

Daniel Zilberman

List of Publications by Year in descending order

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45
papers

13,868
citations

87888

38
h-index

243625

44
g-index

55
all docs

55
docs citations

55
times ranked

10608
citing authors

#	ARTICLE	IF	CITATIONS
1	Genome-Wide Evolutionary Analysis of Eukaryotic DNA Methylation. <i>Science</i> , 2010, 328, 916-919.	12.6	1,598
2	Genetic and Functional Diversification of Small RNA Pathways in Plants. <i>PLoS Biology</i> , 2004, 2, e104.	5.6	1,347
3	Genome-wide analysis of <i>Arabidopsis thaliana</i> DNA methylation uncovers an interdependence between methylation and transcription. <i>Nature Genetics</i> , 2007, 39, 61-69.	21.4	1,257
4	<i>ARGONAUTE4</i> Control of Locus-Specific siRNA Accumulation and DNA and Histone Methylation. <i>Science</i> , 2003, 299, 716-719.	12.6	966
5	The <i>Arabidopsis</i> Nucleosome Remodeler DDM1 Allows DNA Methyltransferases to Access H1-Containing Heterochromatin. <i>Cell</i> , 2013, 153, 193-205.	28.9	914
6	Requirement of CHROMOMETHYLASE3 for Maintenance of CpXpG Methylation. <i>Science</i> , 2001, 292, 2077-2080.	12.6	820
7	Genome-Wide Demethylation of <i>Arabidopsis</i> Endosperm. <i>Science</i> , 2009, 324, 1451-1454.	12.6	628
8	Histone H2A.Z and DNA methylation are mutually antagonistic chromatin marks. <i>Nature</i> , 2008, 456, 125-129.	27.8	508
9	RNA Silencing Genes Control de Novo DNA Methylation. <i>Science</i> , 2004, 303, 1336-1336.	12.6	484
10	DNA demethylation in the <i>Arabidopsis</i> genome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 6752-6757.	7.1	470
11	Role of the DRM and CMT3 Methyltransferases in RNA-Directed DNA Methylation. <i>Current Biology</i> , 2003, 13, 2212-2217.	3.9	462
12	Active DNA Demethylation in Plant Companion Cells Reinforces Transposon Methylation in Gametes. <i>Science</i> , 2012, 337, 1360-1364.	12.6	445
13	Local DNA hypomethylation activates genes in rice endosperm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 18729-18734.	7.1	342
14	Deposition of Histone Variant H2A.Z within Gene Bodies Regulates Responsive Genes. <i>PLoS Genetics</i> , 2012, 8, e1002988.	3.5	329
15	Regulation of imprinted gene expression in <i>Arabidopsis</i> endosperm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1755-1762.	7.1	317
16	Role of <i>Arabidopsis ARGONAUTE4</i> in RNA-Directed DNA Methylation Triggered by Inverted Repeats. <i>Current Biology</i> , 2004, 14, 1214-1220.	3.9	285
17	Genome-wide analysis of DNA methylation patterns. <i>Development (Cambridge)</i> , 2007, 134, 3959-3965.	2.5	224
18	DNA Methylation Profiling Identifies CG Methylation Clusters in <i>Arabidopsis</i> Genes. <i>Current Biology</i> , 2005, 15, 154-159.	3.9	212

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19	DNA methylation as a system of plant genomic immunity. <i>Trends in Plant Science</i> , 2014, 19, 320-326.	8.8	197
20	Dnmt1-Independent CG Methylation Contributes to Nucleosome Positioning in Diverse Eukaryotes. <i>Cell</i> , 2014, 156, 1286-1297.	28.9	188
21	Evolution of Eukaryotic DNA Methylation and the Pursuit of Safer Sex. <i>Current Biology</i> , 2010, 20, R780-R785.	3.9	160
22	DNA demethylation is initiated in the central cells of <i>Arabidopsis</i> and rice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 15138-15143.	7.1	157
23	An evolutionary case for functional gene body methylation in plants and animals. <i>Genome Biology</i> , 2017, 18, 87.	8.8	135
24	Evolution and function of genomic imprinting in plants. <i>Genes and Development</i> , 2015, 29, 2517-2531.	5.9	133
25	Imprinted expression of genes and small RNA is associated with localized hypomethylation of the maternal genome in rice endosperm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7934-7939.	7.1	125
26	EMF1 and PRC2 Cooperate to Repress Key Regulators of <i>Arabidopsis</i> Development. <i>PLoS Genetics</i> , 2012, 8, e1002512.	3.5	114
27	Chromatin and siRNA pathways cooperate to maintain DNA methylation of small transposable elements in <i>Arabidopsis</i> . <i>Genome Biology</i> , 2005, 6, R90.	9.6	107
28	DNA Methylation and Histone H1 Jointly Repress Transposable Elements and Aberrant Intragenic Transcripts. <i>Molecular Cell</i> , 2020, 77, 310-323.e7.	9.7	99
29	DDM1 and Lsh remodelers allow methylation of DNA wrapped in nucleosomes. <i>ELife</i> , 2017, 6, .	6.0	98
30	The evolving functions of DNA methylation. <i>Current Opinion in Plant Biology</i> , 2008, 11, 554-559.	7.1	83
31	Mechanism for DNA transposons to generate introns on genomic scales. <i>Nature</i> , 2016, 538, 533-536.	27.8	83
32	<i>Arabidopsis</i> male sexual lineage exhibits more robust maintenance of CG methylation than somatic tissues. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 15132-15137.	7.1	75
33	The AAA-ATPase molecular chaperone Cdc48/p97 disassembles sumoylated centromeres, decondenses heterochromatin, and activates ribosomal RNA genes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 16166-16171.	7.1	74
34	A Conversation across Generations: Soma-Germ Cell Crosstalk in Plants. <i>Developmental Cell</i> , 2013, 24, 215-225.	7.0	65
35	DNA demethylation by ROS1a in rice vegetative cells promotes methylation in sperm. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9652-9657.	7.1	56
36	FACT complex is required for DNA demethylation at heterochromatin during reproduction in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4720-E4729.	7.1	54

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37	DNA methylation is maintained with high fidelity in the honey bee germline and exhibits global non-functional fluctuations during somatic development. <i>Epigenetics and Chromatin</i> , 2019, 12, 62.	3.9	50
38	Silencing of transposons in plant genomes: kick them when they're down. <i>Genome Biology</i> , 2004, 5, 249.	9.6	46
39	Epigenetic inheritance in Arabidopsis: selective silence. <i>Current Opinion in Genetics and Development</i> , 2005, 15, 557-562.	3.3	44
40	Regulation of biological accuracy, precision, and memory by plant chromatin organization. <i>Current Opinion in Genetics and Development</i> , 2012, 22, 132-138.	3.3	29
41	The human promoter methylome. <i>Nature Genetics</i> , 2007, 39, 442-443.	21.4	26
42	Histone H1 prevents non-CG methylation-mediated small RNA biogenesis in Arabidopsis heterochromatin. <i>ELife</i> , 2021, 10, .	6.0	23
43	Divergence among rice cultivars reveals roles for transposition and epimutation in ongoing evolution of genomic imprinting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	11
44	Balancing Parental Contributions in Plant Embryonic Gene Activation. <i>Developmental Cell</i> , 2011, 20, 735-736.	7.0	1
45	Maximum DNA Methylation Fidelity in the Germline Tolerates Global Non-Functional Gene Body Methylation Dynamics During Development. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1