

Steven J Klosterman

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85
papers

3,159
citations

23
h-index

55
g-index

95
ext. papers

4,277
ext. citations

5.2
avg, IF

4.86
L-index

#	Paper	IF	Citations
85	Insights from the genome of the biotrophic fungal plant pathogen <i>Ustilago maydis</i> . <i>Nature</i> , 2006 , 444, 97-101	50.4	867
84	Diversity, pathogenicity, and management of verticillium species. <i>Annual Review of Phytopathology</i> , 2009 , 47, 39-62	10.8	428
83	Comparative genomics yields insights into niche adaptation of plant vascular wilt pathogens. <i>PLoS Pathogens</i> , 2011 , 7, e1002137	7.6	335
82	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 May 2009-31 July 2009. <i>Molecular Ecology Resources</i> , 2009 , 9, 1460-6	8.4	122
81	Population analyses of the vascular plant pathogen <i>Verticillium dahliae</i> detect recombination and transcontinental gene flow. <i>Fungal Genetics and Biology</i> , 2010 , 47, 416-22	3.9	76
80	One step construction of <i>Agrobacterium</i> -Recombination-ready-plasmids (OSCAR), an efficient and robust tool for ATMT based gene deletion construction in fungi. <i>Fungal Genetics and Biology</i> , 2011 , 48, 677-84	3.9	67
79	Genomics spurs rapid advances in our understanding of the biology of vascular wilt pathogens in the genus <i>Verticillium</i> . <i>Annual Review of Phytopathology</i> , 2015 , 53, 181-98	10.8	65
78	RNA-seq analyses of gene expression in the microsclerotia of <i>Verticillium dahliae</i> . <i>BMC Genomics</i> , 2013 , 14, 607	4.5	55
77	Identification of pathogenicity-related genes in the vascular wilt fungus <i>Verticillium dahliae</i> by <i>Agrobacterium tumefaciens</i> -mediated T-DNA insertional mutagenesis. <i>Molecular Biotechnology</i> , 2011 , 49, 209-21	3	52
76	Transposable elements in phytopathogenic <i>Verticillium</i> spp.: insights into genome evolution and inter- and intra-specific diversification. <i>BMC Genomics</i> , 2012 , 13, 314	4.5	51
75	Genetics of morphogenesis and pathogenic development of <i>Ustilago maydis</i> . <i>Advances in Genetics</i> , 2007 , 57, 1-47	3.3	49
74	Deep mRNA sequencing reveals stage-specific transcriptome alterations during microsclerotia development in the smoke tree vascular wilt pathogen, <i>Verticillium dahliae</i> . <i>BMC Genomics</i> , 2014 , 15, 324	4.5	46
73	Coupling Spore Traps and Quantitative PCR Assays for Detection of the Downy Mildew Pathogens of Spinach (<i>Peronospora effusa</i>) and Beet (<i>P. schachtii</i>). <i>Phytopathology</i> , 2014 , 104, 1349-59	3.8	42
72	A comparison of the effects of DNA-damaging agents and biotic elicitors on the induction of plant defense genes, nuclear distortion, and cell death. <i>Plant Physiology</i> , 2001 , 125, 752-62	6.6	42
71	Multi-locus tree and species tree approaches toward resolving a complex clade of downy mildews (<i>Straminipila</i> , Oomycota), including pathogens of beet and spinach. <i>Molecular Phylogenetics and Evolution</i> , 2015 , 86, 24-34	4.1	41
70	The mitogen-activated protein kinase gene, <i>VdHog1</i> , regulates osmotic stress response, microsclerotia formation and virulence in <i>Verticillium dahliae</i> . <i>Fungal Genetics and Biology</i> , 2016 , 88, 13-23	3.9	41
69	A real-time PCR assay for detection and quantification of <i>Verticillium dahliae</i> in spinach seed. <i>Phytopathology</i> , 2012 , 102, 443-51	3.8	40

68	Molecular variation among isolates of <i>Verticillium dahliae</i> and polymerase chain reaction-based differentiation of races. <i>Phytopathology</i> , 2010 , 100, 1222-30	3.8	39
67	Plant HMG proteins bearing the AT-hook motif. <i>Plant Science</i> , 2002 , 162, 855-866	5.3	28
66	Detection and Quantification of <i>Bremia lactucae</i> by Spore Trapping and Quantitative PCR. <i>Phytopathology</i> , 2016 , 106, 1426-1437	3.8	26
65	Transcription factor VdCmr1 is required for pigment production, protection from UV irradiation, and regulates expression of melanin biosynthetic genes in <i>Verticillium dahliae</i> . <i>Microbiology (United Kingdom)</i> , 2018 , 164, 685-696	2.9	26
64	Vayg1 is required for microsclerotium formation and melanin production in <i>Verticillium dahliae</i> . <i>Fungal Genetics and Biology</i> , 2017 , 98, 1-11	3.9	25
63	Characterization of a 20 kDa DNase elicitor from <i>Fusarium solani</i> f. sp. <i>phaseoli</i> and its expression at the onset of induced resistance in <i>Pisum sativum</i> . <i>Molecular Plant Pathology</i> , 2001 , 2, 147-58	5.7	24
62	Colonization of spinach by <i>Verticillium dahliae</i> and effects of pathogen localization on the efficacy of seed treatments. <i>Phytopathology</i> , 2013 , 103, 268-80	3.8	23
61	Ubc2, an ortholog of the yeast Ste50p adaptor, possesses a basidiomycete-specific carboxy terminal extension essential for pathogenicity independent of pheromone response. <i>Molecular Plant-Microbe Interactions</i> , 2008 , 21, 110-21	3.6	22
60	Population genomics demystifies the defoliation phenotype in the plant pathogen <i>Verticillium dahliae</i> . <i>New Phytologist</i> , 2019 , 222, 1012-1029	9.8	21
59	Comparative genomics of downy mildews reveals potential adaptations to biotrophy. <i>BMC Genomics</i> , 2018 , 19, 851	4.5	21
58	The <i>Gossypium hirsutum</i> TIR-NBS-LRR gene GhDSC1 mediates resistance against <i>Verticillium</i> wilt. <i>Molecular Plant Pathology</i> , 2019 , 20, 857-876	5.7	20
57	Characterization of two homeodomain transcription factors with critical but distinct roles in virulence in the vascular pathogen <i>Verticillium dahliae</i> . <i>Molecular Plant Pathology</i> , 2018 , 19, 986-1004	5.7	20
56	The endochitinase VDECH from <i>Verticillium dahliae</i> inhibits spore germination and activates plant defense responses. <i>Plant Science</i> , 2017 , 259, 12-23	5.3	18
55	Frequency of <i>Verticillium</i> Species in Commercial Spinach Fields and Transmission of <i>V. dahliae</i> from Spinach to Subsequent Lettuce Crops. <i>Phytopathology</i> , 2015 , 105, 80-90	3.8	18
54	Analysis of pea HMG-I/Y expression suggests a role in defence gene regulation. <i>Molecular Plant Pathology</i> , 2003 , 4, 249-58	5.7	17
53	Genome-Wide Identification and Functional Analyses of the CRK Gene Family in Cotton Reveals Confers <i>Verticillium</i> Wilt Resistance in. <i>Frontiers in Plant Science</i> , 2018 , 9, 1266	6.2	17
52	Proteome and metabolome analyses reveal differential responses in tomato - <i>Verticillium dahliae</i> -interactions. <i>Journal of Proteomics</i> , 2019 , 207, 103449	3.9	16
51	The Transcription Factor VdHapX Controls Iron Homeostasis and Is Crucial for Virulence in the Vascular Pathogen <i>Verticillium dahliae</i> . <i>MSphere</i> , 2018 , 3,	5	16

50	SSH reveals a linkage between a senescence-associated protease and Verticillium wilt symptom development in lettuce (<i>Lactuca sativa</i>). <i>Physiological and Molecular Plant Pathology</i> , 2011 , 76, 48-58	2.6	15
49	Analysis of <i>Verticillium dahliae</i> Suggests a Lack of Correlation Between Genotypic Diversity and Virulence Phenotypes. <i>Plant Disease</i> , 2011 , 95, 1224-1232	1.5	15
48	Spinach Downy Mildew: Advances in Our Understanding of the Disease Cycle and Prospects for Disease Management. <i>Plant Disease</i> , 2019 , 103, 791-803	1.5	15
47	Plasmolysis and Vital Staining Reveal Viable Oospores of <i>Peronospora effusa</i> in Spinach Seed Lots. <i>Plant Disease</i> , 2016 , 100, 59-65	1.5	14
46	The <i>Verticillium dahliae</i> Sho1-MAPK pathway regulates melanin biosynthesis and is required for cotton infection. <i>Environmental Microbiology</i> , 2019 , 21, 4852-4874	5.2	13
45	Season-Long Dynamics of Spinach Downy Mildew Determined by Spore Trapping and Disease Incidence. <i>Phytopathology</i> , 2016 , 106, 1311-1318	3.8	13
44	Hormone Signaling and Its Interplay With Development and Defense Responses in -Plant Interactions. <i>Frontiers in Plant Science</i> , 2020 , 11, 584997	6.2	12
43	Functional analyses of small secreted cysteine-rich proteins identified candidate effectors in <i>Verticillium dahliae</i> . <i>Molecular Plant Pathology</i> , 2020 , 21, 667-685	5.7	12
42	SNARE-Encoding Genes VdSec22 and VdSso1 Mediate Protein Secretion Required for Full Virulence in <i>Verticillium dahliae</i> . <i>Molecular Plant-Microbe Interactions</i> , 2018 , 31, 651-664	3.6	12
41	Heterologous Expression of the Cotton NBS-LRR Gene Enhances <i>Verticillium</i> Wilt Resistance in. <i>Frontiers in Plant Science</i> , 2018 , 9, 119	6.2	12
40	Selection for Resistance to <i>Verticillium</i> Wilt Caused by Race 2 Isolates of <i>Verticillium dahliae</i> in Accessions of Lettuce (<i>Lactuca sativa</i> L.). <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2011 , 46, 201-206	2.4	12
39	The Regulates Dark-Induced Senescence and Plays Contrasting Roles in Defense Against Bacterial and Fungal Pathogens. <i>Molecular Plant-Microbe Interactions</i> , 2020 , 33, 754-766	3.6	11
38	The bZIP transcription factor VdAtf1 regulates virulence by mediating nitrogen metabolism in <i>Verticillium dahliae</i> . <i>New Phytologist</i> , 2020 , 226, 1461-1479	9.8	11
37	Two <i>Verticillium dahliae</i> MAPKKs, VdSsk2 and VdSte11, Have Distinct Roles in Pathogenicity, Microsclerotial Formation, and Stress Adaptation. <i>MSphere</i> , 2019 , 4,	5	11
36	Iceberg Lettuce Breeding Lines with Resistance to <i>Verticillium</i> Wilt Caused by Race 1 Isolates of <i>Verticillium dahliae</i> . <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2011 , 46, 501-504	2.4	11
35	Focus Issue Articles on Emerging and Re-Emerging Plant Diseases. <i>Phytopathology</i> , 2015 , 105, 852-854	3.8	10
34	Real-time PCR for the quantification of fungi in planta. <i>Methods in Molecular Biology</i> , 2012 , 835, 121-32	1.4	10
33	A Soilless <i>Verticillium</i> Wilt Assay Using an Early Flowering Lettuce Line. <i>Plant Disease</i> , 2009 , 93, 691-698	1.5	10

32	Measurements of Aerial Spore Load by qPCR Facilitates Lettuce Downy Mildew Risk Advisement. <i>Plant Disease</i> , 2020 , 104, 82-93	1.5	10
31	A Framework for Optimizing Phytosanitary Thresholds in Seed Systems. <i>Phytopathology</i> , 2017 , 107, 1219-1228	3.228	9
30	Disease Management in the Genomics Era-Summaries of Focus Issue Papers. <i>Phytopathology</i> , 2016 , 106, 1068-1070	3.8	9
29	VdCYC8, Encoding CYC8 Glucose Repression Mediator Protein, Is Required for Microsclerotia Formation and Full Virulence in <i>Verticillium dahliae</i> . <i>PLoS ONE</i> , 2015 , 10, e0144020	3.7	9
28	Genomewide Transcriptome Profiles Reveal How Lipopeptides Inhibit Microsclerotia Formation in. <i>Molecular Plant-Microbe Interactions</i> , 2019 , 32, 622-634	3.6	9
27	Transcriptional analyses of differential cultivars during resistant and susceptible interactions with <i>Peronospora effusa</i> , the causal agent of spinach downy mildew. <i>Scientific Reports</i> , 2020 , 10, 6719	4.9	8
26	A Single-Nucleotide Mutation in a GLUTAMATE RECEPTOR-LIKE Gene Confers Resistance to Fusarium Wilt in. <i>Advanced Science</i> , 2021 , 8, 2002723	13.6	8
25	Detection of Latent <i>Peronospora effusa</i> Infections in Spinach. <i>Plant Disease</i> , 2018 , 102, 1766-1771	1.5	6
24	GhMYB4 downregulates lignin biosynthesis and enhances cotton resistance to <i>Verticillium dahliae</i> . <i>Plant Cell Reports</i> , 2021 , 40, 735-751	5.1	6
23	Spatiotemporal Patterns in the Airborne Dispersal of Spinach Downy Mildew. <i>Phytopathology</i> , 2017 , 107, 50-58	3.8	5
22	Arabidopsis defense mutant ndr1-1 displays accelerated development and early flowering mediated by the hormone gibberellic acid. <i>Plant Science</i> , 2019 , 285, 200-213	5.3	5
21	Convergent and distinctive functions of transcription factors VdYap1, VdAtf1, and VdSkn7 in the regulation of nitrosative stress resistance, microsclerotia formation, and virulence in <i>Verticillium dahliae</i> . <i>Molecular Plant Pathology</i> , 2020 , 21, 1451-1466	5.7	5
20	Insights into VdCmr1-mediated protection against high temperature stress and UV irradiation in <i>Verticillium dahliae</i> . <i>Environmental Microbiology</i> , 2019 , 21, 2977-2996	5.2	4
19	Genetics of Morphogenesis in Basidiomycetes. <i>Applied Mycology and Biotechnology</i> , 2005 , 353-422		4
18	Detached leaf inoculation assay for evaluating resistance to the spinach downy mildew pathogen. <i>European Journal of Plant Pathology</i> , 2020 , 158, 511-520	2.1	4
17	Genome Sequence of Race 1 Isolate VdLs.16 From Lettuce. <i>Molecular Plant-Microbe Interactions</i> , 2020 , 33, 1265-1269	3.6	3
16	Sporangiospore Viability and Oospore Production in the Spinach Downy Mildew Pathogen,. <i>Plant Disease</i> , 2020 , 104, 2634-2641	1.5	3
15	Key Insights and Research Prospects at the Dawn of the Population Genomics Era For. <i>Annual Review of Phytopathology</i> , 2021 , 59, 31-51	10.8	3

14	Characterization of Spinach Germplasm for Resistance Against Two Races of <i>Verticillium dahliae</i> . <i>Hortscience: A Publication of the American Society for Horticultural Science</i> , 2015 , 50, 1631-1635	2.4	2
13	Cytotoxic function of xylanase VdXyn4 in the plant vascular wilt pathogen <i>Verticillium dahliae</i> . <i>Plant Physiology</i> , 2021 , 187, 409-429	6.6	2
12	Genome Sequences of Defoliating Strain XJ592 and Nondefoliating Strain XJ511. <i>Molecular Plant-Microbe Interactions</i> , 2020 , 33, 565-568	3.6	1
11	Genome Sequence Data of and Idiomorphs from. <i>Phytopathology</i> , 2021 , PHYTO01210012A	3.8	1
10	Transcriptome Variations in in Response to Two Different Inorganic Nitrogen Sources. <i>Frontiers in Microbiology</i> , 2021 , 12, 712701	5.7	1
9	Biological Characteristics of and Strains. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	1
8	<i>Verticillium dahliae</i> CFEM proteins manipulate host immunity and differentially contribute to virulence.. <i>BMC Biology</i> , 2022 , 20, 55	7.3	1
7	Identification of long non-coding RNAs in <i>Verticillium dahliae</i> following inoculation of cotton.. <i>Microbiological Research</i> , 2022 , 257, 126962	5.3	0
6	The Spt-Ada-Gcn5 Acetyltransferase Complex Subunit Ada1 Is Essential for <i>Conidia</i> and <i>Microsclerotia</i> Production and Contributes to Virulence.. <i>Frontiers in Microbiology</i> , 2022 , 13, 852571	5.7	0
5	Functional Genomics and Comparative Lineage-Specific Region Analyses Reveal Novel Insights into Race Divergence in <i>Verticillium dahliae</i> .. <i>Microbiology Spectrum</i> , 2021 , 9, e0111821	8.9	0
4	The bZip Transcription Factor VdMRTF1 is a Negative Regulator of Melanin Biosynthesis and Virulence in <i>Verticillium dahliae</i> .. <i>Microbiology Spectrum</i> , 2022 , e0258121	8.9	0
3	Dynamics of <i>Verticillium dahliae</i> race 1 population under managed agricultural ecosystems. <i>BMC Biology</i> , 2021 , 19, 131	7.3	
2	Welcoming PhytoFrontiers into Our APS Family of Journals. <i>PhytoFrontiers</i> , 2021 , 1, 2-3		
1	The <i>Ustilago Maydis</i> Maize Interaction 2018 , 166-201		