

# John F Doebley

## List of Publications by Year in descending order

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92  
papers

19,571  
citations

28274

55  
h-index

43889

91  
g-index

97  
all docs

97  
docs citations

97  
times ranked

12612  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Molecular Genetics of Crop Domestication. <i>Cell</i> , 2006, 127, 1309-1321.	28.9	1,701
2	The evolution of apical dominance in maize. <i>Nature</i> , 1997, 386, 485-488.	27.8	1,404
3	A single domestication for maize shown by multilocus microsatellite genotyping. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 6080-6084.	7.1	1,143
4	Dwarf8 polymorphisms associate with variation in flowering time. <i>Nature Genetics</i> , 2001, 28, 286-289.	21.4	960
5	Maize association population: a high-resolution platform for quantitative trait locus dissection. <i>Plant Journal</i> , 2005, 44, 1054-1064.	5.7	821
6	Comparative population genomics of maize domestication and improvement. <i>Nature Genetics</i> , 2012, 44, 808-811.	21.4	816
7	The Effects of Artificial Selection on the Maize Genome. <i>Science</i> , 2005, 308, 1310-1314.	12.6	742
8	The TCP domain: a motif found in proteins regulating plant growth and development. <i>Plant Journal</i> , 1999, 18, 215-222.	5.7	736
9	The limits of selection during maize domestication. <i>Nature</i> , 1999, 398, 236-239.	27.8	715
10	Identification of a functional transposon insertion in the maize domestication gene <i>tb1</i> . <i>Nature Genetics</i> , 2011, 43, 1160-1163.	21.4	639
11	The origin of the naked grains of maize. <i>Nature</i> , 2005, 436, 714-719.	27.8	561
12	The Genetics of Maize Evolution. <i>Annual Review of Genetics</i> , 2004, 38, 37-59.	7.6	529
13	Genetic Structure and Diversity Among Maize Inbred Lines as Inferred From DNA Microsatellites. <i>Genetics</i> , 2003, 165, 2117-2128.	2.9	447
14	Transcriptional Regulators and the Evolution of Plant Form. <i>Plant Cell</i> , 1998, 10, 1075-1082.	6.6	416
15	Parallel domestication of the <i>Shattering1</i> genes in cereals. <i>Nature Genetics</i> , 2012, 44, 720-724.	21.4	401
16	A distant upstream enhancer at the maize domestication gene <i>tb1</i> has pleiotropic effects on plant and inflorescent architecture. <i>Nature Genetics</i> , 2006, 38, 594-597.	21.4	389
17	Genetic signals of origin, spread, and introgression in a large sample of maize landraces. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 1088-1092.	7.1	357
18	Pattern of diversity in the genomic region near the maize domestication gene <i>tb1</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 700-707.	7.1	294

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19	<i>ZmCCT</i> and the genetic basis of day-length adaptation underlying the postdomestication spread of maize. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E1913-21.	7.1	290
20	Early Allelic Selection in Maize as Revealed by Ancient DNA. <i>Science</i> , 2003, 302, 1206-1208.	12.6	287
21	Expression Patterns and Mutant Phenotype of <i>teosinte branched1</i> Correlate With Growth Suppression in Maize and Teosinte. <i>Genetics</i> , 2002, 162, 1927-1935.	2.9	263
22	Population structure and genetic diversity of New World maize races assessed by DNA microsatellites. <i>American Journal of Botany</i> , 2008, 95, 1240-1253.	1.7	251
23	Rate and Pattern of Mutation at Microsatellite Loci in Maize. <i>Molecular Biology and Evolution</i> , 2002, 19, 1251-1260.	8.9	248
24	A Large-Scale Screen for Artificial Selection in Maize Identifies Candidate Agronomic Loci for Domestication and Crop Improvement. <i>Plant Cell</i> , 2005, 17, 2859-2872.	6.6	234
25	Molecular Evidence and the Evolution of Maize. <i>Economic Botany</i> , 1990, 44, 6-27.	1.7	227
26	Duplicate FLORICAULA/LEAFY homologs <i>zfl1</i> and <i>zfl2</i> control inflorescence architecture and flower patterning in maize. <i>Development (Cambridge)</i> , 2003, 130, 2385-2395.	2.5	222
27	<i>grassy tillers1</i> promotes apical dominance in maize and responds to shade signals in the grasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E506-12.	7.1	215
28	<i>ZmCCT9</i> enhances maize adaptation to higher latitudes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E334-E341.	7.1	210
29	Construction of the third-generation <i>Zea mays</i> haplotype map. <i>GigaScience</i> , 2018, 7, 1-12.	6.4	191
30	Meiotic Drive of Chromosomal Knobs Reshaped the Maize Genome. <i>Genetics</i> , 1999, 153, 415-426.	2.9	173
31	EVOLUTIONARY ANALYSIS OF THE LARGE SUBUNIT OF CARBOXYLASE ( <i>rbcL</i> ) NUCLEOTIDE SEQUENCE AMONG THE GRASSES (GRAMINEAE). <i>Evolution; International Journal of Organic Evolution</i> , 1990, 44, 1097-1108.	2.3	153
32	An Analysis of Genetic Diversity Across the Maize Genome Using Microsatellites. <i>Genetics</i> , 2005, 169, 1617-1630.	2.9	147
33	The Role of cis Regulatory Evolution in Maize Domestication. <i>PLoS Genetics</i> , 2014, 10, e1004745.	3.5	144
34	Evolution of Anthocyanin Biosynthesis in Maize Kernels: The Role of Regulatory and Enzymatic Loci. <i>Genetics</i> , 1996, 143, 1395-1407.	2.9	144
35	Epistatic and environmental interactions for quantitative trait loci involved in maize evolution. <i>Genetical Research</i> , 1999, 74, 291-302.	0.9	138
36	Unfallen Grains: How Ancient Farmers Turned Weeds into Crops. <i>Science</i> , 2006, 312, 1318-1319.	12.6	124

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37	Stepwise cis-Regulatory Changes in ZCN8 Contribute to Maize Flowering-Time Adaptation. <i>Current Biology</i> , 2018, 28, 3005-3015.e4.	3.9	116
38	Developmental analysis of Teosinte glume architecture1 : a key locus in the evolution of maize (Poaceae). <i>American Journal of Botany</i> , 1997, 84, 1313-1322.	1.7	115
39	From Many, One: Genetic Control of Prolificacy during Maize Domestication. <i>PLoS Genetics</i> , 2013, 9, e1003604.	3.5	111
40	Genetic Variation for Phenotypically Invariant Traits Detected in Teosinte: Implications for the Evolution of Novel Forms. <i>Genetics</i> , 2002, 160, 333-342.	2.9	98
41	Linkage Mapping of Domestication Loci in a Large Maize Teosinte Backcross Resource. <i>Genetics</i> , 2007, 177, 1915-1928.	2.9	97
42	The origin of cornbelt maize: The isozyme evidence. <i>Economic Botany</i> , 1988, 42, 120-131.	1.7	95
43	Megabase-Scale Inversion Polymorphism in the Wild Ancestor of Maize. <i>Genetics</i> , 2012, 191, 883-894.	2.9	94
44	The Molecular Evolution of terminal ear1, a Regulatory Gene in the Genus Zea. <i>Genetics</i> , 1999, 153, 1455-1462.	2.9	91
45	Panzea: a database and resource for molecular and functional diversity in the maize genome. <i>Nucleic Acids Research</i> , 2006, 34, D752-D757.	14.5	89
46	Genome-wide Analysis of Transcriptional Variability in a Large Maize-Teosinte Population. <i>Molecular Plant</i> , 2018, 11, 443-459.	8.3	87
47	Evidence That the Origin of Naked Kernels During Maize Domestication Was Caused by a Single Amino Acid Substitution in <i>tga1</i> . <i>Genetics</i> , 2015, 200, 965-974.	2.9	86
48	Do Large Effect QTL Fractionate? A Case Study at the Maize Domestication QTL <i>teosinte branched1</i> . <i>Genetics</i> , 2011, 188, 673-681.	2.9	85
49	Estimating a Nucleotide Substitution Rate for Maize from Polymorphism at a Major Domestication Locus. <i>Molecular Biology and Evolution</i> , 2005, 22, 2304-2312.	8.9	82
50	Selection During Maize Domestication Targeted a Gene Network Controlling Plant and Inflorescence Architecture. <i>Genetics</i> , 2017, 207, 755-765.	2.9	75
51	ISOZYME VARIATION IN THE RACES OF MAIZE FROM MEXICO. <i>American Journal of Botany</i> , 1985, 72, 629-639.	1.7	74
52	MOLECULAR EVIDENCE FOR A MISSING WILD RELATIVE OF MAIZE AND THE INTROGRESSION OF ITS CHLOROPLAST GENOME INTO <i>ZEA PERENNIS</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1989, 43, 1555-1559.	2.3	74
53	Chloroplast DNA diversity among wild and cultivated members of Cucurbita (Cucurbitaceae). <i>Theoretical and Applied Genetics</i> , 1992, 84-84, 859-865.	3.6	71
54	Major Regulatory Genes in Maize Contribute to Standing Variation in Teosinte ( <i>Zea mays</i> ssp.) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62</i>	2.9	67

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55	Isozyme Variation in the Races of Maize from Mexico. <i>American Journal of Botany</i> , 1985, 72, 629.	1.7	61
56	The genetic architecture of teosinte catalyzed and constrained maize domestication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 5643-5652.	7.1	59
57	Genetics, development and plant evolution. <i>Current Opinion in Genetics and Development</i> , 1993, 3, 865-872.	3.3	57
58	Molecular Evolution of FLORICAULA/LEAFY Orthologs in the Andropogoneae (Poaceae). <i>Molecular Biology and Evolution</i> , 2005, 22, 1082-1094.	8.9	56
59	The Inheritance and Evolution of Leaf Pigmentation and Pubescence in Teosinte. <i>Genetics</i> , 2004, 167, 1949-1959.	2.9	55
60	CHLOROPLAST DNA VARIATION AND THE PHYLOGENY OF HORDEUM (POACEAE). <i>American Journal of Botany</i> , 1992, 79, 576-584.	1.7	54
61	MORPHOLOGICAL TRAITS DEFINING SPECIES DIFFERENCES IN WILD RELATIVES OF MAIZE ARE CONTROLLED BY MULTIPLE QUANTITATIVE TRAIT LOCI. <i>Evolution; International Journal of Organic Evolution</i> , 2002, 56, 273-283.	2.3	52
62	Exceptional Genetic Divergence of Northern Flint Corn. <i>American Journal of Botany</i> , 1986, 73, 64.	1.7	50
63	EXCEPTIONAL GENETIC DIVERGENCE OF NORTHERN FLINT CORN. <i>American Journal of Botany</i> , 1986, 73, 64-69.	1.7	49
64	Maize Introgression Into Teosinte-A Reappraisal. <i>Annals of the Missouri Botanical Garden</i> , 1984, 71, 1100.	1.3	48
65	MADS-box genes of maize: frequent targets of selection during domestication. <i>Genetical Research</i> , 2011, 93, 65-75.	0.9	47
66	ALLOZYME VARIATION IN OLD WORLD RACES OF SORGHUM BICOLOR (POACEAE). <i>American Journal of Botany</i> , 1989, 76, 247-255.	1.7	43
67	The genome-wide dynamics of purging during selfing in maize. <i>Nature Plants</i> , 2019, 5, 980-990.	9.3	42
68	TeoNAM: A Nested Association Mapping Population for Domestication and Agronomic Trait Analysis in Maize. <i>Genetics</i> , 2019, 213, 1065-1078.	2.9	42
69	Genetic Evidence and the Origin of Maize. <i>Latin American Antiquity</i> , 2001, 12, 84-86.	0.6	39
70	TRIPSACUM ANDERSONII IS A NATURAL HYBRID INVOLVING ZEA AND TRIPSACUM: MOLECULAR EVIDENCE. <i>American Journal of Botany</i> , 1990, 77, 722-726.	1.7	37
71	Fine scale genetic structure in the wild ancestor of maize ( <i>Zea mays</i> ssp. <i>parviglumis</i> ). <i>Molecular Ecology</i> , 2010, 19, 1162-1173.	3.9	37
72	The role of <i>teosinte glume architecture</i> ( <i>tga1</i> ) in coordinated regulation and evolution of grass glumes and inflorescence axes. <i>New Phytologist</i> , 2012, 193, 204-215.	7.3	34

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73	Genetic Dissection of a Genomic Region with Pleiotropic Effects on Domestication Traits in Maize Reveals Multiple Linked QTL. <i>Genetics</i> , 2014, 198, 345-353.	2.9	34
74	Chloroplast DNA Variation and the Phylogeny of <i>Hordeum</i> (Poaceae). <i>American Journal of Botany</i> , 1992, 79, 576.	1.7	32
75	Fine Mapping of a QTL Associated with Kernel Row Number on Chromosome 1 of Maize. <i>PLoS ONE</i> , 2016, 11, e0150276.	2.5	30
76	Wheat, rye, and barley on the cob?. <i>Nature Biotechnology</i> , 2002, 20, 337-338.	17.5	29
77	The genetic architecture of the maize progenitor, teosinte, and how it was altered during maize domestication. <i>PLoS Genetics</i> , 2020, 16, e1008791.	3.5	27
78	George Beadle's Other Hypothesis: One-Gene, One-Trait. <i>Genetics</i> , 2001, 158, 487-493.	2.9	26
79	Evidence for a Natural Allelic Series at the Maize Domestication Locus <i>teosinte branched1</i> . <i>Genetics</i> , 2012, 191, 951-958.	2.9	24
80	Suppressor of sessile spikelets 1 ( <i>Sosl</i> ): a dominant mutant affecting inflorescence development in maize. <i>American Journal of Botany</i> , 1995, 82, 571-577.	1.7	20
81	Defining the Role of the MADS-Box Gene, <i>Zea Agamous-like1</i> , a Target of Selection During Maize Domestication. <i>Journal of Heredity</i> , 2018, 109, 333-338.	2.4	19
82	<i>Tripsacum andersonii</i> is a Natural Hybrid Involving <i>Zea</i> and <i>Tripsacum</i> : Molecular Evidence. <i>American Journal of Botany</i> , 1990, 77, 722.	1.7	19
83	Defining the Role of prolamin-box binding factor1 Gene During Maize Domestication. <i>Journal of Heredity</i> , 2014, 105, 576-582.	2.4	17
84	Allozyme Variation in Old World Races of <i>Sorghum bicolor</i> (Poaceae). <i>American Journal of Botany</i> , 1989, 76, 247.	1.7	17
85	The Role of Regulatory Genes During Maize Domestication: Evidence From Nucleotide Polymorphism and Gene Expression. <i>Genetics</i> , 2008, 178, 2133-2143.	2.9	16
86	A Gene for Genetic Background in <i>Zea mays</i> : Fine-Mapping <i>enhancer of teosinte branched1.2</i> to a YABBY Class Transcription Factor. <i>Genetics</i> , 2016, 204, 1573-1585.	2.9	15
87	Using Association Mapping in Teosinte to Investigate the Function of Maize Selection-Candidate Genes. <i>PLoS ONE</i> , 2009, 4, e8227.	2.5	13
88	Hybrid Decay: A Transgenerational Epigenetic Decline in Vigor and Viability Triggered in Backcross Populations of Teosinte with Maize. <i>Genetics</i> , 2019, 213, 143-160.	2.9	7
89	Suppressor of Sessile spikelets 1 ( <i>Sos1</i> ): A Dominant Mutant Affecting Inflorescence Development in Maize. <i>American Journal of Botany</i> , 1995, 82, 571.	1.7	6
90	Domestication reshaped the genetic basis of inbreeding depression in a maize landrace compared to its wild relative, teosinte. <i>PLoS Genetics</i> , 2021, 17, e1009797.	3.5	5

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91	Mapping Prolificacy QTL in Maize and Teosinte. <i>Journal of Heredity</i> , 2016, 107, 674-678.	2.4	2
92	A conserved genetic architecture among populations of the maize progenitor, teosinte, was radically altered by domestication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	1