

Daniel A Jacobson

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,320
citations

304743

22
h-index

243625

44
g-index

78
all docs

78
docs citations

78
times ranked

4086
citing authors

#	ARTICLE	IF	CITATIONS
1	A mechanistic model and therapeutic interventions for COVID-19 involving a RAS-mediated bradykinin storm. <i>ELife</i> , 2020, 9, .	6.0	296
2	The Vineyard Yeast Microbiome, a Mixed Model Microbial Map. <i>PLoS ONE</i> , 2012, 7, e52609.	2.5	176
3	Early initiation of prophylactic anticoagulation for prevention of coronavirus disease 2019 mortality in patients admitted to hospital in the United States: cohort study. <i>BMJ, The</i> , 2021, 372, n311.	6.0	166
4	The <i>Kalanchoe</i> genome provides insights into convergent evolution and building blocks of crassulacean acid metabolism. <i>Nature Communications</i> , 2017, 8, 1899.	12.8	159
5	Plant Host-Associated Mechanisms for Microbial Selection. <i>Frontiers in Plant Science</i> , 2019, 10, 862.	3.6	139
6	Accelerating Climate Resilient Plant Breeding by Applying Next-Generation Artificial Intelligence. <i>Trends in Biotechnology</i> , 2019, 37, 1217-1235.	9.3	134
7	Multitrait genome-wide association analysis of <i>Populus trichocarpa</i> identifies key polymorphisms controlling morphological and physiological traits. <i>New Phytologist</i> , 2019, 223, 293-309.	7.3	85
8	Development and validation of a 30-day mortality index based on pre-existing medical administrative data from 13,323 COVID-19 patients: The Veterans Health Administration COVID-19 (VACO) Index. <i>PLoS ONE</i> , 2020, 15, e0241825.	2.5	79
9	Fungal-Bacterial Networks in the <i>Populus</i> Rhizobiome Are Impacted by Soil Properties and Host Genotype. <i>Frontiers in Microbiology</i> , 2019, 10, 481.	3.5	71
10	Sequence-based Analysis of the <i>Vitis vinifera</i> L. cv Cabernet Sauvignon Grape Must Mycobiome in Three South African Vineyards Employing Distinct Agronomic Systems. <i>Frontiers in Microbiology</i> , 2015, 6, 1358.	3.5	64
11	Potentially adaptive SARS-CoV-2 mutations discovered with novel spatiotemporal and explainable AI models. <i>Genome Biology</i> , 2020, 21, 304.	8.8	55
12	The Sphagnum Project: enabling ecological and evolutionary insights through a genus-level sequencing project. <i>New Phytologist</i> , 2018, 217, 16-25.	7.3	54
13	Hardwood Tree Genomics: Unlocking Woody Plant Biology. <i>Frontiers in Plant Science</i> , 2018, 9, 1799.	3.6	50
14	SARS-CoV-2 suppresses anticoagulant and fibrinolytic gene expression in the lung. <i>ELife</i> , 2021, 10, .	6.0	46
15	Mediation of plant-mycorrhizal interaction by a lectin receptor-like kinase. <i>Nature Plants</i> , 2019, 5, 676-680.	9.3	42
16	Pleiotropic and Epistatic Network-Based Discovery: Integrated Networks for Target Gene Discovery. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	32
17	Can exascale computing and explainable artificial intelligence applied to plant biology deliver on the United Nations sustainable development goals?. <i>Current Opinion in Biotechnology</i> , 2020, 61, 217-225.	6.6	32
18	3-way Networks: Application of Hypergraphs for Modelling Increased Complexity in Comparative Genomics. <i>PLoS Computational Biology</i> , 2015, 11, e1004079.	3.2	29

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19	Attacking the Opioid Epidemic: Determining the Epistatic and Pleiotropic Genetic Architectures for Chronic Pain and Opioid Addiction. , 2018, , .		29
20	High Throughput Screening Technologies in Biomass Characterization. <i>Frontiers in Energy Research</i> , 2018, 6, .	2.3	28
21	Network Metamodeling: Effect of Correlation Metric Choice on Phylogenomic and Transcriptomic Network Topology. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2016, 160, 143-183.	1.1	27
22	Defining the genetic components of callus formation: A GWAS approach. <i>PLoS ONE</i> , 2018, 13, e0202519.	2.5	27
23	Sensory interaction between 3-mercaptohexan-1-ol and 2-isobutyl-3-methoxypyrazine in dearomatised Sauvignon Blanc wine. <i>Australian Journal of Grape and Wine Research</i> , 2014, 20, 178-185.	2.1	26
24	A High-Performance Computing Implementation of Iterative Random Forest for the Creation of Predictive Expression Networks. <i>Genes</i> , 2019, 10, 996.	2.4	26
25	Sensory interaction between 3-mercaptohexan-1-ol, 3-isobutyl-2-methoxypyrazine and oxidation-related compounds. <i>Australian Journal of Grape and Wine Research</i> , 2015, 21, 179-188.	2.1	25
26	Characterization of aromatic acid/proton symporters in <i>Pseudomonas putida</i> KT2440 toward efficient microbial conversion of lignin-related aromatics. <i>Metabolic Engineering</i> , 2021, 64, 167-179.	7.0	24
27	Quinoa Phenotyping Methodologies: An International Consensus. <i>Plants</i> , 2021, 10, 1759.	3.5	24
28	Phytobiome and Transcriptional Adaptation of <i>Populus deltoides</i> to Acute Progressive Drought and Cyclic Drought. <i>Phytobiomes Journal</i> , 2018, 2, 249-260.	2.7	23
29	Potential Pathogenicity Determinants Identified from Structural Proteomics of SARS-CoV and SARS-CoV-2. <i>Molecular Biology and Evolution</i> , 2021, 38, 702-715.	8.9	23
30	NF- κ B perturbation reveals unique immunomodulatory functions in Prx1 fibroblasts that promote development of atopic dermatitis. <i>Science Translational Medicine</i> , 2022, 14, eabj0324.	12.4	22
31	Genome-Wide Association Study of Wood Anatomical and Morphological Traits in <i>Populus trichocarpa</i> . <i>Frontiers in Plant Science</i> , 2020, 11, 545748.	3.6	21
32	Multi-Phenotype Association Decomposition: Unraveling Complex Gene-Phenotype Relationships. <i>Frontiers in Genetics</i> , 2019, 10, 417.	2.3	20
33	Polypharmacy-associated risk of hospitalisation among people ageing with and without HIV: an observational study. <i>The Lancet Healthy Longevity</i> , 2021, 2, e639-e650.	4.6	18
34	Sensory effect of acetaldehyde on the perception of 3-mercaptohexan-1-ol and 3-isobutyl-2-methoxypyrazine. <i>Australian Journal of Grape and Wine Research</i> , 2016, 22, 197-204.	2.1	17
35	Differences in resource use lead to coexistence of seed-transmitted microbial populations. <i>Scientific Reports</i> , 2019, 9, 6648.	3.3	17
36	Parallel accelerated vector similarity calculations for genomics applications. <i>Parallel Computing</i> , 2018, 75, 130-145.	2.1	16

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37	Data Integration in Poplar: Omics Layers and Integration Strategies. <i>Frontiers in Genetics</i> , 2019, 10, 874.	2.3	15
38	Image-Based Methods to Score Fungal Pathogen Symptom Progression and Severity in Excised <i>Arabidopsis</i> Leaves. <i>Plants</i> , 2021, 10, 158.	3.5	15
39	Epigenetic effects of paternal cocaine on reward stimulus behavior and accumbens gene expression in mice. <i>Behavioural Brain Research</i> , 2019, 367, 68-81.	2.2	14
40	Finding New Cell Wall Regulatory Genes in <i>Populus trichocarpa</i> Using Multiple Lines of Evidence. <i>Frontiers in Plant Science</i> , 2019, 10, 1249.	3.6	13
41	Parallel accelerated Custom Correlation Coefficient calculations for genomics applications. <i>Parallel Computing</i> , 2019, 84, 15-23.	2.1	12
42	Integration of evidence across human and model organism studies: A meeting report. <i>Genes, Brain and Behavior</i> , 2021, 20, e12738.	2.2	12
43	Wavelet-Based Genomic Signal Processing for Centromere Identification and Hypothesis Generation. <i>Frontiers in Genetics</i> , 2019, 10, 487.	2.3	11
44	Neurotransmitter networks in mouse prefrontal cortex are reconfigured by isoflurane anesthesia. <i>Journal of Neurophysiology</i> , 2020, 123, 2285-2296.	1.8	10
45	A k-mer based approach for classifying viruses without taxonomy identifies viral associations in human autism and plant microbiomes. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 5911-5919.	4.1	10
46	A Variable Polyglutamine Repeat Affects Subcellular Localization and Regulatory Activity of a <i>Populus</i> ANGUSTIFOLIA Protein. <i>G3: Genes, Genomes, Genetics</i> , 2018, 8, 2631-2641.	1.8	9
47	Reusability First: Toward FAIR Workflows. , 2021, , .		9
48	Isoflurane anesthesia disrupts the cortical metabolome. <i>Journal of Neurophysiology</i> , 2020, 124, 2012-2021.	1.8	5
49	Network Modeling of Complex Data Sets. <i>Methods in Molecular Biology</i> , 2020, 2096, 197-215.	0.9	5
50	Protoplast fusion in <i>Bacillus</i> species produces frequent, unbiased, genome-wide homologous recombination. <i>Nucleic Acids Research</i> , 2022, , .	14.5	4
51	A vision of immuno-oncology: the Siena think tank of the Italian network for tumor biotherapy (NIBIT) foundation. <i>Journal of Experimental and Clinical Cancer Research</i> , 2021, 40, 240.	8.6	3
52	COVID-19 Insights Partnership: Leveraging big data from the Department of Veterans Affairs and supercomputers at the Department of Energy under the public health authority. <i>Journal of the American Medical Informatics Association: JAMIA</i> , 2021, 28, 1578-1581.	4.4	2
53	Response to comment on SARS-CoV-2 suppresses anticoagulant and fibrinolytic gene expression in the lung. <i>ELife</i> , 2022, 11, .	6.0	1
54	Antiviral Strategies Against SARS-CoV-2: A Systems Biology Approach. <i>Methods in Molecular Biology</i> , 2022, 2452, 317-351.	0.9	1

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55	The Phylogenetic Roots of Addiction: Compulsive Drug Seeking, Natural and Drug-Sensitive Reward, and the Acquisition of Learned Habits. <i>Brain, Behavior and Evolution</i> , 2020, 95, 1-5.	1.7	0
56	Title is missing!., 2020, 15, e0241825.		0
57	Title is missing!., 2020, 15, e0241825.		0
58	Title is missing!., 2020, 15, e0241825.		0
59	Title is missing!., 2020, 15, e0241825.		0