David J Schneider

List of Publications by Year
in descending order

69 papers	7,355 citations	101543 36 h-index	98798 67 g-index
71 all docs	71 docs citations	71 times ranked	6931 citing authors

#	Article	IF	Citations
1	Development and Mapping of 2240 New SSR Markers for Rice (Oryza sativa L.). DNA Research, 2002, 9, 199-207.	3.4	1,203
2	The complete genome sequence of the Arabidopsis and tomato pathogen Pseudomonas syringae pv. tomato DC3000. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10181-10186.	7.1	785
3	Complete genome sequence of the plant commensal Pseudomonas fluorescens Pf-5. Nature Biotechnology, 2005, 23, 873-878.	17.5	615
4	The Perfect Club Benchmarks: Effective Performance Evaluation of Supercomputers. The International Journal of Supercomputer Applications, 1989, 3, 5-40.	0.5	312
5	Whole-Genome Sequence Analysis of Pseudomonas syringae pv. phaseolicola 1448A Reveals Divergence among Pathovars in Genes Involved in Virulence and Transposition. Journal of Bacteriology, 2005, 187, 6488-6498.	2.2	301
6	X-ray absorption spectroscopy of iron-tyrosinate proteins. Journal of the American Chemical Society, 1984, 106, 1676-1681.	13.7	281
7	Genomewide identification of Pseudomonas syringae pv. tomato DC3000 promoters controlled by the HrpL alternative sigma factor. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 2275-2280.	7.1	280
8	Deletions in the Repertoire of Pseudomonas syringae pv. tomato DC3000 Type III Secretion Effector Genes Reveal Functional Overlap among Effectors. PLoS Pathogens, 2009, 5, e1000388.	4.7	269
9	Genomewide identification of proteins secreted by the Hrp type III protein secretion system of Pseudomonas syringae pv. tomato DC3000. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 7652-7657.	7.1	266
10	Genomic mining type III secretion system effectors in Pseudomonas syringae yields new picks for all TTSS prospectors. Trends in Microbiology, 2002, 10, 462-469.	7.7	224
11	The Plant Pathogen Pseudomonas syringae pv. tomato Is Genetically Monomorphic and under Strong Selection to Evade Tomato Immunity. PLoS Pathogens, 2011, 7, e1002130.	4.7	186
12	Creating a Buzz About Insect Genomes. Science, 2011, 331, 1386-1386.	12.6	185
13	Calculating Slow Motional Magnetic Resonance Spectra. Biological Magnetic Resonance, 1989, , 1-76.	0.4	179
14	Closing the Circle on the Discovery of Genes Encoding Hrp Regulon Members and Type III Secretion System Effectors in the Genomes of Three Model Pseudomonas syringae Strains. Molecular Plant-Microbe Interactions, 2006, 19, 1151-1158.	2.6	138
15	A Draft Genome Sequence of Pseudomonas syringae pv. tomato T1 Reveals a Type III Effector Repertoire Significantly Divergent from That of Pseudomonas syringae pv. tomato DC3000. Molecular Plant-Microbe Interactions, 2009, 22, 52-62.	2.6	134
16	Development and Mapping of 2240 New SSR Markers for Rice (Oryza sativa L.) (Supplement). DNA Research, 2002, 9, 257-279.	3.4	121
17	Transcriptome Analysis of Pseudomonas syringae Identifies New Genes, Noncoding RNAs, and Antisense Activity. Journal of Bacteriology, 2010, 192, 2359-2372.	2.2	121
18	Multiple Approaches to a Complete Inventory of Pseudomonas syringae pv. tomato DC3000 Type III Secretion System Effector Proteins. Molecular Plant-Microbe Interactions, 2006, 19, 1180-1192.	2.6	119

#	Article	IF	Citations
19	Complete Genome Sequence of the Plant Pathogen Erwinia amylovora Strain ATCC 49946. Journal of Bacteriology, 2010, 192, 2020-2021.	2.2	112
20	Molecular Dynamics of Ionâ"Chelate Complexes Attached to Dendrimers. Journal of the American Chemical Society, 1996, 118, 7774-7782.	13.7	110
21	Roadmap to New Virulence Determinants in Pseudomonas syringae: Insights from Comparative Genomics and Genome Organization. Molecular Plant-Microbe Interactions, 2008, 21, 685-700.	2.6	109
22	Whole-Genome Expression Profiling Defines the HrpL Regulon of Pseudomonas syringae pv. tomato DC3000, Allows de novo Reconstruction of the Hrp cis Element, and Identifies Novel Coregulated Genes. Molecular Plant-Microbe Interactions, 2006, 19, 1167-1179.	2.6	105
23	Bioinformatics-Enabled Identification of the HrpL Regulon and Type III Secretion System Effector Proteins of Pseudomonas syringae pv. phaseolicola 1448A. Molecular Plant-Microbe Interactions, 2006, 19, 1193-1206.	2.6	81
24	A comparison of extraction systems for plant water stable isotope analysis. Rapid Communications in Mass Spectrometry, 2018, 32, 1031-1044.	1.5	75
25	Identification of a Twin-Arginine Translocation System in Pseudomonas syringae pv. tomato DC3000 and Its Contribution to Pathogenicity and Fitness. Journal of Bacteriology, 2005, 187, 8450-8461.	2.2	68
26	Characterization of the PvdSâ€regulated promoter motif in Pseudomonas syringae pv. tomato DC3000 reveals regulon members and insights regarding PvdS function in other pseudomonads. Molecular Microbiology, 2008, 68, 871-889.	2.5	67
27	Diffusion coefficients in anisotropic fluids by ESR imaging of concentration profiles. Journal of Chemical Physics, 1986, 84, 3387-3395.	3.0	65
28	Instability dynamics in three-dimensional fracture: An atomistic simulation. Journal of the Mechanics and Physics of Solids, 1997, 45, 1461-1471.	4.8	60
29	Studying Plant-Pathogen Interactions in the Genomics Era: Beyond Molecular Koch's Postulates to Systems Biology. Annual Review of Phytopathology, 2010, 48, 457-479.	7.8	57
30	Global transcriptional responses of Pseudomonas syringae DC3000 to changes in iron bioavailability in vitro. BMC Microbiology, 2008, 8, 209.	3.3	54
31	Construction of anrsmXco-variance model and identification of fiversmXnon-coding RNAs inPseudomonas syringae pv. tomatoDC3000. RNA Biology, 2010, 7, 508-516.	3.1	54
32	Effect of Iron Concentration on the Growth Rate of Pseudomonas syringae and the Expression of Virulence Factors in hrp -Inducing Minimal Medium. Applied and Environmental Microbiology, 2009, 75, 2720-2726.	3.1	51
33	Characterization of the Fur Regulon in Pseudomonas syringae pv. tomato DC3000. Journal of Bacteriology, 2011, 193, 4598-4611.	2.2	50
34	Functional, structural and phylogenetic analysis of domains underlying the <scp>A</scp>l sensitivity of the aluminumâ€activated malate/anion transporter, <scp>T</scp>a<scp>ALMT</scp>1. Plant Journal, 2013, 76, 766-780.	5.7	50
35	Calculation of ESR spectra and related Fokkerâ€"Planck forms by the use of the Lanczos algorithm. II. Criteria for truncation of basis sets and recursive steps utilizing conjugate gradients. Journal of Chemical Physics, 1987, 86, 647-661.	3.0	46
36	Evolving technologies for growing, imaging and analyzing 3D root system architecture of crop plants. Journal of Integrative Plant Biology, 2016, 58, 230-241.	8.5	43

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37	Two-strain competition in quasineutral stochastic disease dynamics. Physical Review E, 2014, 90, 042149.	2.1	34
38	Genome-Wide Identification of Transcriptional Start Sites in the Plant Pathogen Pseudomonas syringae pv. tomato str. DC3000. PLoS ONE, 2011, 6, e29335.	2.5	33
39	Ab initiodynamics of rapid fracture. Modelling and Simulation in Materials Science and Engineering, 1998, 6, 639-670.	2.0	32
40	Lifestyles of the Effector Rich: Genome-Enabled Characterization of Bacterial Plant Pathogens. Plant Physiology, 2009, 150, 1623-1630.	4.8	28
41	Epidemic fronts in complex networks with metapopulation structure. Physical Review E, 2013, 88, 012809.	2.1	24
42	Functional and Computational Analysis of Amino Acid Patterns Predictive of Type III Secretion System Substrates in Pseudomonas syringae. PLoS ONE, 2012, 7, e36038.	2.5	20
43	HopX1 in Erwinia amylovora Functions as an Avirulence Protein in Apple and Is Regulated by HrpL. Journal of Bacteriology, 2012, 194, 553-560.	2.2	18
44	Lineage-specific regions inPseudomonas syringaepv tomato DC3000. Molecular Plant Pathology, 2005, 6, 53-64.	4.2	14
45	Saturation mutagenesis of a CepR binding site as a means to identify new quorum-regulated promoters in Burkholderia cenocepacia. Molecular Microbiology, 2011, 79, 616-632.	2.5	14
46	Assessing the Toxicity of 17Î±-Ethinylestradiol in Rainbow Trout Using a 4-Day Transcriptomics Benchmark Dose (BMD) Embryo Assay. Environmental Science & Technology, 2021, 55, 10608-10618.	10.0	14
47	Development of a Comprehensive Toxicity Pathway Model for 17Î±-Ethinylestradiol in Early Life Stage Fathead Minnows (Pimephales promelas). Environmental Science & Technology, 2021, 55, 5024-5036.	10.0	13
48	Whole genome sequence of two Rathayibacter toxicus strains reveals a tunicamycin biosynthetic cluster similar to Streptomyces chartreusis. PLoS ONE, 2017, 12, e0183005.	2.5	13
49	A theoretical approach to the analysis of arbitrary pulses in magnetic resonance. Chemical Physics Letters, 1996, 262, 17-26.	2.6	12
50	Using multitype branching processes to quantify statistics of disease outbreaks in zoonotic epidemics. Physical Review E, 2014, 89, 032702.	2.1	11
51	Comparative analysis of transcriptomic points-of-departure (tPODs) and apical responses in embryo-larval fathead minnows exposed to fluoxetine. Environmental Pollution, 2022, 295, 118667.	7.5	10
52	Rapid determination of translational diffusion coefficients using ESR imaging. Journal of Magnetic Resonance, 1988, 79, 474-492.	0.5	9
53	Analysis of the early workload on the Cornell Theory Center IBM SP2. Performance Evaluation Review, 1996, 24, 272-273.	0.6	9
54	Analysis of the small RNA spf in the plant pathogen Pseudomonas syringae pv. tomato strain DC3000. Microbiology (United Kingdom), 2014, 160, 941-953.	1.8	9

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55	Immune responses in vitro. Immunogenetics, 1984, 20, 301-310.	2.4	7
56	Elevated ozone affects the genetic composition of Plantago lanceolata L. populations. Environmental Pollution, 2008, 152, 380-386.	7.5	7
57	Magnetic Resonance Spectra and Statistical Geometry. Applied Magnetic Resonance, 2010, 37, 865-880.	1.2	7
58	Complex responses to culture conditions in Pseudomonas syringae pv. tomato DC3000 continuous cultures: The role of iron in cell growth and virulence factor induction. Biotechnology and Bioengineering, 2010, 105, 955-964.	3.3	6
59	Further experiments comparing direct vapor equilibration and cryogenic vacuum distillation for plant water stable isotope analysis. Rapid Communications in Mass Spectrometry, 2019, 33, 1850-1854.	1.5	6
60	Proteome Profile and Genome Refinement of the Tomatoâ€Pathogenic Bacterium Clavibacter michiganensis subsp. michiganensis. Proteomics, 2019, 19, 1800224.	2.2	6
61	Theory for dynamic lineshapes of strongly correlated two-spin systems. Journal of Magnetic Resonance, 1989, 85, 275-293.	0.5	5
62	Rapid singular value decomposition for time-domain analysis of magnetic resonance signals by use of the lanczos algorithm. Journal of Magnetic Resonance, 1989, 82, 150-155.	0.5	5
63	Complexity of minor histocompatibility loci. Human Immunology, 1985, 14, 220-233.	2.4	4
64	The ECF sigma factor, PSPTO_1043, in Pseudomonas syringae pv. tomato DC3000 is induced by oxidative stress and regulates genes involved in oxidative stress response. PLoS ONE, 2017, 12, e0180340.	2.5	4
65	Computational identi?cation and characterization of Type III secretion substrates. , 0, , .		1
66	The Effect of Target Vector Selection on the Invariance of Classifier Performance Measures. IEEE Transactions on Neural Networks, 2009, 20, 745-757.	4.2	1
67	Optimal transport and barycenters for dendritic measures. Pure and Applied Analysis, 2020, 2, 581-601.	1.1	1
68	Charge Transfer Modeling for Charge-Coupled Devices. Materials Research Society Symposia Proceedings, 1997, 490, 251.	0.1	0
69	Parameter Estimation as a Problem in Statistical Thermodynamics. , 2011, 1305, 357-364.		0