

Noah Fahlgren

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

14,587
citations

87888

38
h-index

155660

55
g-index

84
all docs

84
docs citations

84
times ranked

14531
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome sequencing and analysis of the model grass <i>Brachypodium distachyon</i> . <i>Nature</i> , 2010, 463, 763-768.	27.8	1,685
2	Genome sequence and analysis of the Irish potato famine pathogen <i>Phytophthora infestans</i> . <i>Nature</i> , 2009, 461, 393-398.	27.8	1,405
3	High-Throughput Sequencing of <i>Arabidopsis</i> microRNAs: Evidence for Frequent Birth and Death of MIRNA Genes. <i>PLoS ONE</i> , 2007, 2, e219.	2.5	1,100
4	The <i>Arabidopsis lyrata</i> genome sequence and the basis of rapid genome size change. <i>Nature Genetics</i> , 2011, 43, 476-481.	21.4	814
5	Specificity of ARGONAUTE7-miR390 Interaction and Dual Functionality in TAS3 Trans-Acting siRNA Formation. <i>Cell</i> , 2008, 133, 128-141.	28.9	712
6	Evolution and Functional Diversification of <i>MIRNA</i> Genes. <i>Plant Cell</i> , 2011, 23, 431-442.	6.6	645
7	Expression of <i>Arabidopsis</i> MIRNA Genes. <i>Plant Physiology</i> , 2005, 138, 2145-2154.	4.8	626
8	Lights, camera, action: high-throughput plant phenotyping is ready for a close-up. <i>Current Opinion in Plant Biology</i> , 2015, 24, 93-99.	7.1	567
9	Repression of <i>AUXIN RESPONSE FACTOR10</i> by <i>microRNA160</i> is critical for seed germination and post-germination stages. <i>Plant Journal</i> , 2007, 52, 133-146.	5.7	548
10	Regulation of <i>AUXIN RESPONSE FACTOR3</i> by TAS3 ta-siRNA Affects Developmental Timing and Patterning in <i>Arabidopsis</i> . <i>Current Biology</i> , 2006, 16, 939-944.	3.9	545
11	PRG-1 and 21U-RNAs Interact to Form the piRNA Complex Required for Fertility in <i>C. elegans</i> . <i>Molecular Cell</i> , 2008, 31, 67-78.	9.7	528
12	Genome-Wide Profiling and Analysis of <i>Arabidopsis</i> siRNAs. <i>PLoS Biology</i> , 2007, 5, e57.	5.6	473
13	<i>Arabidopsis</i> RNA-Dependent RNA Polymerases and Dicer-Like Proteins in Antiviral Defense and Small Interfering RNA Biogenesis during <i>Turnip Mosaic Virus</i> Infection. <i>Plant Cell</i> , 2010, 22, 481-496.	6.6	454
14	Distinct Argonaute-Mediated 22G-RNA Pathways Direct Genome Surveillance in the <i>C. elegans</i> Germline. <i>Molecular Cell</i> , 2009, 36, 231-244.	9.7	449
15	Unique functionality of 22-nt miRNAs in triggering RDR6-dependent siRNA biogenesis from target transcripts in <i>Arabidopsis</i> . <i>Nature Structural and Molecular Biology</i> , 2010, 17, 997-1003.	8.2	448
16	Genome-Wide Analysis of the RNA-DEPENDENT RNA POLYMERASE6/DICER-LIKE4 Pathway in <i>Arabidopsis</i> Reveals Dependency on miRNA- and tasiRNA-Directed Targeting. <i>Plant Cell</i> , 2007, 19, 926-942.	6.6	381
17	Functional Analysis of Three <i>Arabidopsis</i> ARGONAUTES Using Slicer-Defective Mutants. <i>Plant Cell</i> , 2012, 24, 3613-3629.	6.6	249
18	miRNA Target Prediction in Plants. <i>Methods in Molecular Biology</i> , 2010, 592, 51-57.	0.9	246

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19	MicroRNA Gene Evolution in <i>Arabidopsis lyrata</i> and <i>Arabidopsis thaliana</i> . <i>Plant Cell</i> , 2010, 22, 1074-1089.	6.6	234
20	PlantCV v2: Image analysis software for high-throughput plant phenotyping. <i>PeerJ</i> , 2017, 5, e4088.	2.0	211
21	A Versatile Phenotyping System and Analytics Platform Reveals Diverse Temporal Responses to Water Availability in <i>Setaria</i> . <i>Molecular Plant</i> , 2015, 8, 1520-1535.	8.3	202
22	AGO1-miR173 complex initiates phased siRNA formation in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20055-20062.	7.1	178
23	Roles and Programming of <i>Arabidopsis</i> ARGONAUTE Proteins during Turnip Mosaic Virus Infection. <i>PLoS Pathogens</i> , 2015, 11, e1004755.	4.7	175
24	Identification of <i>MIR390a</i> precursor processing-defective mutants in <i>Arabidopsis</i> by direct genome sequencing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 466-471.	7.1	137
25	CG gene body DNA methylation changes and evolution of duplicated genes in cassava. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 13729-13734.	7.1	129
26	<i>mut-16</i> and other <i>mutator</i> class genes modulate 22G and 26G siRNA pathways in <i>Caenorhabditis elegans</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1201-1208.	7.1	128
27	New Generation of Artificial MicroRNA and Synthetic Trans-Acting Small Interfering RNA Vectors for Efficient Gene Silencing in <i>Arabidopsis</i> . <i>Plant Physiology</i> , 2014, 165, 15-29.	4.8	119
28	Genetic Diversity and Population Structure of a <i>Camelina sativa</i> Spring Panel. <i>Frontiers in Plant Science</i> , 2019, 10, 184.	3.6	118
29	Computational and analytical framework for small RNA profiling by high-throughput sequencing. <i>Rna</i> , 2009, 15, 992-1002.	3.5	112
30	Genome-wide profiling of <i>Populus</i> small RNAs. <i>BMC Genomics</i> , 2009, 10, 620.	2.8	90
31	<i>Phytophthora</i> Have Distinct Endogenous Small RNA Populations That Include Short Interfering and microRNAs. <i>PLoS ONE</i> , 2013, 8, e77181.	2.5	88
32	The ERI-6/7 Helicase Acts at the First Stage of an siRNA Amplification Pathway That Targets Recent Gene Duplications. <i>PLoS Genetics</i> , 2011, 7, e1002369.	3.5	74
33	Update of ASRP: the <i>Arabidopsis</i> Small RNA Project database. <i>Nucleic Acids Research</i> , 2007, 36, D982-D985.	14.5	70
34	Raspberry Pi-powered imaging for plant phenotyping. <i>Applications in Plant Sciences</i> , 2018, 6, e1031.	2.1	68
35	Parallel analysis of RNA ends enhances global investigation of microRNAs and target RNAs of <i>Brachypodium distachyon</i> . <i>Genome Biology</i> , 2013, 14, R145.	9.6	67
36	P-SAMS: a web site for plant artificial microRNA and synthetic trans-acting small interfering RNA design. <i>Bioinformatics</i> , 2016, 32, 157-158.	4.1	67

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37	The <i>Caenorhabditis elegans</i> RDE-10/RDE-11 Complex Regulates RNAi by Promoting Secondary siRNA Amplification. <i>Current Biology</i> , 2012, 22, 881-890.	3.9	49
38	Components of Water Use Efficiency Have Unique Genetic Signatures in the Model C ₄ Grass <i>Setaria</i> . <i>Plant Physiology</i> , 2018, 178, 699-715.	4.8	47
39	Highly specific gene silencing in a monocot species by artificial microRNA ^s derived from chimeric miRNA ^{precursors} . <i>Plant Journal</i> , 2015, 82, 1061-1075.	5.7	45
40	High-throughput phenotyping. <i>American Journal of Botany</i> , 2017, 104, 505-508.	1.7	44
41	Classifying cold stress responses of inbred maize seedlings using RGB imaging. <i>Plant Direct</i> , 2019, 3, e00104.	1.9	34
42	Vision, challenges and opportunities for a Plant Cell Atlas. <i>ELife</i> , 2021, 10, .	6.0	31
43	An automated, high-throughput method for standardizing image color profiles to improve image-based plant phenotyping. <i>PeerJ</i> , 2018, 6, e5727.	2.0	31
44	TERRA-REF Data Processing Infrastructure. , 2018, , .		22
45	Genome-wide association study (GWAS) of leaf cuticular wax components in <i>Camelina sativa</i> identifies genetic loci related to intracellular wax transport. <i>BMC Plant Biology</i> , 2019, 19, 187.	3.6	22
46	Antiviral ARGONAUTES Against <i>Turnip Crinkle Virus</i> Revealed by Image-Based Trait Analysis. <i>Plant Physiology</i> , 2019, 180, 1418-1435.	4.8	22
47	Heating quinoa shoots results in yield loss by inhibiting fruit production and delaying maturity. <i>Plant Journal</i> , 2020, 102, 1058-1073.	5.7	19
48	The Next Generation of Training for Arabidopsis Researchers: Bioinformatics and Quantitative Biology. <i>Plant Physiology</i> , 2017, 175, 1499-1509.	4.8	11
49	Picturing the future of food. <i>The Plant Phenome Journal</i> , 2021, 4, e20014.	2.0	11
50	Naïve Bayes pixel-level plant segmentation. , 2016, , .		8
51	Heat stress changes mineral nutrient concentrations in <i>Chenopodium quinoa</i> seed. <i>Plant Direct</i> , 2022, 6, e384.	1.9	8
52	Preparation of Multiplexed Small RNA Libraries from Plants. <i>Bio-protocol</i> , 2014, 4, .	0.4	7
53	Plant scientists: GM technology is safe. <i>Science</i> , 2016, 351, 824-824.	12.6	5
54	Early Drought Plant Stress Detection with Bi-Directional Long-Term Memory Networks. <i>Photogrammetric Engineering and Remote Sensing</i> , 2018, 84, 459-468.	0.6	5

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55	NAPPN: Who We Are, Where We Are Going, and Why You Should Join Us!. The Plant Phenome Journal, 2019, 2, 1-4.	2.0	4
56	A protocol for Chenopodium quinoa pollen germination. Plant Methods, 2022, 18, 65.	4.3	3
57	What Does TERRA-REF's High Resolution, Multi Sensor Plant Sensing Public Domain Data Offer the Computer Vision Community?. , 2021, , .		1
58	First Plant Cell Atlas symposium report. Plant Direct, 2022, 6, .	1.9	1