

Matthew E Hudson

List of Publications by Year in descending order

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80
papers

7,449
citations

76326

40
h-index

62596

80
g-index

85
all docs

85
docs citations

85
times ranked

10106
citing authors

#	ARTICLE	IF	CITATIONS
1	Copy Number Variation of Multiple Genes at <i>Rhg1</i> Mediates Nematode Resistance in Soybean. <i>Science</i> , 2012, 338, 1206-1209.	12.6	535
2	Allele-defined genome of the autopolyploid sugarcane <i>Saccharum spontaneum</i> L.. <i>Nature Genetics</i> , 2018, 50, 1565-1573.	21.4	463
3	PHYTOCHROME-INTERACTING FACTOR 1 Is a Critical bHLH Regulator of Chlorophyll Biosynthesis. <i>Science</i> , 2004, 305, 1937-1941.	12.6	434
4	Finding the missing honey bee genes: lessons learned from a genome upgrade. <i>BMC Genomics</i> , 2014, 15, 86.	2.8	375
5	Genomic signatures of evolutionary transitions from solitary to group living. <i>Science</i> , 2015, 348, 1139-1143.	12.6	357
6	The genomes of two key bumblebee species with primitive eusocial organization. <i>Genome Biology</i> , 2015, 16, 76.	8.8	330
7	Genome of the long-living sacred lotus (<i>Nelumbo nucifera</i> Gaertn.). <i>Genome Biology</i> , 2013, 14, R41.	9.6	329
8	Sequencing breakthroughs for genomic ecology and evolutionary biology. <i>Molecular Ecology Resources</i> , 2008, 8, 3-17.	4.8	326
9	Wasp Gene Expression Supports an Evolutionary Link Between Maternal Behavior and Eusociality. <i>Science</i> , 2007, 318, 441-444.	12.6	251
10	Identification of Promoter Motifs Involved in the Network of Phytochrome A-Regulated Gene Expression by Combined Analysis of Genomic Sequence and Microarray Data. <i>Plant Physiology</i> , 2003, 133, 1605-1616.	4.8	218
11	Expression profiling of phyB mutant demonstrates substantial contribution of other phytochromes to red-light-regulated gene expression during seedling de-etiolation. <i>Plant Journal</i> , 2004, 38, 725-739.	5.7	210
12	Mechanical Stress Induces Biotic and Abiotic Stress Responses via a Novel cis-Element. <i>PLoS Genetics</i> , 2007, 3, e172.	3.5	205
13	Genes involved in convergent evolution of eusociality in bees. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 7472-7477.	7.1	199
14	The FHY3 and FAR1 genes encode transposase-related proteins involved in regulation of gene expression by the phytochrome A-signaling pathway. <i>Plant Journal</i> , 2003, 34, 453-471.	5.7	179
15	Microcollinearity between autopolyploid sugarcane and diploid sorghum genomes. <i>BMC Genomics</i> , 2010, 11, 261.	2.8	175
16	From association to prediction: statistical methods for the dissection and selection of complex traits in plants. <i>Current Opinion in Plant Biology</i> , 2015, 24, 110-118.	7.1	166
17	Repeat associated small RNAs vary among parents and following hybridization in maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10444-10449.	7.1	139
18	Sentieon DNaseq Variant Calling Workflow Demonstrates Strong Computational Performance and Accuracy. <i>Frontiers in Genetics</i> , 2019, 10, 736.	2.3	131

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19	Endogenous, Tissue-Specific Short Interfering RNAs Silence the Chalcone Synthase Gene Family in <i>Glycine max</i> Seed Coats. <i>Plant Cell</i> , 2009, 21, 3063-3077.	6.6	126
20	Brain transcriptomic analysis in paper wasps identifies genes associated with behaviour across social insect lineages. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2010, 277, 2139-2148.	2.6	121
21	A genomic analysis of the archaeal system <i>Ignicoccus hospitalis</i> - <i>Nanoarchaeum equitans</i> . <i>Genome Biology</i> , 2008, 9, R158.	8.8	104
22	Genomic and small RNA sequencing of <i>Miscanthus Ã— giganteus</i> shows the utility of sorghum as a reference genome sequence for Andropogoneae grasses. <i>Genome Biology</i> , 2010, 11, R12.	9.6	93
23	Fine mapping the soybean aphid resistance gene <i>Rag1</i> in soybean. <i>Theoretical and Applied Genetics</i> , 2010, 120, 1063-1071.	3.6	87
24	A framework genetic map for <i>Miscanthus sinensis</i> from RNAseq-based markers shows recent tetraploidy. <i>BMC Genomics</i> , 2012, 13, 142.	2.8	87
25	Global repeat discovery and estimation of genomic copy number in a large, complex genome using a high-throughput 454 sequence survey. <i>BMC Genomics</i> , 2007, 8, 132.	2.8	84
26	Sympatric ecological speciation meets pyrosequencing: sampling the transcriptome of the apple maggot <i>Rhagoletis pomonella</i> . <i>BMC Genomics</i> , 2009, 10, 633.	2.8	81
27	A comparison of genotyping-by-sequencing analysis methods on low-coverage crop datasets shows advantages of a new workflow, GB-eaSy. <i>BMC Bioinformatics</i> , 2017, 18, 586.	2.6	80
28	Fine mapping of the soybean aphid-resistance gene <i>Rag2</i> in soybean PI 200538. <i>Theoretical and Applied Genetics</i> , 2010, 121, 599-610.	3.6	76
29	Cytochrome P450 Monooxygenases as Reporters for Circadian-Regulated Pathways. <i>Plant Physiology</i> , 2009, 150, 858-878.	4.8	75
30	A Fluorescence <i>In Situ</i> Hybridization System for Karyotyping Soybean. <i>Genetics</i> , 2010, 185, 727-744.	2.9	70
31	Genome biology of the paleotetraploid perennial biomass crop <i>Miscanthus</i> . <i>Nature Communications</i> , 2020, 11, 5442.	12.8	67
32	Evolution and selection of <i>hg1</i> , a copy number variant nematode resistance locus. <i>Molecular Ecology</i> , 2015, 24, 1774-1791.	3.9	66
33	Intronic Non-CG DNA hydroxymethylation and alternative mRNA splicing in honey bees. <i>BMC Genomics</i> , 2013, 14, 666.	2.8	62
34	Simulating Next-Generation Sequencing Datasets from Empirical Mutation and Sequencing Models. <i>PLoS ONE</i> , 2016, 11, e0167047.	2.5	59
35	Residues Clustered in the Light-Sensing Knot of Phytochrome B are Necessary for Conformer-Specific Binding to Signaling Partner PIF3. <i>PLoS Genetics</i> , 2009, 5, e1000352.	3.5	58
36	The genome of the soybean cyst nematode (<i>Heterodera glycines</i>) reveals complex patterns of duplications involved in the evolution of parasitism genes. <i>BMC Genomics</i> , 2019, 20, 119.	2.8	55

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37	Identification of Multiple Phytotoxins Produced by <i>Fusarium virguliforme</i> Including a Phytotoxic Effector (FvNIS1) Associated With Sudden Death Syndrome Foliar Symptoms. <i>Molecular Plant-Microbe Interactions</i> , 2016, 29, 96-108.	2.6	53
38	Genome-wide association mapping of resistance to a Brazilian isolate of <i>Sclerotinia sclerotiorum</i> in soybean genotypes mostly from Brazil. <i>BMC Genomics</i> , 2017, 18, 849.	2.8	52
39	Contribution of transcriptional regulation to natural variations in <i>Arabidopsis</i> . <i>Genome Biology</i> , 2005, 6, R32.	9.6	47
40	The Inheritance Pattern of 24 nt siRNA Clusters in <i>Arabidopsis</i> Hybrids Is Influenced by Proximity to Transposable Elements. <i>PLoS ONE</i> , 2012, 7, e47043.	2.5	43
41	Analysis of a Horizontally Transferred Pathway Involved in Vitamin B6 Biosynthesis from the Soybean Cyst Nematode <i>Heterodera glycines</i> . <i>Molecular Biology and Evolution</i> , 2008, 25, 2085-2098.	8.9	42
42	A Classification of Basic Helix-Loop-Helix Transcription Factors of Soybean. <i>International Journal of Genomics</i> , 2015, 2015, 1-10.	1.6	40
43	Fine mapping and cloning of the major seed protein quantitative trait loci on soybean chromosome 20. <i>Plant Journal</i> , 2022, 110, 114-128.	5.7	36
44	Evolutionary divergence of phytochrome protein function in <i>Zea mays</i> PIF3 signaling. <i>Journal of Experimental Botany</i> , 2016, 67, 4231-4240.	4.8	34
45	The genetics of phytochrome signalling in <i>Arabidopsis</i> . <i>Seminars in Cell and Developmental Biology</i> , 2000, 11, 475-483.	5.0	33
46	A soft selective sweep during rapid evolution of gentle behaviour in an Africanized honeybee. <i>Nature Communications</i> , 2017, 8, 1550.	12.8	33
47	Impact of <i>Rhg1</i> copy number, type, and interaction with <i>Rhg4</i> on resistance to <i>Heterodera glycines</i> in soybean. <i>Theoretical and Applied Genetics</i> , 2016, 129, 2403-2412.	3.6	32
48	Human cell toxicogenomic analysis of bromoacetic acid: A regulated drinking water disinfection by-product. <i>Environmental and Molecular Mutagenesis</i> , 2010, 51, 205-214.	2.2	31
49	An efficient method for measuring copy number variation applied to improvement of nematode resistance in soybean. <i>Plant Journal</i> , 2016, 88, 143-153.	5.7	31
50	Divergent patterns of endogenous small RNA populations from seed and vegetative tissues of <i>Glycine max</i> . <i>BMC Plant Biology</i> , 2012, 12, 177.	3.6	30
51	Bacterial steroid-17,20-desmolase is a taxonomically rare enzymatic pathway that converts prednisone to 1,4-androstenediene-3,11,17-trione, a metabolite that causes proliferation of prostate cancer cells. <i>Journal of Steroid Biochemistry and Molecular Biology</i> , 2020, 199, 105567.	2.5	28
52	A detailed gene expression study of the <i>Miscanthus</i> genus reveals changes in the transcriptome associated with the rejuvenation of spring rhizomes. <i>BMC Genomics</i> , 2013, 14, 864.	2.8	27
53	Rapid Genotyping of Soybean Cultivars Using High Throughput Sequencing. <i>PLoS ONE</i> , 2011, 6, e24811.	2.5	25
54	SNAREs bind the <i>Rhg1</i> SNAP and mediate soybean cyst nematode resistance. <i>Plant Journal</i> , 2020, 104, 318-331.	5.7	24

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55	Genomic regions influencing aggressive behavior in honey bees are defined by colony allele frequencies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17135-17141.	7.1	24
56	Microarray-Based Genetic Mapping Using Soybean Near-Isogenic Lines and Generation of SNP Markers in the Rag1 Aphid-Resistance Interval. <i>Plant Genome</i> , 2008, 1, .	2.8	23
57	Rapid, Organ-Specific Transcriptional Responses to Light Regulate Photomorphogenic Development in Dicot Seedlings. <i>Plant Physiology</i> , 2011, 156, 2124-2140.	4.8	18
58	Development of microsatellite markers in autopolyploid sugarcane and comparative analysis of conserved microsatellites in sorghum and sugarcane. <i>Molecular Breeding</i> , 2012, 30, 661-669.	2.1	18
59	A survey of the small RNA population during far-red light-induced apical hook opening. <i>Frontiers in Plant Science</i> , 2014, 5, 156.	3.6	18
60	Transposable elements, mRNA expression level and strand-specificity of small RNAs are associated with non-additive inheritance of gene expression in hybrid plants. <i>BMC Plant Biology</i> , 2015, 15, 168.	3.6	17
61	Early transcriptional responses to soybean cyst nematode HG Type 0 show genetic differences among resistant and susceptible soybeans. <i>Theoretical and Applied Genetics</i> , 2020, 133, 87-102.	3.6	17
62	W12 <i>Rhg1</i> interacts with DELLAs and mediates soybean cyst nematode resistance through hormone pathways. <i>Plant Biotechnology Journal</i> , 2022, 20, 283-296.	8.3	17
63	Effects of Selective Genetic Introgression from Wild Soybean to Soybean. <i>Crop Science</i> , 2014, 54, 2683-2695.	1.8	14
64	Identification of nutrient partitioning genes participating in rice grain filling by singular value decomposition (SVD) of genome expression data. <i>BMC Genomics</i> , 2003, 4, 26.	2.8	13
65	Mapping of new quantitative trait loci for sudden death syndrome and soybean cyst nematode resistance in two soybean populations. <i>Theoretical and Applied Genetics</i> , 2018, 131, 1047-1062.	3.6	13
66	<i>Nicotiana plumbaginifolia</i> hlg mutants have a mutation in a PHYB-type phytochrome gene: they have elongated hypocotyls in red light, but are not elongated as adult plants. <i>Plant Journal</i> , 1997, 12, 1091-1101.	5.7	12
67	CROPSR: an automated platform for complex genome-wide CRISPR gRNA design and validation. <i>BMC Bioinformatics</i> , 2022, 23, 74.	2.6	12
68	The phytochrome B encoded by the HLG locus of <i>Nicotiana plumbaginifolia</i> is required for detection of photoperiod: hlg mutants show altered regulation of flowering and circadian movement. <i>Plant Journal</i> , 1998, 15, 281-287.	5.7	11
69	Analysis of Gene Expression during Brassica Seed Germination Using a Cross-Species Microarray Platform. <i>Crop Science</i> , 2007, 47, S-96.	1.8	11
70	The Basic Helix-Loop-Helix Transcription Factor Family in the Sacred Lotus, <i>Nelumbo Nucifera</i> . <i>Tropical Plant Biology</i> , 2014, 7, 65-70.	1.9	11
71	Identification of missing variants by combining multiple analytic pipelines. <i>BMC Bioinformatics</i> , 2018, 19, 139.	2.6	10
72	A chromosomal assembly of the soybean cyst nematode genome. <i>Molecular Ecology Resources</i> , 2021, 21, 2407-2422.	4.8	10

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73	Soybean Cyst Nematode Resistance Quantitative Trait Locus <i>qSCN-006</i> Alters the Expression of a β -SNAP Protein. <i>Molecular Plant-Microbe Interactions</i> , 2021, 34, 1433-1445.	2.6	10
74	Design considerations for workflow management systems use in production genomics research and the clinic. <i>Scientific Reports</i> , 2021, 11, 21680.	3.3	7
75	Impact of multiple selective breeding programs on genetic diversity in soybean germplasm. <i>Theoretical and Applied Genetics</i> , 2022, 135, 1591-1602.	3.6	7
76	Genome Sequence of the Soybean Cyst Nematode (<i>Heterodera glycines</i>) Endosymbiont <i>Candidatus Cardinium hertigi</i> Strain cHgTN10. <i>Genome Announcements</i> , 2018, 6, .	0.8	6
77	Genetic Variation for Seed Oil Biosynthesis in Soybean. <i>Plant Molecular Biology Reporter</i> , 2021, 39, 700-709.	1.8	5
78	Impact of variant-level batch effects on identification of genetic risk factors in large sequencing studies. <i>PLoS ONE</i> , 2021, 16, e0249305.	2.5	5
79	Plant genomes do a balancing act. <i>Molecular Ecology</i> , 2009, 18, 2743-2745.	3.9	3
80	Photoreceptor Biotechnology. , 0, , 267-289.		1