

John E Bowers

List of Publications by Year in descending order

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49
papers

12,693
citations

87888

38
h-index

189892

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. <i>Nature</i> , 2009, 457, 551-556.	27.8	2,642
2	Unravelling angiosperm genome evolution by phylogenetic analysis of chromosomal duplication events. <i>Nature</i> , 2003, 422, 433-438.	27.8	1,470
3	Repeated polyploidization of <i>Gossypium</i> genomes and the evolution of spinnable cotton fibres. <i>Nature</i> , 2012, 492, 423-427.	27.8	1,204
4	The draft genome of the transgenic tropical fruit tree papaya (<i>Carica papaya</i> Linnaeus). <i>Nature</i> , 2008, 452, 991-996.	27.8	964
5	The sunflower genome provides insights into oil metabolism, flowering and Asterid evolution. <i>Nature</i> , 2017, 546, 148-152.	27.8	579
6	Unraveling ancient hexaploidy through multiply-aligned angiosperm gene maps. <i>Genome Research</i> , 2008, 18, 1944-1954.	5.5	515
7	The pineapple genome and the evolution of CAM photosynthesis. <i>Nature Genetics</i> , 2015, 47, 1435-1442.	21.4	472
8	Allele-defined genome of the autopolyploid sugarcane <i>Saccharum spontaneum</i> L.. <i>Nature Genetics</i> , 2018, 50, 1565-1573.	21.4	463
9	A genome triplication associated with early diversification of the core eudicots. <i>Genome Biology</i> , 2012, 13, R3.	9.6	389
10	Finding and Comparing Syntenic Regions among Arabidopsis and the Outgroups Papaya, Poplar, and Grape: CoGe with Rosids. <i>Plant Physiology</i> , 2008, 148, 1772-1781.	4.8	376
11	Genome of the long-living sacred lotus (<i>Nelumbo nucifera</i> Gaertn.). <i>Genome Biology</i> , 2013, 14, R41.	9.6	329
12	Physical and Genetic Structure of the Maize Genome Reflects Its Complex Evolutionary History. <i>PLoS Genetics</i> , 2007, 3, e123.	3.5	270
13	Angiosperm genome comparisons reveal early polyploidy in the monocot lineage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 472-477.	7.1	267
14	The asparagus genome sheds light on the origin and evolution of a young Y chromosome. <i>Nature Communications</i> , 2017, 8, 1279.	12.8	240
15	Many gene and domain families have convergent fates following independent whole-genome duplication events in Arabidopsis, Oryza, Saccharomyces and Tetraodon. <i>Trends in Genetics</i> , 2006, 22, 597-602.	6.7	181
16	Integration of Cot Analysis, DNA Cloning, and High-Throughput Sequencing Facilitates Genome Characterization and Gene Discovery. <i>Genome Research</i> , 2002, 12, 795-807.	5.5	172
17	Sunflower pan-genome analysis shows that hybridization altered gene content and disease resistance. <i>Nature Plants</i> , 2019, 5, 54-62.	9.3	172
18	Buffering of crucial functions by paleologous duplicated genes may contribute cyclicity to angiosperm genome duplication. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 2730-2735.	7.1	168

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19	Comparative genomic analysis of C4 photosynthetic pathway evolution in grasses. <i>Genome Biology</i> , 2009, 10, R68.	9.6	144
20	Comparative physical mapping links conservation of microsynteny to chromosome structure and recombination in grasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 13206-13211.	7.1	141
21	Association Mapping and the Genomic Consequences of Selection in Sunflower. <i>PLoS Genetics</i> , 2013, 9, e1003378.	3.5	116
22	Genetic, Physical, and Informatics Resources for Maize. On the Road to an Integrated Map. <i>Plant Physiology</i> , 2002, 130, 1598-1605.	4.8	106
23	SNP Discovery and Development of a High-Density Genotyping Array for Sunflower. <i>PLoS ONE</i> , 2012, 7, e29814.	2.5	100
24	Development of a 10,000 Locus Genetic Map of the Sunflower Genome Based on Multiple Crosses. <i>G3: Genes, Genomes, Genetics</i> , 2012, 2, 721-729.	1.8	96
25	Structure and evolution of cereal genomes. <i>Current Opinion in Genetics and Development</i> , 2003, 13, 644-650.	3.3	93
26	An Ultra-High-Density, Transcript-Based, Genetic Map of Lettuce. <i>G3: Genes, Genomes, Genetics</i> , 2013, 3, 617-631.	1.8	91
27	Extensive Concerted Evolution of Rice Paralogs and the Road to Regaining Independence. <i>Genetics</i> , 2007, 177, 1753-1763.	2.9	85
28	Comparative inference of illegitimate recombination between rice and sorghum duplicated genes produced by polyploidization. <i>Genome Research</i> , 2009, 19, 1026-1032.	5.5	83
29	A physical map of the papaya genome with integrated genetic map and genome sequence. <i>BMC Genomics</i> , 2009, 10, 371.	2.8	81
30	A high-density genetic map of <i>Arachis duranensis</i> , a diploid ancestor of cultivated peanut. <i>BMC Genomics</i> , 2012, 13, 469.	2.8	81
31	Comparative genomics of <i>Gossypium</i> and <i>Arabidopsis</i> : Unraveling the consequences of both ancient and recent polyploidy. <i>Genome Research</i> , 2005, 15, 1198-1210.	5.5	54
32	Chromosomal Evolution and Patterns of Introgression in <i>Helianthus</i> . <i>Genetics</i> , 2014, 197, 969-979.	2.9	52
33	Insights into angiosperm evolution, floral development and chemical biosynthesis from the <i>Aristolochia fimbriata</i> genome. <i>Nature Plants</i> , 2021, 7, 1239-1253.	9.3	51
34	A draft physical map of a D-genome cotton species (<i>Gossypium raimondii</i>). <i>BMC Genomics</i> , 2010, 11, 395.	2.8	48
35	Association mapping in sunflower (<i>Helianthus annuus</i> L.) reveals independent control of apical vs. basal branching. <i>BMC Plant Biology</i> , 2015, 15, 84.	3.6	43
36	Comparative Genomics of Grasses Promises a Bountiful Harvest. <i>Plant Physiology</i> , 2009, 149, 125-131.	4.8	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. <i>BMC Genomics</i> , 2012, 13, 608.	2.8	40
38	Genetic analysis of safflower domestication. <i>BMC Plant Biology</i> , 2014, 14, 43.	3.6	40
39	Genetic Mapping of Millions of SNPs in Safflower (<i>Carthamus tinctorius</i> L.) via Whole-Genome Resequencing. <i>G3: Genes, Genomes, Genetics</i> , 2016, 6, 2203-2211.	1.8	39
40	A comparative phylogenetic approach for dating whole genome duplication events. <i>Bioinformatics</i> , 2004, 20, 180-185.	4.1	38
41	Comparative genome analysis of monocots and dicots, toward characterization of angiosperm diversity. <i>Current Opinion in Biotechnology</i> , 2004, 15, 120-125.	6.6	34
42	A physical map for the <i>Amborella trichopoda</i> genome sheds light on the evolution of angiosperm genome structure. <i>Genome Biology</i> , 2011, 12, R48.	9.6	28
43	Optimization of linkage mapping strategy and construction of a high-density American lotus linkage map. <i>BMC Genomics</i> , 2014, 15, 372.	2.8	18
44	A physical map of <i>Brassica oleracea</i> shows complexity of chromosomal changes following recursive paleopolyploidizations. <i>BMC Genomics</i> , 2011, 12, 470.	2.8	17
45	A Unified Single Nucleotide Polymorphism Map of Sunflower (<i>Helianthus annuus</i> L.) Derived from Current Genomic Resources. <i>Crop Science</i> , 2015, 55, 1696-1702.	1.8	16
46	Chromosome number is key to longevity of polyploid lineages. <i>New Phytologist</i> , 2021, 231, 19-28.	7.3	14
47	Development of an Ultra-Dense Genetic Map of the Sunflower Genome Based on Single-Feature Polymorphisms. <i>PLoS ONE</i> , 2012, 7, e51360.	2.5	12
48	GC content of plant genes is linked to past gene duplications. <i>PLoS ONE</i> , 2022, 17, e0261748.	2.5	6
49	Insights into the Common Ancestor of Eudicots. <i>Advances in Botanical Research</i> , 2014, 69, 137-174.	1.1	1