Richard R BÃ©langer

List of Publications by Year
in descending order

#	Article	IF	Citations
1	New Insights into the Fungal Diversity of Cranberry Fruit Rot in QuÃ©bec Farms Through a Large-Scale Molecular Analysis. Plant Disease, 2022, 106, 215-222.	0.7	4
2	RXLR effector gene <i>Avr3a</i> from <i>Phytophthora sojae</i> is recognized by <i>Rps8</i> in soybean. Molecular Plant Pathology, 2022, 23, 693-706.	2.0	9
3	First Report of Powdery Mildew Caused by <i>Golovinomyces ambrosiae</i> on <i>Cannabis sativa</i> (Marijuana) in Quebec, Canada. Plant Disease, 2022, 106, 2747.	0.7	1
4	Mapping of partial resistance to <i>Phytophthora sojae</i> in soybean PIs using wholeâ€genome sequencing reveals a major QTL. Plant Genome, 2022, 15, e20184.	1.6	11
5	The SoyaGen Project: Putting Genomics to Work for Soybean Breeders. Frontiers in Plant Science, 2022, 13, 887553.	1.7	1
6	Genomic Profiling of Virulence in the Soybean Cyst Nematode Using Single-Nematode Sequencing. Phytopathology, 2021, 111, 137-148.	1.1	20
7	First Report of Godronia cassandrae as a Major Cranberry Fruit Rot Pathogen in Eastern Canada. Plant Disease, 2021, 105, 495-495.	0.7	1
8	Molecular Assessment of Pathotype Diversity of <i>Phytophthora sojae</i> in Canada Highlights Declining Sources of Resistance in Soybean. Plant Disease, 2021, 105, 4006-4013.	0.7	12
9	Lsi2: A black box in plant silicon transport. Plant and Soil, 2021, 466, 1-20.	1.8	22
10	A reassessment of flocculosin-mediated biocontrol activity of Pseudozyma flocculosa through CRISPR/Cas9 gene editing. Fungal Genetics and Biology, 2021, 153, 103573.	0.9	4
11	Integrated QTL mapping, gene expression and nucleotide variation analyses to investigate complex quantitative traits: a case study with the soybeanâ€“<i>Phytophthora sojae</i> interaction. Plant Biotechnology Journal, 2020, 18, 1492-1494.	4.1	18
12	New evidence defining the evolutionary path of aquaporins regulating silicon uptake in land plants. Journal of Experimental Botany, 2020, 71, 6775-6788.	2.4	78
13	Discovery of new group I-D introns leads to creation of subtypes and link to an adaptive response of the mitochondrial genome in fungi. RNA Biology, 2020, 17, 1252-1260.	1.5	14
14	Coinfection of soybean plants with Phytophthora sojae and soybean cyst nematode does not alter the efficacy of resistance genes. Plant Pathology, 2020, 69, 1437-1444.	1.2	3
15	Discriminant haplotypes of avirulence genes of <i>Phytophthora sojae</i> lead to a molecular assay to predict phenotypes. Molecular Plant Pathology, 2020, 21, 318-329.	2.0	12
16	The grapevine NIP2;1 aquaporin is a silicon channel. Journal of Experimental Botany, 2020, 71, 6789-6798.	2.4	24
17	Silicon influences the localization and expression of<i>Phytophthora sojae</i>effectors in interaction with soybean. Journal of Experimental Botany, 2020, 71, 6844-6855.	2.4	11
18	The controversies of silicon's role in plant biology. New Phytologist, 2019, 221, 67-85.	3.5	439

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19	Si permeability of a deficient Lsi1 aquaporin in tobacco can be enhanced through a conserved residue substitution. Plant Direct, 2019, 3, e00163.	0.8	16
20	A Molecular Assay Allows the Simultaneous Detection of 12 Fungi Causing Fruit Rot in Cranberry. Plant Disease, 2019, 103, 2843-2850.	0.7	11
21	Silicon Uptake and Localisation in Date Palm (Phoenix dactylifera) â€“ A Unique Association With Sclerenchyma. Frontiers in Plant Science, 2019, 10, 988.	1.7	37
22	Identification and characterization of aquaporin genes in Arachis duranensis and Arachis ipaensis genomes, the diploid progenitors of peanut. BMC Genomics, 2019, 20, 222.	1.2	31
23	In defence of the selective transport and role of silicon in plants. New Phytologist, 2019, 223, 514-516.	3.5	9
24	A new gold standard approach to characterize the transport of Si across cell membranes in animals. Journal of Cellular Physiology, 2018, 233, 6369-6376.	2.0	5
25	Effectors involved in fungalâ€“fungal interaction lead to a rare phenomenon of hyperbiotrophy in the tritrophic system biocontrol agentâ€“powdery mildewâ€“plant. New Phytologist, 2018, 217, 713-725.	3.5	47
26	Stable predictive markers for Phytophthora sojae avirulence genes that impair infection of soybean uncovered by whole genome sequencing of 31 isolates. BMC Biology, 2018, 16, 80.	1.7	40
27	Silicon protects soybean plants against Phytophthora sojae by interfering with effector-receptor expression. BMC Plant Biology, 2018, 18, 97.	1.6	80
28	Genome-wide identification, characterization, and expression profile of aquaporin gene family in flax (Linum usitatissimum). Scientific Reports, 2017, 7, 46137.	1.6	82
29	Identification of a mammalian silicon transporter. American Journal of Physiology - Cell Physiology, 2017, 312, C550-C561.	2.1	45
30	Analysis of aquaporins in Brassicaceae species reveals high-level of conservation and dynamic role against biotic and abiotic stress in canola. Scientific Reports, 2017, 7, 2771.	1.6	84
31	Silicon Transporters and Effects of Silicon Amendments in Strawberry under High Tunnel and Field Conditions. Frontiers in Plant Science, 2017, 8, 949.	1.7	64
32	Understanding Aquaporin Transport System in Eelgrass (Zostera marina L.), an Aquatic Plant Species. Frontiers in Plant Science, 2017, 8, 1334.	1.7	23
33	Editorial: Aquaporins: Dynamic Role and Regulation. Frontiers in Plant Science, 2017, 8, 1420.	1.7	28
34	Editorial: Role of Silicon in Plants. Frontiers in Plant Science, 2017, 8, 1858.	1.7	74
35	Computational Prediction of Effector Proteins in Fungi: Opportunities and Challenges. Frontiers in Plant Science, 2016, 7, 126.	1.7	118
36	Comparative Transcriptomic Analysis of Virulence Factors in Leptosphaeria maculans during Compatible and Incompatible Interactions with Canola. Frontiers in Plant Science, 2016, 7, 1784.	1.7	60

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37	Plant Aquaporins: Genome-Wide Identification, Transcriptomics, Proteomics, and Advanced Analytical Tools. Frontiers in Plant Science, 2016, 7, 1896.	1.7	76
38	Identification and characterization of silicon efflux transporters in horsetail (Equisetum arvense). Journal of Plant Physiology, 2016, 200, 82-89.	1.6	73
39	Molecular evolution of aquaporins and silicon influx in plants. Functional Ecology, 2016, 30, 1277-1285.	1.7	149
40	A precise spacing between the <scp>NPA</scp> domains of aquaporins is essential for silicon permeability in plants. Plant Journal, 2015, 83, 489-500.	2.8	191
41	Aquaporins Mediate Silicon Transport in Humans. PLoS ONE, 2015, 10, e0136149.	1.1	45
42	Silicon in Agriculture. , 2015, , .		236
43	Effect of Silicon on Crop Growth, Yield and Quality. , 2015, , 209-223.		24
44	Silicon Uptake and Transport in Plants: Physiological and Molecular Aspects. , 2015, , 69-82.		5
45	History and Introduction of Silicon Research. , 2015, , 1-18.		7
46	Silicon and Plantâ€"Pathogen Interactions. , 2015, , 181-196.		2
47	Siliconâ€mediated resistance of <scp>A</scp>rabidopsis against powdery mildew involves mechanisms other than the salicylic acid (<scp>SA</scp>)â€dependent defence pathway. Molecular Plant Pathology, 2015, 16, 572-582.	2.0	135
48	Identification and Detection of <i>Fusarium striatum</i> as a New Record of Pathogen to Greenhouse Tomato in Northeastern America. Plant Disease, 2014, 98, 292-298.	0.7	13
49	A Zoospore Inoculation Method with <i>Phytophthora sojae</i> to Assess the Prophylactic Role of Silicon on Soybean Cultivars. Plant Disease, 2014, 98, 1632-1638.	0.7	24
50	Identification and functional characterization of silicon transporters in soybean using comparative genomics of major intrinsic proteins in Arabidopsis and rice. Plant Molecular Biology, 2013, 83, 303-315.	2.0	233
51	The Transition from a Phytopathogenic Smut Ancestor to an Anamorphic Biocontrol Agent Deciphered by Comparative Whole-Genome Analysis. Plant Cell, 2013, 25, 1946-1959.	3.1	59
52	Effect of Silicon Absorption on Soybean Resistance to <i>Phakopsora pachyrhizi</i> in Different Cultivars. Plant Disease, 2012, 96, 37-42.	0.7	54
53	Mode of action of biocontrol agents: all that glitters is not gold. Canadian Journal of Plant Pathology, 2012, 34, 469-478.	0.8	26
54	Discovery of a multigene family of aquaporin silicon transporters in the primitive plant <i>Equisetum arvense</i>. Plant Journal, 2012, 72, 320-330.	2.8	111

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55	Cloning, functional characterization and heterologous expression of TaLsi1, a wheat silicon transporter gene. Plant Molecular Biology, 2012, 79, 35-46.	2.0	182
56	Beta Hydroxylation of Glycolipids from Ustilago maydis and Pseudozyma flocculosa by an NADPH-Dependent Î²-Hydroxylase. Applied and Environmental Microbiology, 2011, 77, 7823-7829.	1.4	18
57	Identification of a biosynthesis gene cluster for flocculosin a cellobiose lipid produced by the biocontrol agent <i>Pseudozyma flocculosa</i>. Molecular Microbiology, 2011, 79, 1483-1495.	1.2	46
58	Ecological Basis of the Interaction between <i>Pseudozyma flocculosa</i> and Powdery Mildew Fungi. Applied and Environmental Microbiology, 2011, 77, 926-933.	1.4	24
59	Catabolism of flocculosin, an antimicrobial metabolite produced by Pseudozyma flocculosa. Glycobiology, 2009, 19, 995-1001.	1.3	30
60	Aconitate and methyl aconitate are modulated by silicon in powdery mildew-infected wheat plants. Journal of Plant Physiology, 2009, 166, 1413-1422.	1.6	44
61	Nutritional regulation and kinetics of flocculosin synthesis by Pseudozyma flocculosa. Applied Microbiology and Biotechnology, 2008, 80, 307-15.	1.7	21
62	GFP technology for the study of biocontrol agents in tritrophic interactions: A case study with Pseudozyma flocculosa. Journal of Microbiological Methods, 2007, 68, 275-281.	0.7	22
63	The protective role of silicon in the Arabidopsis-powdery mildew pathosystem. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 17554-17559.	3.3	303
64	Silicon and plant disease resistance against pathogenic fungi. FEMS Microbiology Letters, 2005, 249, 1-6.	0.7	528
65	Antifungal Activity of Flocculosin, a Novel Glycolipid Isolated from Pseudozyma flocculosa. Antimicrobial Agents and Chemotherapy, 2005, 49, 1597-1599.	1.4	87
66	Silicon induces antifungal compounds in powdery mildew-infected wheat. Physiological and Molecular Plant Pathology, 2005, 66, 108-115.	1.3	172
67	Silicon Enhances the Accumulation of Diterpenoid Phytoalexins in Rice: A Potential Mechanism for Blast Resistance. Phytopathology, 2004, 94, 177-183.	1.1	264
68	Powdery mildew of Arabidopsis thaliana: a pathosystem for exploring the role of silicon in plantâ€"microbe interactions. Physiological and Molecular Plant Pathology, 2004, 64, 189-199.	1.3	79
69	Insertional Mutagenesis of a Fungal Biocontrol Agent Led to Discovery of a Rare Cellobiose Lipid with Antifungal Activity. Applied and Environmental Microbiology, 2003, 69, 2595-2602.	1.4	64
70	Ultrastructural and Cytochemical Aspects of Silicon-Mediated Rice Blast Resistance. Phytopathology, 2003, 93, 535-546.	1.1	191
71	BIOLOGICALCONTROL INGREENHOUSESYSTEMS. Annual Review of Phytopathology, 2001, 39, 103-133.	3.5	493
72	Chapter 9 Silicon and disease resistance in dicotyledons. Studies in Plant Science, 2001, , 159-169.	0.5	77

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73	Approaches to molecular characterization of fungal biocontrol agents: some case studies. Canadian Journal of Plant Pathology, 2001, 23, 8-12.	0.8	32
74	Induction of systemic resistance toPythiumdampingâ€off in cucumber plants by benzothiadiazole: ultrastructure and cytochemistry of the host response. Plant Journal, 1998, 14, 13-21.	2.8	104
75	Methyl Ester of p-Coumaric Acid: A Phytoalexin-Like Compound from Long English Cucumber Leaves. Journal of Chemical Ecology, 1997, 23, 1517-1526.	0.9	102
76	Soluble Silicon: Its Role in Crop and Disease Management of Greenhouse Crops. Plant Disease, 1995, 79, 329.	0.7	177
77	Studies of silicon distribution in wounded and Pythium ultimum infected cucumber plants. Physiological and Molecular Plant Pathology, 1992, 41, 371-385.	1.3	70