

Thomas E Juenger

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/2179567/thomas-e-juenger-publications-by-year.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	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
112	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
111	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
110	Artificial Selection on Microbiomes To Breed Microbiomes That Confer Salt Tolerance to Plants. <i>MSystems</i> , 2021 , e0112521	7.6	8
109	QTL x environment interactions underlie ionome divergence in switchgrass. <i>G3: Genes, Genomes, Genetics</i> , 2021 ,	3.2	2
108	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
107	Natural variation in plant telomere length is associated with flowering time. <i>Plant Cell</i> , 2021 , 33, 1118-1134	13.6	6
106	Genomic mechanisms of climate adaptation in polyploid bioenergy switchgrass. <i>Nature</i> , 2021 , 590, 438-444	44.4	42
105	Chapter 6 Intraspecific Variation in Plant Responses to Atmospheric CO2, Temperature, and Water Availability. <i>Advances in Photosynthesis and Respiration</i> , 2021 , 133-169	1.7	
104	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
103	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
102	Plant biomass, not plant economics traits, determines responses of soil CO2 efflux to precipitation in the C4 grass <i>Panicum virgatum</i> . <i>Journal of Ecology</i> , 2020 , 108, 2095-2106	6	3
101	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
100	Root identification in minirhizotron imagery with multiple instance learning. <i>Machine Vision and Applications</i> , 2020 , 31, 1	2.8	2
99	Overcoming small minirhizotron datasets using transfer learning. <i>Computers and Electronics in Agriculture</i> , 2020 , 175, 105466	6.5	9
98	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
97	Weakly Supervised Minirhizotron Image Segmentation with MIL-CAM. <i>Lecture Notes in Computer Science</i> , 2020 , 433-449	0.9	2

96	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
95	Environmentally responsive QTL controlling surface wax load in switchgrass. <i>Theoretical and Applied Genetics</i> , 2020 , 133, 3119-3137	6	4
94	Genetic Associations in Four Decades of Multienvironment Trials Reveal Agronomic Trait Evolution in Common Bean. <i>Genetics</i> , 2020 , 215, 267-284	4	13
93	Conservation of Endophyte Bacterial Community Structure Across Two Grass Species. <i>Frontiers in Microbiology</i> , 2019 , 10, 2181	5.7	11
92	Natural Variation in 9-Cis-Epoxycartenoid Dioxygenase 3 and ABA Accumulation. <i>Plant Physiology</i> , 2019 , 179, 1620-1631	6.6	12
91	Gene Expression analysis associated with salt stress in a reciprocally crossed rice population. <i>Scientific Reports</i> , 2019 , 9, 8249	4.9	35
90	QTL 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
89	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
88	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
87	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
86	Climatic impact, future biomass production, and local adaptation of four switchgrass cultivars. <i>GCB Bioenergy</i> , 2019 , 11, 956-970	5.6	7
85	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
84	Plant compartment and genetic variation drive microbiome composition in switchgrass roots. <i>Environmental Microbiology Reports</i> , 2019 , 11, 185-195	3.7	22
83	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
82	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
81	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
80	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
79	Population genomics and climate adaptation of a C4 perennial grass, <i>Panicum hallii</i> (Poaceae). <i>BMC Genomics</i> , 2018 , 19, 792	4.5	2

78	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
77	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
76	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
75	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
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	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
72	The Genetic Basis of Upland/Lowland Ecotype Divergence in Switchgrass (. <i>G3: Genes, Genomes, Genetics</i> , 2016 , 6, 3561-3570	3.2	24
71	QTL and Drought Effects on Leaf Physiology in Lowland <i>Panicum virgatum</i> . <i>Bioenergy Research</i> , 2016 , 9, 1241-1259	3.1	9
70	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
69	Drought responsive gene expression regulatory divergence between upland and lowland ecotypes of a perennial C4 grass. <i>Genome Research</i> , 2016 , 26, 510-8	9.7	30
68	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
67	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
66	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
65	Natural variation in timing of stress-responsive gene expression predicts heterosis in intraspecific hybrids of <i>Arabidopsis</i> . <i>Nature Communications</i> , 2015 , 6, 7453	17.4	68
64	Genome-environment associations in sorghum landraces predict adaptive traits. <i>Science Advances</i> , 2015 , 1, e1400218	14.3	160
63	QTLs for Biomass and Developmental Traits in Switchgrass (<i>Panicum virgatum</i>). <i>Bioenergy Research</i> , 2015 , 8, 1856-1867	3.1	22
62	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
61	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

60	Brachypodium and the Abiotic Environment. <i>Plant Genetics and Genomics: Crops and Models</i> , 2015 , 291-301	10.1	7
59	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
58	Spatial land use trade-offs for maintenance of biodiversity, biofuel, and agriculture. <i>Landscape Ecology</i> , 2015 , 30, 1987-1999	4.3	15
57	Deeply diverged alleles in the Arabidopsis 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
56	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
55	Integrating transcriptional, metabolomic, and physiological responses to drought stress and recovery in switchgrass (<i>Panicum virgatum</i> L.). <i>BMC Genomics</i> , 2014 , 15, 527	4.5	63
54	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
53	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
52	Adaptations between ecotypes and along environmental gradients in <i>Panicum virgatum</i> . <i>American Naturalist</i> , 2014 , 183, 682-92	3.7	68
51	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
50	The physiological basis for genetic variation in water use efficiency and carbon isotope composition in Arabidopsis thaliana. <i>Photosynthesis Research</i> , 2014 , 119, 119-29	3.7	57
49	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
48	Development of a next-generation NIL library in Arabidopsis thaliana for dissecting complex traits. <i>BMC Genomics</i> , 2013 , 14, 655	4.5	18
47	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
46	Natural variation and genetic constraints on drought tolerance. <i>Current Opinion in Plant Biology</i> , 2013 , 16, 274-81	9.9	97
45	Pleiotropy of FRIGIDA enhances the potential for multivariate adaptation. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2013 , 280, 20131043	4.4	86
44	A population genetic transect of <i>Panicum hallii</i> (Poaceae). <i>American Journal of Botany</i> , 2013 , 100, 592-601	10.7	11
43	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

42	Arabidopsis ECERIFERUM9 involvement in cuticle formation and maintenance of plant water status. <i>Plant Physiology</i> , 2012 , 159, 930-44	6.6	123
41	Characterizing genomic variation of Arabidopsis thaliana: the roles of geography and climate. <i>Molecular Ecology</i> , 2012 , 21, 5512-29	5.7	144
40	Microsatellite markers for the native Texas perennial grass, Panicum hallii (Poaceae). <i>American Journal of Botany</i> , 2012 , 99, e114-6	2.7	7
39	Intron-mediated alternative splicing of Arabidopsis P5CS1 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
38	Physiological genomics of response to soil drying in diverse Arabidopsis accessions. <i>Plant Cell</i> , 2012 , 24, 893-914	11.6	111
37	Population differentiation in Daphnia alters community assembly in experimental ponds. <i>American Naturalist</i> , 2011 , 177, 314-22	3.7	8
36	Drought, metabolites, and Arabidopsis 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
35	Identification and characterization of nuclear microsatellite loci for multiple species of chorus frogs (Pseudacris) for population genetic analyses. <i>Conservation Genetics Resources</i> , 2011 , 3, 233-237	0.8	7
34	Neuroendocrine Effects of Developmental PCB Exposure, with Particular Reference to Hypothalamic Gene Expression. <i>Research and Perspectives in Endocrine Interactions</i> , 2011 , 1-21		
33	Exploring genetic and expression differences between physiologically extreme ecotypes: comparative genomic hybridization and gene expression studies of Kas-1 and Tsu-1 accessions of Arabidopsis thaliana. <i>Plant, Cell and Environment</i> , 2010 , 33, 1268-84	8.4	37
32	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
31	Substantial deletion overlap among divergent Arabidopsis genomes revealed by intersection of short reads and tiling arrays. <i>Genome Biology</i> , 2010 , 11, R4	18.3	30
30	Developmental profiles of neuroendocrine gene expression in the preoptic area of male rats. <i>Endocrinology</i> , 2009 , 150, 2308-16	4.8	40
29	Genetic variation in Arabidopsis thaliana for night-time leaf conductance. <i>Plant, Cell and Environment</i> , 2008 , 31, 1170-8	8.4	58
28	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
27	Heritability and correlation structure of nectar and floral morphology traits in Nicotiana glauca. <i>Evolution; International Journal of Organic Evolution</i> , 2008 , 62, 1738-50	3.8	35
26	Genetics of drought adaptation in Arabidopsis thaliana 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
25	Isolation and characterization of nuclear microsatellite loci for the common green darner dragonfly Anax junius (Odonata: Aeshnidae) to constrain patterns of phenotypic and spatial diversity. <i>Molecular Ecology Notes</i> , 2007 , 7, 845-847		5

24	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
23	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
22	Mapping quantitative trait loci in multiple populations of <i>Arabidopsis thaliana</i> identifies natural allelic variation for trichome density. <i>Genetics</i> , 2005 , 169, 1649-58	4	79
21	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
20	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
19	QUANTITATIVE TRAIT LOCI AFFECTING $\delta^{13}C$ AND RESPONSE TO DIFFERENTIAL WATER AVAILABILITY IN <i>ARABIDOPSIS THALIANA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 81-96	3.8	64
18	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
17	Epistasis and genotype-environment interaction for quantitative trait loci affecting flowering time in <i>Arabidopsis thaliana</i> . <i>Genetica</i> , 2005 , 123, 87-105	1.5	58
16	QUANTITATIVE TRAIT LOCI AFFECTING $\delta^{13}C$ 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
15	Quantitative trait loci affecting $\delta^{13}C$ and response to differential water availability in <i>Arabidopsis thaliana</i> . <i>Evolution; International Journal of Organic Evolution</i> , 2005 , 59, 81-96	3.8	69
14	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
13	The evolution of tolerance to damage in <i>Gentianella campestris</i> : natural selection and the quantitative genetics of tolerance. <i>Evolutionary Ecology</i> , 2000 , 14, 393	1.8	59
12	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
11	DOES EARLY SEASON BROWSING INFLUENCE THE EFFECT OF SELF-POLLINATION IN SCARLET GILIA?. <i>Ecology</i> , 2000 , 81, 41-48	4.6	16
10	Quantitative trait loci for floral morphology in <i>Arabidopsis thaliana</i> . <i>Genetics</i> , 2000 , 156, 1379-92	4	85
9	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
8	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
7	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

6	Pollen and Resource Limitation of Compensation to Herbivory in Scarlet Gilia, <i>Ipomopsis aggregata</i> . <i>Ecology</i> , 1997 , 78, 1684	4.6	18
5	Regrowth Following Herbivory in <i>Ipomopsis aggregata</i> : Compensation but not Overcompensation. <i>American Naturalist</i> , 1996 , 148, 744-755	3.7	73
4	Artificial Microbiome-Selection to Engineer Microbiomes That Confer Salt-Tolerance to Plants		19
3	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
2	The genetic architecture of shoot and root trait divergence between upland and lowland ecotypes of a perennial grass		1
1	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