Matthew W Vaughn

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3058202/publications.pdf

Version: 2024-02-01



#	Article	lF	CITATIONS
1	The B73 Maize Genome: Complexity, Diversity, and Dynamics. Science, 2009, 326, 1112-1115.	12.6	3,612
2	Role of transposable elements in heterochromatin and epigenetic control. Nature, 2004, 430, 471-476.	27.8	1,103
3	Epigenetic Reprogramming and Small RNA Silencing of Transposable Elements in Pollen. Cell, 2009, 136, 461-472.	28.9	908
4	Comparative Functional Genomics of the Fission Yeasts. Science, 2011, 332, 930-936.	12.6	458
5	Epigenetic Natural Variation in Arabidopsis thaliana. PLoS Biology, 2007, 5, e174.	5.6	400
6	The iPlant Collaborative: Cyberinfrastructure for Plant Biology. Frontiers in Plant Science, 2011, 2, 34.	3.6	396
7	The iPlant Collaborative: Cyberinfrastructure for Enabling Data to Discovery for the Life Sciences. PLoS Biology, 2016, 14, e1002342.	5.6	306
8	Epigenetic and Genetic Influences on DNA Methylation Variation in Maize Populations. Plant Cell, 2013, 25, 2783-2797.	6.6	227
9	Araport: the Arabidopsis Information Portal. Nucleic Acids Research, 2015, 43, D1003-D1009.	14.5	193
10	Sucrose-mediated transcriptional regulation of sucrose symporter activity in the phloem. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 10876-10880.	7.1	191
11	Parent-of-Origin Effects on Gene Expression and DNA Methylation in the Maize Endosperm. Plant Cell, 2011, 23, 4221-4233.	6.6	189
12	Argonaute Slicing Is Required for Heterochromatic Silencing and Spreading. Science, 2006, 313, 1134-1137.	12.6	182
13	RNA-directed DNA methylation enforces boundaries between heterochromatin and euchromatin in the maize genome. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 14728-14733.	7.1	179
14	Epigenomic Consequences of Immortalized Plant Cell Suspension Culture. PLoS Biology, 2008, 6, e302.	5.6	179
15	Spreading of Heterochromatin Is Limited to Specific Families of Maize Retrotransposons. PLoS Genetics, 2012, 8, e1003127.	3.5	166
16	Genetic Perturbation of the Maize Methylome. Plant Cell, 2014, 26, 4602-4616.	6.6	158
17	Heritable Epigenetic Variation among Maize Inbreds. PLoS Genetics, 2011, 7, e1002372.	3.5	150
18	MicroRNA-Targeted and Small Interfering RNA–Mediated mRNA Degradation Is Regulated by Argonaute, Dicer, and RNA-Dependent RNA Polymerase in Arabidopsis. Plant Cell, 2006, 18, 1559-1574.	6.6	141

2

MATTHEW W VAUGHN

#	Article	IF	CITATIONS
19	Genomic Distribution of H3K9me2 and DNA Methylation in a Maize Genome. PLoS ONE, 2014, 9, e105267.	2.5	137
20	Comprehensive analysis of imprinted genes in maize reveals allelic variation for imprinting and limited conservation with other species. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19639-19644.	7.1	131
21	Lid2 Is Required for Coordinating H3K4 and H3K9 Methylation of Heterochromatin and Euchromatin. Cell, 2008, 135, 272-283.	28.9	127
22	Jetstream. , 2015, , .		121
23	S. pombe LSD1 Homologs Regulate Heterochromatin Propagation and Euchromatic Gene Transcription. Molecular Cell, 2007, 26, 89-101.	9.7	102
24	Genomic Distribution of Maize Facultative Heterochromatin Marked by Trimethylation of H3K27. Plant Cell, 2013, 25, 780-793.	6.6	91
25	Genomeâ€wide transposon tagging reveals locationâ€dependent effects on transcription and chromatin organization in Arabidopsis. Plant Journal, 2008, 55, 514-525.	5.7	80
26	CENP-B preserves genome integrity at replication forks paused by retrotransposon LTR. Nature, 2011, 469, 112-115.	27.8	79
27	Protein phosphorylation plays a key role in sucrose-mediated transcriptional regulation of a phloem-specific proton?sucrose symporter. Planta, 2003, 217, 483-489.	3.2	67
28	Arabidopsis thaliana Chromosome 4 Replicates in Two Phases That Correlate with Chromatin State. PLoS Genetics, 2010, 6, e1000982.	3.5	65
29	Examining the Causes and Consequences of Context-Specific Differential DNA Methylation in Maize. Plant Physiology, 2015, 168, 1262-1274.	4.8	62
30	Mapping epigenetic mutations in fission yeast using whole-genome next-generation sequencing. Genome Research, 2009, 19, 1077-1083.	5.5	44
31	An â€~ <scp>eFP</scp> ‣eq Browser' for visualizing and exploring <scp>RNA</scp> sequencing data. Plant Journal, 2019, 100, 641-654.	5.7	41
32	ThaleMine: A Warehouse for Arabidopsis Data Integration and Discovery. Plant and Cell Physiology, 2017, 58, pcw200.	3.1	39
33	Genome-Wide Analysis of the Arabidopsis Replication Timing Program. Plant Physiology, 2018, 176, 2166-2185.	4.8	36
34	It's a Small RNA World, After All. Science, 2005, 309, 1525-1526.	12.6	29
35	The Fission Yeast Jmj2 Reverses Histone H3 Lysine 4 Trimethylation. Journal of Biological Chemistry, 2007, 282, 21662-21670.	3.4	28
36	Efficient parallel and out of core algorithms for constructing large bi-directed de Bruijn graphs. BMC Bioinformatics, 2010, 11, 560.	2.6	28

#	Article	IF	CITATIONS
37	Variation in DNA Methylation Patterns is More Common among Maize Inbreds than among Tissues. Plant Genome, 2013, 6, plantgenome2012.06.0009.	2.8	28

$_{38}$ Genomic Analysis of the DNA Replication Timing Program during Mitotic S Phase in Maize (<i>Zea) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50

39	Finding the Right Template: RNA Pol IV, a Plant-Specific RNA Polymerase. Molecular Cell, 2005, 17, 754-756.	9.7	21
40	In Vivo Mapping of <i>Arabidopsis</i> Scaffold/Matrix Attachment Regions Reveals Link to Nucleosome-Disfavoring Poly(dA:dT) Tracts. Plant Cell, 2014, 26, 102-120.	6.6	19
41	Subtle Perturbations of the Maize Methylome Reveal Genes and Transposons Silenced by Chromomethylase or RNA-Directed DNA Methylation Pathways. G3: Genes, Genomes, Genetics, 2018, 8, 1921-1932.	1.8	19
42	Large-scale design and refinement of stable proteins using sequence-only models. PLoS ONE, 2022, 17, e0265020.	2.5	17
43	Repliscan: a tool for classifying replication timing regions. BMC Bioinformatics, 2017, 18, 362.	2.6	15
44	Jetstream2: Accelerating cloud computing via Jetstream. , 2021, , .		15
45	iVirus 2.0: Cyberinfrastructure-supported tools and data to power DNA virus ecology. ISME Communications, 2021, 1, .	4.2	13
46	Leveraging the national cyberinfrastructure for biomedical research. Journal of the American Medical Informatics Association: JAMIA, 2014, 21, 195-199.	4.4	12
47	Jetstream. , 2016, , .		11
47 48	Jetstream. , 2016, , . The Next Generation of Training for Arabidopsis Researchers: Bioinformatics and Quantitative Biology. Plant Physiology, 2017, 175, 1499-1509.	4.8	11
47 48 49	Jetstream., 2016, , . The Next Generation of Training for Arabidopsis Researchers: Bioinformatics and Quantitative Biology. Plant Physiology, 2017, 175, 1499-1509. Jetstreamâ€"Early operations performance, adoption, and impacts. Concurrency Computation Practice and Experience, 2019, 31, e4683.	4.8 2.2	11 11 10
47 48 49 50	Jetstream., 2016, , . The Next Generation of Training for Arabidopsis Researchers: Bioinformatics and Quantitative Biology. Plant Physiology, 2017, 175, 1499-1509. Jetstream—Early operations performance, adoption, and impacts. Concurrency Computation Practice and Experience, 2019, 31, e4683. Araport: an application platform for data discovery. Concurrency Computation Practice and Experience, 2015, 27, 4412-4422.	4.8 2.2 2.2	11 11 10 9
47 48 49 50 51	Jetstream., 2016, , . The Next Generation of Training for Arabidopsis Researchers: Bioinformatics and Quantitative Biology. Plant Physiology, 2017, 175, 1499-1509. Jetstream—Early operations performance, adoption, and impacts. Concurrency Computation Practice and Experience, 2019, 31, e4683. Araport: an application platform for data discovery. Concurrency Computation Practice and Experience, 2015, 27, 4412-4422. Arabidopsis DNA Replication Initiates in Intergenic, AT-Rich Open Chromatin. Plant Physiology, 2020, 183, 206-220.	4.8 2.2 2.2 4.8	11 11 10 9 9
47 48 49 50 51 52	Jetstream., 2016, , . The Next Generation of Training for Arabidopsis Researchers: Bioinformatics and Quantitative Biology. Plant Physiology, 2017, 175, 1499-1509. Jetstream—Early operations performance, adoption, and impacts. Concurrency Computation Practice and Experience, 2019, 31, e4683. Araport: an application platform for data discovery. Concurrency Computation Practice and Experience, 2015, 27, 4412-4422. Arabidopsis DNA Replication Initiates in Intergenic, AT-Rich Open Chromatin. Plant Physiology, 2020, 183, 206-220. Discovery of biological networks using an optimized partial correlation coefficient with information theory algorithm on Stampede's Xeon and Xeon Phi processors. Concurrency Computation Practice and Experience, 2014, 26, 2178-2190.	4.8 2.2 2.2 4.8 2.2	 11 11 10 9 9 8
47 48 49 50 51 52 53	Jetstream., 2016, , .The Next Generation of Training for Arabidopsis Researchers: Bioinformatics and Quantitative Biology. Plant Physiology, 2017, 175, 1499-1509.Jetstreamâ€"Early operations performance, adoption, and impacts. Concurrency Computation Practice and Experience, 2019, 31, e4683.Araport: an application platform for data discovery. Concurrency Computation Practice and Experience, 2015, 27, 4412-4422.Arabidopsis DNA Replication Initiates in Intergenic, AT-Rich Open Chromatin. Plant Physiology, 2020, 183, 206-220.Discovery of biological networks using an optimized partial correlation coefficient with information theory algorithm on Stampede's Xeon and Xeon Phi processors. Concurrency Computation Practice and Experience, 2014, 26, 2178-2190.Prediction of whole-cell transcriptional response with machine learning. Bioinformatics, 2022, 38, 404-409.	4.8 2.2 2.2 4.8 2.2 4.1	 11 10 9 9 8 8

#	Article	IF	CITATIONS
55	Comparing DNA replication programs reveals large timing shifts at centromeres of endocycling cells in maize roots. PLoS Genetics, 2020, 16, e1008623.	3.5	4
56	Integrating Jupyter into Research Computing Ecosystems. , 2020, , .		4
57	Replication, Repair, and Reactivation. Developmental Cell, 2005, 9, 724-725.	7.0	3
58	National Center for Genome Analysis support leverages XSEDE to support life science research. , 2013, ,		3
59	Platform for Automated Real-Time High Performance Analytics on Medical Image Data. IEEE Journal of Biomedical and Health Informatics, 2018, 22, 318-324.	6.3	1
60	The Arabidopsis Information Portal: An Application Platform for Data Discovery. , 2014, , .		0
61	Feature frequency profiles for automatic sample identification using PySpark. , 2015, , .		0
62	Large Scale Science on NSF's Frontera System. Computing in Science and Engineering, 2021, 23, 10-13.	1.2	0