

Steven J Klosterman

List of Publications by Year in descending order

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92
papers

4,844
citations

147801

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102487

66
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95
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95
docs citations

95
times ranked

4208
citing authors

#	ARTICLE	IF	CITATIONS
1	Attenuation of ethylene signaling increases cotton resistance to a defoliating strain of <i>Verticillium dahliae</i> . <i>Crop Journal</i> , 2023, 11, 89-98.	5.2	5
2	Crustacean Meal Elicits Expression of Growth and Defense-Related Genes in Roots of Lettuce and Tomato. <i>PhytoFrontiers</i> , 2022, 2, 10-20.	1.6	2
3	Composition of the Microbiomes from Spinach Seeds Infested or Noninfested with <i>Peronospora effusa</i> or <i>Verticillium dahliae</i> . <i>Phytobiomes Journal</i> , 2022, 6, 169-180.	2.7	0
4	miR398b negatively regulates cotton immune responses to <i>Verticillium dahliae</i> via multiple targets. <i>Crop Journal</i> , 2022, 10, 1026-1036.	5.2	6
5	Identification of long non-coding RNAs in <i>Verticillium dahliae</i> following inoculation of cotton. <i>Microbiological Research</i> , 2022, 257, 126962.	5.3	4
6	The <i>Verticillium dahliae</i> Spt-Ada-Gcn5 Acetyltransferase Complex Subunit Ada1 Is Essential for Conidia and Microsclerotia Production and Contributes to Virulence. <i>Frontiers in Microbiology</i> , 2022, 13, 852571.	3.5	5
7	<i>Verticillium dahliae</i> CFEM proteins manipulate host immunity and differentially contribute to virulence. <i>BMC Biology</i> , 2022, 20, 55.	3.8	19
8	A secreted ribonuclease effector from <i>Verticillium dahliae</i> localizes in the plant nucleus to modulate host immunity. <i>Molecular Plant Pathology</i> , 2022, 23, 1122-1140.	4.2	15
9	The bZip Transcription Factor VdMRTF1 is a Negative Regulator of Melanin Biosynthesis and Virulence in <i>Verticillium dahliae</i> . <i>Microbiology Spectrum</i> , 2022, 10, e0258121.	3.0	8
10	The secretome of <i>Verticillium dahliae</i> in collusion with plant defence responses modulates <i>Verticillium</i> wilt symptoms. <i>Biological Reviews</i> , 2022, 97, 1810-1822.	10.4	15
11	A polyketide synthase from <i>Verticillium dahliae</i> modulates melanin biosynthesis and hyphal growth to promote virulence. <i>BMC Biology</i> , 2022, 20, .	3.8	11
12	Welcoming <i>PhytoFrontiers</i> into Our APS Family of Journals. <i>PhytoFrontiers</i> , 2021, 1, 2-3.	1.6	0
13	GhMYB4 downregulates lignin biosynthesis and enhances cotton resistance to <i>Verticillium dahliae</i> . <i>Plant Cell Reports</i> , 2021, 40, 735-751.	5.6	31
14	A Single Nucleotide Mutation in a GLUTAMATE RECEPTOR-LIKE Gene Confers Resistance to Fusarium Wilt in <i>Gossypium hirsutum</i> . <i>Advanced Science</i> , 2021, 8, 2002723.	11.2	37
15	Genome Sequence Data of MAT1-1 and MAT1-2 Idiomorphs from <i>Verticillium dahliae</i> . <i>Phytopathology</i> , 2021, , PHYTO01210012A.	2.2	1
16	<i>Verticillium klebahnii</i> and <i>V. isaacii</i> Isolates Exhibit Host-Dependent Biological Control of <i>Verticillium</i> Wilt Caused by <i>V. dahliae</i> . <i>PhytoFrontiers</i> , 2021, 1, 276-290.	1.6	9
17	Cytotoxic function of xylanase VdXyn4 in the plant vascular wilt pathogen <i>Verticillium dahliae</i> . <i>Plant Physiology</i> , 2021, 187, 409-429.	4.8	27
18	Dynamics of <i>Verticillium dahliae</i> race 1 population under managed agricultural ecosystems. <i>BMC Biology</i> , 2021, 19, 131.	3.8	1

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19	Transcriptome Variations in <i>Verticillium dahliae</i> in Response to Two Different Inorganic Nitrogen Sources. <i>Frontiers in Microbiology</i> , 2021, 12, 712701.	3.5	1
20	Biological Characteristics of <i>Verticillium dahliae</i> MAT1-1 and MAT1-2 Strains. <i>International Journal of Molecular Sciences</i> , 2021, 22, 7148.	4.1	2
21	Key Insights and Research Prospects at the Dawn of the Population Genomics Era for <i>Verticillium dahliae</i> . <i>Annual Review of Phytopathology</i> , 2021, 59, 31-51.	7.8	16
22	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.	3.0	7
23	Measurements of Aerial Spore Load by qPCR Facilitates Lettuce Downy Mildew Risk Advisement. <i>Plant Disease</i> , 2020, 104, 82-93.	1.4	23
24	Genome Sequence of <i>Verticillium dahliae</i> Race 1 Isolate VdLs.16 From Lettuce. <i>Molecular Plant-Microbe Interactions</i> , 2020, 33, 1265-1269.	2.6	4
25	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.	4.2	15
26	Detached leaf inoculation assay for evaluating resistance to the spinach downy mildew pathogen. <i>European Journal of Plant Pathology</i> , 2020, 158, 511-520.	1.7	13
27	Sporangiospore Viability and Oospore Production in the Spinach Downy Mildew Pathogen, <i>Peronospora effusa</i> . <i>Plant Disease</i> , 2020, 104, 2634-2641.	1.4	16
28	Hormone Signaling and Its Interplay With Development and Defense Responses in <i>Verticillium</i> -Plant Interactions. <i>Frontiers in Plant Science</i> , 2020, 11, 584997.	3.6	27
29	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.	4.2	46
30	The Arabidopsis SENESCENCE-ASSOCIATED GENE 13 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.	2.6	26
31	The bZIP transcription factor VdAtf1 regulates virulence by mediating nitrogen metabolism in <i>Verticillium dahliae</i> . <i>New Phytologist</i> , 2020, 226, 1461-1479.	7.3	41
32	Genome Sequences of <i>Verticillium dahliae</i> Defoliating Strain XJ592 and Nondefoliating Strain XJ511. <i>Molecular Plant-Microbe Interactions</i> , 2020, 33, 565-568.	2.6	5
33	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.	3.3	22
34	Two <i>Verticillium dahliae</i> MAPKKs, VdSsk2 and VdSte11, Have Distinct Roles in Pathogenicity, Microsclerotial Formation, and Stress Adaptation. <i>MSphere</i> , 2019, 4, .	2.9	31
35	Proteome and metabolome analyses reveal differential responses in tomato - <i>Verticillium dahliae</i> -interactions. <i>Journal of Proteomics</i> , 2019, 207, 103449.	2.4	51
36	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.	3.8	36

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37	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.	3.8	12
38	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.	3.6	9
39	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.	4.2	46
40	Spinach Downy Mildew: Advances in Our Understanding of the Disease Cycle and Prospects for Disease Management. <i>Plant Disease</i> , 2019, 103, 791-803.	1.4	38
41	Population genomics demystifies the defoliation phenotype in the plant pathogen <i>Verticillium dahliae</i> . <i>New Phytologist</i> , 2019, 222, 1012-1029.	7.3	41
42	Genomewide Transcriptome Profiles Reveal How <i>Bacillus subtilis</i> Lipopeptides Inhibit Microsclerotia Formation in <i>Verticillium dahliae</i> . <i>Molecular Plant-Microbe Interactions</i> , 2019, 32, 622-634.	2.6	19
43	Detection of Latent <i>Peronospora effusa</i> Infections in Spinach. <i>Plant Disease</i> , 2018, 102, 1766-1771.	1.4	12
44	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.	2.6	39
45	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.	4.2	39
46	Comparative genomics of downy mildews reveals potential adaptations to biotrophy. <i>BMC Genomics</i> , 2018, 19, 851.	2.8	59
47	Genome-Wide Identification and Functional Analyses of the CRK Gene Family in Cotton Reveals GbCRK18 Confers <i>Verticillium</i> Wilt Resistance in <i>Gossypium barbadense</i> . <i>Frontiers in Plant Science</i> , 2018, 9, 1266.	3.6	30
48	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, .	2.9	28
49	Heterologous Expression of the Cotton NBS-LRR Gene GbANA1 Enhances <i>Verticillium</i> Wilt Resistance in <i>Arabidopsis</i> . <i>Frontiers in Plant Science</i> , 2018, 9, 119.	3.6	36
50	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> , 2017, 157, 1051-1061.	1.9	510
51	Spatiotemporal Patterns in the Airborne Dispersal of Spinach Downy Mildew. <i>Phytopathology</i> , 2017, 107, 50-58.	2.2	10
52	The endochitinase VDECH from <i>Verticillium dahliae</i> inhibits spore germination and activates plant defense responses. <i>Plant Science</i> , 2017, 259, 12-23.	3.6	31
53	A Framework for Optimizing Phytosanitary Thresholds in Seed Systems. <i>Phytopathology</i> , 2017, 107, 1219-1228.	2.2	18
54	Vayg1 is required for microsclerotium formation and melanin production in <i>Verticillium dahliae</i> . <i>Fungal Genetics and Biology</i> , 2017, 98, 1-11.	2.1	46

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55	Plasmolysis and Vital Staining Reveal Viable Oospores of <i>Peronospora effusa</i> in Spinach Seed Lots. <i>Plant Disease</i> , 2016, 100, 59-65.	1.4	19
56	Season-Long Dynamics of Spinach Downy Mildew Determined by Spore Trapping and Disease Incidence. <i>Phytopathology</i> , 2016, 106, 1311-1318.	2.2	32
57	Detection and Quantification of <i>Bremia lactucae</i> by Spore Trapping and Quantitative PCR. <i>Phytopathology</i> , 2016, 106, 1426-1437.	2.2	39
58	Disease Management in the Genomics Era—Summaries of Focus Issue Papers. <i>Phytopathology</i> , 2016, 106, 1068-1070.	2.2	14
59	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.	2.1	71
60	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.	2.2	25
61	Focus Issue Articles on Emerging and Re-Emerging Plant Diseases. <i>Phytopathology</i> , 2015, 105, 852-854.	2.2	14
62	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, 181-198.	7.8	96
63	Multi-locus tree and species tree approaches toward resolving a complex clade of downy mildews (Straminipila, Oomycota), including pathogens of beet and spinach. <i>Molecular Phylogenetics and Evolution</i> , 2015, 86, 24-34.	2.7	58
64	<i>VdCYC8</i> , 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.	2.5	11
65	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.	1.0	3
66	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, 1349-1359.	2.2	55
67	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.	2.8	68
68	RNA-seq analyses of gene expression in the microsclerotia of <i>Verticillium dahliae</i> . <i>BMC Genomics</i> , 2013, 14, 607.	2.8	75
69	Colonization of Spinach by <i>Verticillium dahliae</i> and Effects of Pathogen Localization on the Efficacy of Seed Treatments. <i>Phytopathology</i> , 2013, 103, 268-280.	2.2	31
70	Real-Time PCR for the Quantification of Fungi In Planta. <i>Methods in Molecular Biology</i> , 2012, 835, 121-132.	0.9	11
71	A Real-Time PCR Assay for Detection and Quantification of <i>Verticillium dahliae</i> in Spinach Seed. <i>Phytopathology</i> , 2012, 102, 443-451.	2.2	46
72	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.	2.8	62

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73	One Step Construction of Agrobacterium-Recombination-ready-plasmids (OSCAR), an efficient and robust tool for ATMT based gene deletion construction in fungi. Fungal Genetics and Biology, 2011, 48, 677-684.	2.1	88
74	SSH reveals a linkage between a senescence-associated protease and Verticillium wilt symptom development in lettuce (<i>Lactuca sativa</i>). Physiological and Molecular Plant Pathology, 2011, 76, 48-58.	2.5	21
75	Identification of Pathogenicity-Related Genes in the Vascular Wilt Fungus <i>Verticillium dahliae</i> by Agrobacterium tumefaciens-Mediated T-DNA Insertional Mutagenesis. Molecular Biotechnology, 2011, 49, 209-221.	2.4	71
76	Comparative Genomics Yields Insights into Niche Adaptation of Plant Vascular Wilt Pathogens. PLoS Pathogens, 2011, 7, e1002137.	4.7	477
77	Analysis of <i>Verticillium dahliae</i> Suggests a Lack of Correlation Between Genotypic Diversity and Virulence Phenotypes. Plant Disease, 2011, 95, 1224-1232.	1.4	18
78	Selection for Resistance to Verticillium Wilt Caused by Race 2 Isolates of <i>Verticillium dahliae</i> in Accessions of Lettuce (<i>Lactuca sativa</i> L.). Hortscience: A Publication of the American Society for Horticultural Science, 2011, 46, 201-206.	1.0	19
79	Iceberg Lettuce Breeding Lines with Resistance to Verticillium Wilt Caused by Race 1 Isolates of <i>Verticillium dahliae</i> . Hortscience: A Publication of the American Society for Horticultural Science, 2011, 46, 501-504.	1.0	13
80	Population analyses of the vascular plant pathogen <i>Verticillium dahliae</i> detect recombination and transcontinental gene flow. Fungal Genetics and Biology, 2010, 47, 416-422.	2.1	86
81	Molecular Variation Among Isolates of <i>Verticillium dahliae</i> and Polymerase Chain Reaction-Based Differentiation of Races. Phytopathology, 2010, 100, 1222-1230.	2.2	55
82	Diversity, Pathogenicity, and Management of <i>Verticillium</i> Species. Annual Review of Phytopathology, 2009, 47, 39-62.	7.8	624
83	Permanent Genetic Resources added to Molecular Ecology Resources Database 1 May 2009–31 July 2009. Molecular Ecology Resources, 2009, 9, 1460-1466.	4.8	128
84	A Soilless <i>Verticillium</i> Wilt Assay Using an Early Flowering Lettuce Line. Plant Disease, 2009, 93, 691-698.	1.4	10
85	Ubc2, an Ortholog of the Yeast Ste50p Adaptor, Possesses a Basidiomycete-Specific Carboxy Terminal Extension Essential for Pathogenicity Independent of Pheromone Response. Molecular Plant-Microbe Interactions, 2008, 21, 110-121.	2.6	25
86	Genetics of Morphogenesis and Pathogenic Development of <i>Ustilago maydis</i> . Advances in Genetics, 2007, 57, 1-47.	1.8	69
87	Insights from the genome of the biotrophic fungal plant pathogen <i>Ustilago maydis</i> . Nature, 2006, 444, 97-101.	27.8	1,113
88	Genetics of Morphogenesis in Basidiomycetes. Applied Mycology and Biotechnology, 2005, , 353-422.	0.3	5
89	Analysis of pea HMG-I/Y expression suggests a role in defence gene regulation. Molecular Plant Pathology, 2003, 4, 249-258.	4.2	26
90	Plant HMG proteins bearing the AT-hook motif. Plant Science, 2002, 162, 855-866.	3.6	32

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91	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, 147-158.	4.2	33
92	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, 752-762.	4.8	47