

Thomas E Juenger

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2179567/thomas-e-juenger-publications-by-citations.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

113
papers

4,592
citations

41
h-index

65
g-index

123
ext. papers

5,917
ext. citations

6.8
avg, IF

5.62
L-index

#	Paper	IF	Citations
113	Genotype-by-Environment Interaction and Plasticity: Exploring Genomic Responses of Plants to the Abiotic Environment. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2013 , 44, 5-29	13.5	213
112	Extensive gene content variation in the <i>Brachypodium distachyon</i> pan-genome correlates with population structure. <i>Nature Communications</i> , 2017 , 8, 2184	17.4	168
111	Genome-environment associations in sorghum landraces predict adaptive traits. <i>Science Advances</i> , 2015 , 1, e1400218	14.3	160
110	Identification and characterization of QTL underlying whole-plant physiology in <i>Arabidopsis thaliana</i> : $\delta^{13}C$, stomatal conductance and transpiration efficiency. <i>Plant, Cell and Environment</i> , 2005 , 28, 697-708	8.4	149
109	Characterizing genomic variation of <i>Arabidopsis thaliana</i> : the roles of geography and climate. <i>Molecular Ecology</i> , 2012 , 21, 5512-29	5.7	144
108	The evolution of compensation to herbivory in scarlet gilia, <i>Ipomopsis aggregata</i> : herbivore-imposed natural selection and the quantitative genetics of tolerance. <i>Evolution; International Journal of Organic Evolution</i> , 2000 , 54, 764-77	3.8	132
107	<i>Arabidopsis ECERIFERUM9</i> involvement in cuticle formation and maintenance of plant water status. <i>Plant Physiology</i> , 2012 , 159, 930-44	6.6	123
106	Physiological genomics of response to soil drying in diverse <i>Arabidopsis</i> accessions. <i>Plant Cell</i> , 2012 , 24, 893-914	11.6	111
105	Drought, metabolites, and <i>Arabidopsis</i> natural variation: a promising combination for understanding adaptation to water-limited environments. <i>Current Opinion in Plant Biology</i> , 2011 , 14, 240-5	9.9	108
104	Genetics of drought adaptation in <i>Arabidopsis thaliana</i> II. QTL analysis of a new mapping population, KAS-1 x TSU-1. <i>Evolution; International Journal of Organic Evolution</i> , 2008 , 62, 3014-26	3.8	103
103	POLLEN AND RESOURCE LIMITATION OF COMPENSATION TO HERBIVORY IN SCARLET GILIA, <i>IPOMOPSIS AGGREGATA</i> . <i>Ecology</i> , 1997 , 78, 1684-1695	4.6	101
102	PAIRWISE VERSUS DIFFUSE NATURAL SELECTION AND THE MULTIPLE HERBIVORES OF SCARLET GILIA, <i>IPOMOPSIS AGGREGATA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 1583-1592	3.8	101
101	Intron-mediated alternative splicing of <i>Arabidopsis P5CS1</i> and its association with natural variation in proline and climate adaptation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 9197-202	11.5	99
100	Natural variation and genetic constraints on drought tolerance. <i>Current Opinion in Plant Biology</i> , 2013 , 16, 274-81	9.9	97
99	Quantitative trait loci mapping of floral and leaf morphology traits in <i>Arabidopsis thaliana</i> : evidence for modular genetic architecture. <i>Evolution & Development</i> , 2005 , 7, 259-71	2.6	95
98	Pleiotropy of <i>FRIGIDA</i> enhances the potential for multivariate adaptation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20131043	4.4	86
97	Quantitative trait loci for floral morphology in <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 2000 , 156, 1379-92	4	85

96	Genome-wide association mapping combined with reverse genetics identifies new effectors of low water potential-induced proline accumulation in Arabidopsis. <i>Plant Physiology</i> , 2014 , 164, 144-59	6.6	83
95	Mapping quantitative trait loci in multiple populations of Arabidopsis thaliana identifies natural allelic variation for trichome density. <i>Genetics</i> , 2005 , 169, 1649-58	4	79
94	Natural variation in abiotic stress responsive gene expression and local adaptation to climate in Arabidopsis thaliana. <i>Molecular Biology and Evolution</i> , 2014 , 31, 2283-96	8.3	77
93	Effects of perinatal polychlorinated biphenyls on adult female rat reproduction: development, reproductive physiology, and second generational effects. <i>Biology of Reproduction</i> , 2008 , 78, 1091-101	3.9	75
92	Pleiotropy, plasticity, and the evolution of plant abiotic stress tolerance. <i>Annals of the New York Academy of Sciences</i> , 2010 , 1206, 56-79	6.5	73
91	Regrowth Following Herbivory in Ipomopsis aggregata: Compensation but not Overcompensation. <i>American Naturalist</i> , 1996 , 148, 744-755	3.7	73
90	The effects of prenatal PCBs on adult female paced mating reproductive behaviors in rats. <i>Hormones and Behavior</i> , 2007 , 51, 364-72	3.7	72
89	Direct and indirect selection on flowering time, water-use efficiency (WUE, $\delta^{13}C$), and WUE plasticity to drought in Arabidopsis thaliana. <i>Ecology and Evolution</i> , 2014 , 4, 4505-21	2.8	70
88	Quantitative trait loci affecting delta13C and response to differential water availability in Arabidopsis thaliana. <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 81-96	3.8	69
87	Natural variation in timing of stress-responsive gene expression predicts heterosis in intraspecific hybrids of Arabidopsis. <i>Nature Communications</i> , 2015 , 6, 7453	17.4	68
86	Adaptations between ecotypes and along environmental gradients in Panicum virgatum. <i>American Naturalist</i> , 2014 , 183, 682-92	3.7	68
85	QUANTITATIVE TRAIT LOCI AFFECTING $\delta^{13}C$ AND RESPONSE TO DIFFERENTIAL WATER AVAILABILITY IN ARABIDOPSIS THALLANA. <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 81-96	3.8	64
84	Integrating transcriptional, metabolomic, and physiological responses to drought stress and recovery in switchgrass (Panicum virgatum L.). <i>BMC Genomics</i> , 2014 , 15, 527	4.5	63
83	Temporal Shift of Circadian-Mediated Gene Expression and Carbon Fixation Contributes to Biomass Heterosis in Maize Hybrids. <i>PLoS Genetics</i> , 2016 , 12, e1006197	6	63
82	Variation in MPK12 affects water use efficiency in Arabidopsis and reveals a pleiotropic link between guard cell size and ABA response. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2836-41	11.5	60
81	The evolution of tolerance to damage in Gentianella campestris: natural selection and the quantitative genetics of tolerance. <i>Evolutionary Ecology</i> , 2000 , 14, 393	1.8	59
80	Genetic variation in Arabidopsis thaliana for night-time leaf conductance. <i>Plant, Cell and Environment</i> , 2008 , 31, 1170-8	8.4	58
79	Epistasis and genotype-environment interaction for quantitative trait loci affecting flowering time in Arabidopsis thaliana. <i>Genetica</i> , 2005 , 123, 87-105	1.5	58

78	The physiological basis for genetic variation in water use efficiency and carbon isotope composition in <i>Arabidopsis thaliana</i> . <i>Photosynthesis Research</i> , 2014 , 119, 119-29	3.7	57
77	Genotypic variation in traits linked to climate and aboveground productivity in a widespread C ₄ grass: evidence for a functional trait syndrome. <i>New Phytologist</i> , 2013 , 199, 966-980	9.8	55
76	Pairwise Versus Diffuse Natural Selection and the Multiple Herbivores of Scarlet Gilia, <i>Ipomopsis aggregata</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1998 , 52, 1583	3.8	53
75	The genomic landscape of molecular responses to natural drought stress in <i>Panicum hallii</i> . <i>Nature Communications</i> , 2018 , 9, 5213	17.4	51
74	Molecular, genetic and evolutionary analysis of a paracentric inversion in <i>Arabidopsis thaliana</i> . <i>Plant Journal</i> , 2016 , 88, 159-178	6.9	47
73	Genomic mechanisms of climate adaptation in polyploid bioenergy switchgrass. <i>Nature</i> , 2021 , 590, 438-444	4.4	42
72	Developmental profiles of neuroendocrine gene expression in the preoptic area of male rats. <i>Endocrinology</i> , 2009 , 150, 2308-16	4.8	40
71	The genetics of divergence and reproductive isolation between ecotypes of <i>Panicum hallii</i> . <i>New Phytologist</i> , 2015 , 205, 402-14	9.8	39
70	Exploring genetic and expression differences between physiologically extreme ecotypes: comparative genomic hybridization and gene expression studies of Kas-1 and Tsu-1 accessions of <i>Arabidopsis thaliana</i> . <i>Plant, Cell and Environment</i> , 2010 , 33, 1268-84	8.4	37
69	QTL \times Environment interactions underlie adaptive divergence in switchgrass across a large latitudinal gradient. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 12933-12941	11.5	36
68	Gene Expression analysis associated with salt stress in a reciprocally crossed rice population. <i>Scientific Reports</i> , 2019 , 9, 8249	4.9	35
67	Heritability and correlation structure of nectar and floral morphology traits in <i>Nicotiana glauca</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2008 , 62, 1738-50	3.8	35
66	Natural genetic variation in whole-genome expression in <i>Arabidopsis thaliana</i> : the impact of physiological QTL introgression. <i>Molecular Ecology</i> , 2006 , 15, 1351-65	5.7	33
65	Ecological interactions and the fitness effect of water-use efficiency: Competition and drought alter the impact of natural MPK12 alleles in <i>Arabidopsis</i> . <i>Ecology Letters</i> , 2016 , 19, 424-34	10	32
64	Exploiting Differential Gene Expression and Epistasis to Discover Candidate Genes for Drought-Associated QTLs in <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2015 , 27, 969-83	11.6	31
63	Genomics of sorghum local adaptation to a parasitic plant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 4243-4251	11.5	31
62	Drought responsive gene expression regulatory divergence between upland and lowland ecotypes of a perennial C ₄ grass. <i>Genome Research</i> , 2016 , 26, 510-8	9.7	30
61	Substantial deletion overlap among divergent <i>Arabidopsis</i> genomes revealed by intersection of short reads and tiling arrays. <i>Genome Biology</i> , 2010 , 11, R4	18.3	30

60	Natural variation identifies genes affecting drought-induced abscisic acid accumulation in. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 11536-11541	11.5	29
59	Scarlet gilia resistance to insect herbivory: the effects of early season browsing, plant apparency, and phytochemistry on patterns of seed fly attack. <i>Evolutionary Ecology</i> , 2005 , 19, 79-101	1.8	29
58	Reproductive stage physiological and transcriptional responses to salinity stress in reciprocal populations derived from tolerant (Horkuch) and susceptible (IR29) rice. <i>Scientific Reports</i> , 2017 , 7, 46138	4.9	27
57	Promises and Challenges of Eco-Physiological Genomics in the Field: Tests of Drought Responses in Switchgrass. <i>Plant Physiology</i> , 2016 , 172, 734-748	6.6	26
56	The Genetic Basis of Upland/Lowland Ecotype Divergence in Switchgrass (. <i>G3: Genes, Genomes, Genetics</i> , 2016 , 6, 3561-3570	3.2	24
55	Interactive effects of water limitation and elevated temperature on the physiology, development and fitness of diverse accessions of <i>Brachypodium distachyon</i> . <i>New Phytologist</i> , 2017 , 214, 132-144	9.8	23
54	Gamete fertility and ovule number variation in selfed reciprocal F1 hybrid triploid plants are heritable and display epigenetic parent-of-origin effects. <i>New Phytologist</i> , 2013 , 198, 71-81	9.8	23
53	QTLs for Biomass and Developmental Traits in Switchgrass (<i>Panicum virgatum</i>). <i>Bioenergy Research</i> , 2015 , 8, 1856-1867	3.1	22
52	Plant compartment and genetic variation drive microbiome composition in switchgrass roots. <i>Environmental Microbiology Reports</i> , 2019 , 11, 185-195	3.7	22
51	Artificial Microbiome-Selection to Engineer Microbiomes That Confer Salt-Tolerance to Plants		19
50	Development of a next-generation NIL library in <i>Arabidopsis thaliana</i> for dissecting complex traits. <i>BMC Genomics</i> , 2013 , 14, 655	4.5	18
49	Pollen and Resource Limitation of Compensation to Herbivory in Scarlet Gilia, <i>Ipomopsis aggregata</i> . <i>Ecology</i> , 1997 , 78, 1684	4.6	18
48	THE EVOLUTION OF COMPENSATION TO HERBIVORY IN SCARLET GILIA, <i>IPOMOPSIS AGGREGATA</i> : HERBIVORE-IMPOSED NATURAL SELECTION AND THE QUANTITATIVE GENETICS OF TOLERANCE. <i>Evolution; International Journal of Organic Evolution</i> , 2000 , 54, 764	3.8	16
47	DOES EARLY SEASON BROWSING INFLUENCE THE EFFECT OF SELF-POLLINATION IN SCARLET GILIA?. <i>Ecology</i> , 2000 , 81, 41-48	4.6	16
46	Quantitative trait loci associated with natural diversity in water-use efficiency and response to soil drying in <i>Brachypodium distachyon</i> . <i>Plant Science</i> , 2016 , 251, 2-11	5.3	16
45	Spatial land use trade-offs for maintenance of biodiversity, biofuel, and agriculture. <i>Landscape Ecology</i> , 2015 , 30, 1987-1999	4.3	15
44	Genetic Associations in Four Decades of Multienvironment Trials Reveal Agronomic Trait Evolution in Common Bean. <i>Genetics</i> , 2020 , 215, 267-284	4	13
43	Natural Variation in 9-Cis-Epoxycartenoid Dioxygenase 3 and ABA Accumulation. <i>Plant Physiology</i> , 2019 , 179, 1620-1631	6.6	12

42	Conservation of Endophyte Bacterial Community Structure Across Two Grass Species. <i>Frontiers in Microbiology</i> , 2019 , 10, 2181	5.7	11
41	A population genetic transect of <i>Panicum hallii</i> (Poaceae). <i>American Journal of Botany</i> , 2013 , 100, 592-601	7.1	11
40	Effects of two centuries of global environmental variation on phenology and physiology of <i>Arabidopsis thaliana</i> . <i>Global Change Biology</i> , 2020 , 26, 523-538	11.4	10
39	Overcoming small minirhizotron datasets using transfer learning. <i>Computers and Electronics in Agriculture</i> , 2020 , 175, 105466	6.5	9
38	QTL and Drought Effects on Leaf Physiology in Lowland <i>Panicum virgatum</i> . <i>Bioenergy Research</i> , 2016 , 9, 1241-1259	3.1	9
37	Deeply diverged alleles in the <i>Arabidopsis</i> AREB1 transcription factor drive genome-wide differences in transcriptional response to the environment. <i>Molecular Biology and Evolution</i> , 2015 , 32, 956-69	8.3	9
36	Population differentiation in <i>Daphnia</i> alters community assembly in experimental ponds. <i>American Naturalist</i> , 2011 , 177, 314-22	3.7	8
35	Artificial Selection on Microbiomes To Breed Microbiomes That Confer Salt Tolerance to Plants. <i>MSystems</i> , 2021 , e0112521	7.6	8
34	Complex interactions between day length and diurnal patterns of gene expression drive photoperiodic responses in a perennial C grass. <i>Plant, Cell and Environment</i> , 2019 , 42, 2165-2182	8.4	7
33	Brachypodium and the Abiotic Environment. <i>Plant Genetics and Genomics: Crops and Models</i> , 2015 , 291-301	3.1	7
32	Extensive cross-environment fitness variation lies along few axes of genetic variation in the model alga, <i>Chlamydomonas reinhardtii</i> . <i>New Phytologist</i> , 2015 , 205, 841-51	9.8	7
31	Geographic variation in the genetic basis of resistance to leaf rust between locally adapted ecotypes of the biofuel crop switchgrass (<i>Panicum virgatum</i>). <i>New Phytologist</i> , 2020 , 227, 1696-1708	9.8	7
30	Climatic impact, future biomass production, and local adaptation of four switchgrass cultivars. <i>GCB Bioenergy</i> , 2019 , 11, 956-970	5.6	7
29	Identification and characterization of nuclear microsatellite loci for multiple species of chorus frogs (<i>Pseudacris</i>) for population genetic analyses. <i>Conservation Genetics Resources</i> , 2011 , 3, 233-237	0.8	7
28	Microsatellite markers for the native Texas perennial grass, <i>Panicum hallii</i> (Poaceae). <i>American Journal of Botany</i> , 2012 , 99, e114-6	2.7	7
27	Quantitative trait loci for cell wall composition traits measured using near-infrared spectroscopy in the model C4 perennial grass. <i>Biotechnology for Biofuels</i> , 2018 , 11, 25	7.8	6
26	Adaptive differentiation in floral traits in the presence of high gene flow in scarlet gilia (<i>Ipomopsis aggregata</i>). <i>Molecular Ecology</i> , 2016 , 25, 5862-5875	5.7	6
25	Components of the ribosome biogenesis pathway underlie establishment of telomere length set point in <i>Arabidopsis</i> . <i>Nature Communications</i> , 2019 , 10, 5479	17.4	6

24	Natural variation in plant telomere length is associated with flowering time. <i>Plant Cell</i> , 2021 , 33, 1118-1134	13.6	6
23	The Genetic Architecture of Shoot and Root Trait Divergence Between Mesic and Xeric Ecotypes of a Perennial Grass. <i>Frontiers in Plant Science</i> , 2019 , 10, 366	6.2	5
22	Isolation and characterization of nuclear microsatellite loci for the common green darner dragonfly <i>Anax junius</i> (Odonata: Aeshnidae) to constrain patterns of phenotypic and spatial diversity. <i>Molecular Ecology Notes</i> , 2007 , 7, 845-847		5
21	Natural variation in growth and physiology under salt stress in rice: QTL mapping in a Horkuch × IR29 mapping population at seedling and reproductive stages		5
20	Transgenerational effects of inter-ploidy cross direction on reproduction and F2 seed development of <i>Arabidopsis thaliana</i> F1 hybrid triploids. <i>Plant Reproduction</i> , 2019 , 32, 275-289	3.9	4
19	Environmentally responsive QTL controlling surface wax load in switchgrass. <i>Theoretical and Applied Genetics</i> , 2020 , 133, 3119-3137	6	4
18	Climate and stomatal traits drive covariation in nighttime stomatal conductance and daytime gas exchange rates in a widespread C grass. <i>New Phytologist</i> , 2021 , 229, 2020-2034	9.8	4
17	Plant biomass, not plant economics traits, determines responses of soil CO ₂ efflux to precipitation in the C ₄ grass <i>Panicum virgatum</i> . <i>Journal of Ecology</i> , 2020 , 108, 2095-2106	6	3
16	Novel and Emerging Capabilities that Can Provide a Holistic Understanding of the Plant Root Microbiome. <i>Phytobiomes Journal</i> , 2021 , 5, 122-132	4.8	3
15	Root identification in minirhizotron imagery with multiple instance learning. <i>Machine Vision and Applications</i> , 2020 , 31, 1	2.8	2
14	Sensitivity Analysis of the APEX Model for Assessing Sustainability of Switchgrass Grown for Biofuel Production in Central Texas. <i>Bioenergy Research</i> , 2018 , 11, 69-85	3.1	2
13	Genetic Mapping Reveals an Anthocyanin Biosynthesis Pathway Gene Potentially Influencing Evolutionary Divergence between Two Subspecies of Scarlet Gilia (<i>Ipomopsis aggregata</i>). <i>Molecular Biology and Evolution</i> , 2018 , 35, 807-822	8.3	2
12	Weakly Supervised Minirhizotron Image Segmentation with MIL-CAM. <i>Lecture Notes in Computer Science</i> , 2020 , 433-449	0.9	2
11	The genetic basis of the root economics spectrum in a perennial grass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	2
10	QTL x environment interactions underlie ionome divergence in switchgrass. <i>G3: Genes, Genomes, Genetics</i> , 2021 ,	3.2	2
9	Population genomics and climate adaptation of a C ₄ perennial grass, <i>Panicum hallii</i> (Poaceae). <i>BMC Genomics</i> , 2018 , 19, 792	4.5	2
8	Geographic patterns of genomic diversity and structure in the C grass across its natural distribution. <i>AoB PLANTS</i> , 2021 , 13, plab002	2.9	2
7	QUANTITATIVE TRAIT LOCI AFFECTING ¹³ C AND RESPONSE TO DIFFERENTIAL WATER AVAILABILITY IN <i>ARABIDOPSIS THALIANA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 81	3.8	1

6	The genetic architecture of shoot and root trait divergence between upland and lowland ecotypes of a perennial grass		1
5	Geographic variation in the genetic basis of resistance to leaf rust between locally adapted ecotypes of the biofuel crop switchgrass (<i>Panicum virgatum</i>)		1
4	A generalist-specialist trade-off between switchgrass cytotypes impacts climate adaptation and geographic range.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2118879119	11.5	1
3	A High-Throughput 3Ttag RNA Sequencing for Large-Scale Time-Series Transcriptome Studies. <i>Methods in Molecular Biology</i> , 2022 , 2398, 151-172	1.4	0
2	Neuroendocrine Effects of Developmental PCB Exposure, with Particular Reference to Hypothalamic Gene Expression. <i>Research and Perspectives in Endocrine Interactions</i> , 2011 , 1-21		
1	Chapter 6 Intraspecific Variation in Plant Responses to Atmospheric CO ₂ , Temperature, and Water Availability. <i>Advances in Photosynthesis and Respiration</i> , 2021 , 133-169		1.7