
24	Expression of major photosynthetic and saltâ€resistance genes in invasive reed lineages grown under elevated <scp>CO</scp>₂ and temperature. Ecology and Evolution, 2014, 4, 4161-4172.	1.9	10
25	Autophosphorylation is essential for the <i>inâ€ƒvivo</i> function of the <i>Lotus japonicus</i> Nod factor receptorâ€ƒ1 and receptorâ€mediated signalling in cooperation with Nod factor receptorâ€ƒ5. Plant Journal, 2011, 65, 404-417.	5.7	165
26	Improved Characterization of Nod Factors and Genetically Based Variation in LysM Receptor Domains Identify Amino Acids Expendable for Nod Factor Recognition in <i>Lotus</i> spp.. Molecular Plant-Microbe Interactions, 2010, 23, 58-66.	2.6	62
27	Evolution and Regulation of the <i>Lotus japonicus LysM Receptor</i> Gene Family. Molecular Plant-Microbe Interactions, 2010, 23, 510-521.	2.6	117
28	Rearrangement of Actin Cytoskeleton Mediates Invasion of<i>Lotus japonicus</i>Roots by<i>Mesorhizobium loti</i>Â Â. Plant Cell, 2009, 21, 267-284.	6.6	149
29	Nodulation Gene Mutants of <i>Mesorhizobium loti</i> R7Aâ€”<i>nodZ</i> and <i>nolL</i> Mutants Have Host-Specific Phenotypes on <i>Lotus</i> spp.. Molecular Plant-Microbe Interactions, 2009, 22, 1546-1554.	2.6	62
30	The Pea <i>Sym37</i> Receptor Kinase Gene Controls Infection-Thread Initiation and Nodule Development. Molecular Plant-Microbe Interactions, 2008, 21, 1600-1608.	2.6	102
31	A Gain-of-Function Mutation in a Cytokinin Receptor Triggers Spontaneous Root Nodule Organogenesis. Science, 2007, 315, 104-107.	12.6	502
32	LysM domains mediate lipochitinâ€“oligosaccharide recognition and Nfr genes extend the symbiotic host range. EMBO Journal, 2007, 26, 3923-3935.	7.8	346
33	Genetics of Symbiosis in Lotus japonicus: Recombinant Inbred Lines, Comparative Genetic Maps, and Map Position of 35 Symbiotic Loci. Molecular Plant-Microbe Interactions, 2006, 19, 80-91.	2.6	94
34	From The Cover: A nucleoporin is required for induction of Ca2+ spiking in legume nodule development and essential for rhizobial and fungal symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 359-364.	7.1	361
35	LORE1, an active low-copy-number TY3-gypsy retrotransposon family in the model legume Lotus japonicus. Plant Journal, 2005, 44, 372-381.	5.7	56
36	Agrobacterium rhizogenes pRi TL-DNA integration system: a gene vector for Lotus japonicus transformation. , 2005, , 285-287.		8

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37	Plant recognition of symbiotic bacteria requires two LysM receptor-like kinases. Nature, 2003, 425, 585-592.	27.8	1,092
38	A receptor kinase gene of the LysM type is involved in legumeperception of rhizobial signals. Nature, 2003, 425, 637-640.	27.8	896