John E Bowers

List of Publications by Year
in descending order

49 papers	12,693 citations	87723 38 h-index	189595 50 g-index
50 all docs	50 docs citations	50 times ranked	12087 citing authors

#	Article	IF	Citations
1	The Sorghum bicolor genome and the diversification of grasses. Nature, 2009, 457, 551-556.	13.7	2,642
2	Unravelling angiosperm genome evolution by phylogenetic analysis of chromosomal duplication events. Nature, 2003, 422, 433-438.	13.7	1,470
3	Repeated polyploidization of Gossypium genomes and the evolution of spinnable cotton fibres. Nature, 2012, 492, 423-427.	13.7	1,204
4	The draft genome of the transgenic tropical fruit tree papaya (Carica papaya Linnaeus). Nature, 2008, 452, 991-996.	13.7	964
5	The sunflower genome provides insights into oil metabolism, flowering and Asterid evolution. Nature, 2017, 546, 148-152.	13.7	579
6	Unraveling ancient hexaploidy through multiply-aligned angiosperm gene maps. Genome Research, 2008, 18, 1944-1954.	2.4	515
7	The pineapple genome and the evolution of CAM photosynthesis. Nature Genetics, 2015, 47, 1435-1442.	9.4	472
8	Allele-defined genome of the autopolyploid sugarcane Saccharum spontaneum L.. Nature Genetics, 2018, 50, 1565-1573.	9.4	463
9	A genome triplication associated with early diversification of the core eudicots. Genome Biology, 2012, 13, R3.	13.9	389
10	Finding and Comparing Syntenic Regions among Arabidopsis and the Outgroups Papaya, Poplar, and Grape: CoGe with Rosids. Plant Physiology, 2008, 148, 1772-1781.	2.3	376
11	Genome of the long-living sacred lotus (Nelumbo nucifera Gaertn.). Genome Biology, 2013, 14, R41.	13.9	329
12	Physical and Genetic Structure of the Maize Genome Reflects Its Complex Evolutionary History. PLoS Genetics, 2007, 3, e123.	1.5	270
13	Angiosperm genome comparisons reveal early polyploidy in the monocot lineage. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 472-477.	3.3	267
14	The asparagus genome sheds light on the origin and evolution of a young Y chromosome. Nature Communications, 2017, 8, 1279.	5.8	240
15	Many gene and domain families have convergent fates following independent whole-genome duplication events in Arabidopsis, Oryza, Saccharomyces and Tetraodon. Trends in Genetics, 2006, 22, 597-602.	2.9	181
16	Integration of Cot Analysis, DNA Cloning, and High-Throughput Sequencing Facilitates Genome Characterization and Gene Discovery. Genome Research, 2002, 12, 795-807.	2.4	172
17	Sunflower pan-genome analysis shows that hybridization altered gene content and disease resistance. Nature Plants, 2019, 5, 54-62.	4.7	172
18	Buffering of crucial functions by paleologous duplicated genes may contribute cyclicality to angiosperm genome duplication. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2730-2735.	3.3	168

#	Article	IF	Citations
19	Comparative genomic analysis of C4 photosynthetic pathway evolution in grasses. Genome Biology, 2009, 10, R68.	13.9	144
20	Comparative physical mapping links conservation of microsynteny to chromosome structure and recombination in grasses. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13206-13211.	3.3	141
21	Association Mapping and the Genomic Consequences of Selection in Sunflower. PLoS Genetics, 2013, 9, e1003378.	1.5	116
22	Genetic, Physical, and Informatics Resources for Maize. On the Road to an Integrated Map. Plant Physiology, 2002, 130, 1598-1605.	2.3	106
23	SNP Discovery and Development of a High-Density Genotyping Array for Sunflower. PLoS ONE, 2012, 7, e29814.	1.1	100
24	Development of a 10,000 Locus Genetic Map of the Sunflower Genome Based on Multiple Crosses. G3: Genes, Genomes, Genetics, 2012, 2, 721-729.	0.8	96
25	Structure and evolution of cereal genomes. Current Opinion in Genetics and Development, 2003, 13, 644-650.	1.5	93
26	An Ultra-High-Density, Transcript-Based, Genetic Map of Lettuce. G3: Genes, Genomes, Genetics, 2013, 3, 617-631.	0.8	91
27	Extensive Concerted Evolution of Rice Paralogs and the Road to Regaining Independence. Genetics, 2007, 177, 1753-1763.	1.2	85
28	Comparative inference of illegitimate recombination between rice and sorghum duplicated genes produced by polyploidization. Genome Research, 2009, 19, 1026-1032.	2.4	83
29	A physical map of the papaya genome with integrated genetic map and genome sequence. BMC Genomics, 2009, 10, 371.	1.2	81
30	A high-density genetic map of Arachis duranensis, a diploid ancestor of cultivated peanut. BMC Genomics, 2012, 13, 469.	1.2	81
31	Comparative genomics of Gossypium and Arabidopsis: Unraveling the consequences of both ancient and recent polyploidy. Genome Research, 2005, 15, 1198-1210.	2.4	54
32	Chromosomal Evolution and Patterns of Introgression in <i>Helianthus</i>. Genetics, 2014, 197, 969-979.	1.2	52
33	Insights into angiosperm evolution, floral development and chemical biosynthesis from the Aristolochia fimbriata genome. Nature Plants, 2021, 7, 1239-1253.	4.7	51
34	A draft physical map of a D-genome cotton species (Gossypium raimondii). BMC Genomics, 2010, 11, 395.	1.2	48
35	Association mapping in sunflower (Helianthus annuus L.) reveals independent control of apical vs. basal branching. BMC Plant Biology, 2015, 15, 84.	1.6	43
36	Comparative Genomics of Grasses Promises a Bountiful Harvest. Plant Physiology, 2009, 149, 125-131.	2.3	42

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37	Comparative mapping in intraspecific populations uncovers a high degree of macrosynteny between A- and B-genome diploid species of peanut. BMC Genomics, 2012, 13, 608.	1.2	40
38	Genetic analysis of safflower domestication. BMC Plant Biology, 2014, 14, 43.	1.6	40
39	Genetic Mapping of Millions of SNPs in Safflower (<i>Carthamus tinctorius</i> L.) via Whole-Genome Resequencing. G3: Genes, Genomes, Genetics, 2016, 6, 2203-2211.	0.8	39
40	A comparative phylogenetic approach for dating whole genome duplication events. Bioinformatics, 2004, 20, 180-185.	1.8	38
41	Comparative genome analysis of monocots and dicots, toward characterization of angiosperm diversity. Current Opinion in Biotechnology, 2004, 15, 120-125.	3.3	34
42	A physical map for the Amborella trichopoda genome sheds light on the evolution of angiosperm genome structure. Genome Biology, 2011, 12, R48.	13.9	28
43	Optimization of linkage mapping strategy and construction of a high-density American lotus linkage map. BMC Genomics, 2014, 15, 372.	1.2	18
44	A physical map of Brassica oleracea shows complexity of chromosomal changes following recursive paleopolyploidizations. BMC Genomics, 2011, 12, 470.	1.2	17
45	A Unified Single Nucleotide Polymorphism Map of Sunflower (Helianthus annuus L.) Derived from Current Genomic Resources. Crop Science, 2015, 55, 1696-1702.	0.8	16
46	Chromosome number is key to longevity of polyploid lineages. New Phytologist, 2021, 231, 19-28.	3.5	14
47	Development of an Ultra-Dense Genetic Map of the Sunflower Genome Based on Single-Feature Polymorphisms. PLoS ONE, 2012, 7, e51360.	1.1	12
48	GC content of plant genes is linked to past gene duplications. PLoS ONE, 2022, 17, e0261748.	1.1	6
49	Insights into the Common Ancestor of Eudicots. Advances in Botanical Research, 2014, 69, 137-174.	0.5	1