

Robert VanBuren

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

4,890
citations

186265

28
h-index

168389

53
g-index

67
all docs

67
docs citations

67
times ranked

5819
citing authors

#	ARTICLE	IF	CITATIONS
1	A comparative genomics examination of desiccation tolerance and sensitivity in two sister grass species. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	8
2	Leveraging millets for developing climate resilient agriculture. <i>Current Opinion in Biotechnology</i> , 2022, 75, 102683.	6.6	8
3	SunUp and Sunset genomes revealed impact of particle bombardment mediated transformation and domestication history in papaya. <i>Nature Genetics</i> , 2022, 54, 715-724.	21.4	26
4	Variability in Functional Traits along an Environmental Gradient in the South African Resurrection Plant <i>Myrothamnus flabellifolia</i> . <i>Plants</i> , 2022, 11, 1332.	3.5	3
5	Replaying the evolutionary tape to investigate subgenome dominance in allopolyploid <i>Brassica napus</i> . <i>New Phytologist</i> , 2021, 230, 354-371.	7.3	57
6	Expression dynamics of dehydration tolerance in the tropical plant <i>Marchantia inflexa</i> . <i>Plant Journal</i> , 2021, 105, 209-222.	5.7	8
7	The contributions from the progenitor genomes of the mesopolyploid Brassiceae are evolutionarily distinct but functionally compatible. <i>Genome Research</i> , 2021, 31, 799-810.	5.5	21
8	Vein-to-leaf blade ratio is an allometric indicator of leaf size and plasticity. <i>American Journal of Botany</i> , 2021, 108, 571-579.	1.7	28
9	Evolutionary innovations driving abiotic stress tolerance in C4 grasses and cereals. <i>Plant Cell</i> , 2021, 33, 3391-3401.	6.6	33
10	Unexplored dimensions of variability in vegetative desiccation tolerance. <i>American Journal of Botany</i> , 2021, 108, 346-358.	1.7	32
11	Diversification, spread, and admixture of octoploid strawberry in the Western Hemisphere. <i>American Journal of Botany</i> , 2021, 108, 2269-2281.	1.7	8
12	Representation and participation across 20 years of plant genome sequencing. <i>Nature Plants</i> , 2021, 7, 1571-1578.	9.3	151
13	<i>Fusarium virguliforme</i> Transcriptional Plasticity Is Revealed by Host Colonization of Maize versus Soybean. <i>Plant Cell</i> , 2020, 32, 336-351.	6.6	28
14	Composite modeling of leaf shape along shoots discriminates <i>Vitis</i> species better than individual leaves. <i>Applications in Plant Sciences</i> , 2020, 8, e11404.	2.1	29
15	Transcriptome-Based Prediction of Complex Traits in Maize. <i>Plant Cell</i> , 2020, 32, 139-151.	6.6	80
16	Exceptional subgenome stability and functional divergence in the allotetraploid Ethiopian cereal teff. <i>Nature Communications</i> , 2020, 11, 884.	12.8	101
17	Building near-complete plant genomes. <i>Current Opinion in Plant Biology</i> , 2020, 54, 26-33.	7.1	135
18	Intertwined signatures of desiccation and drought tolerance in grasses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 10079-10088.	7.1	40

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19	Genetic and genomic resources to study natural variation in <i>Brassica rapa</i> . <i>Plant Direct</i> , 2020, 4, e00285.	1.9	8
20	GingerRoot: A Novel DNA Transposon Encoding Integrase-Related Transposase in Plants and Animals. <i>Genome Biology and Evolution</i> , 2019, 11, 3181-3193.	2.5	8
21	The bracteatus pineapple genome and domestication of clonally propagated crops. <i>Nature Genetics</i> , 2019, 51, 1549-1558.	21.4	60
22	Time of day and network reprogramming during drought induced CAM photosynthesis in <i>Sedum album</i> . <i>PLoS Genetics</i> , 2019, 15, e1008209.	3.5	59
23	<i>Arabidopsis</i> defense mutant <i>ndr1-1</i> displays accelerated development and early flowering mediated by the hormone gibberellic acid. <i>Plant Science</i> , 2019, 285, 200-213.	3.6	9
24	Origin and evolution of the octoploid strawberry genome. <i>Nature Genetics</i> , 2019, 51, 541-547.	21.4	469
25	Haplotype-phased genome and evolution of phytonutrient pathways of tetraploid blueberry. <i>GigaScience</i> , 2019, 8, .	6.4	167
26	Lycophyte plastid genomics: extreme variation in GC, gene and intron content and multiple inversions between a direct and inverted orientation of the rRNA repeat. <i>New Phytologist</i> , 2019, 222, 1061-1075.	7.3	51
27	Massive Tandem Proliferation of ELIPs Supports Convergent Evolution of Desiccation Tolerance across Land Plants. <i>Plant Physiology</i> , 2019, 179, 1040-1049.	4.8	54
28	Subgenome assignment in allopolyploids: challenges and future directions. <i>Current Opinion in Plant Biology</i> , 2018, 42, 76-80.	7.1	71
29	Chromosome-scale scaffolding of the black raspberry (<i>Rubus occidentalis</i> L.) genome based on chromatin interaction data. <i>Horticulture Research</i> , 2018, 5, 8.	6.3	50
30	Single-molecule sequencing and optical mapping yields an improved genome of woodland strawberry (<i>Fragaria vesca</i>) with chromosome-scale contiguity. <i>GigaScience</i> , 2018, 7, 1-7.	6.4	209
31	Extreme haplotype variation in the desiccation-tolerant clubmoss <i>Selaginella lepidophylla</i> . <i>Nature Communications</i> , 2018, 9, 13.	12.8	89
32	A chromosome-scale assembly of the model desiccation tolerant grass <i>Oropetium thomaeum</i> . <i>Plant Direct</i> , 2018, 2, e00096.	1.9	39
33	Circadian Regulation of Pineapple CAM Photosynthesis. <i>Plant Genetics and Genomics: Crops and Models</i> , 2018, , 247-258.	0.3	5
34	Allele-defined genome of the autopolyploid sugarcane <i>Saccharum spontaneum</i> L.. <i>Nature Genetics</i> , 2018, 50, 1565-1573.	21.4	463
35	Desiccation Tolerance Evolved through Gene Duplication and Network Rewiring in <i>Lindernia</i> . <i>Plant Cell</i> , 2018, 30, 2943-2958.	6.6	53
36	A near complete, chromosome-scale assembly of the black raspberry (<i>Rubus occidentalis</i>) genome. <i>GigaScience</i> , 2018, 7, .	6.4	86

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37	The causes and consequences of subgenome dominance in hybrids and recent polyploids. <i>New Phytologist</i> , 2018, 220, 87-93.	7.3	161
38	Desiccation tolerance: Seedy origins of resurrection. <i>Nature Plants</i> , 2017, 3, 17046.	9.3	20
39	Seed desiccation mechanisms co-opted for vegetative desiccation in the resurrection grass <i>Oropetium thomaeum</i> . <i>Plant, Cell and Environment</i> , 2017, 40, 2292-2306.	5.7	49
40	Temporal and spatial transcriptomic and microRNA dynamics of CAM photosynthesis in pineapple. <i>Plant Journal</i> , 2017, 92, 19-30.	5.7	78
41	The genome of black raspberry (<i>Rubus occidentalis</i>). <i>Plant Journal</i> , 2016, 87, 535-547.	5.7	111
42	Balancing selection contributed to domestication of autopolyploid sugarcane (<i>Saccharum</i>)	1.2	7
43	A genetic linkage map of black raspberry (<i>Rubus occidentalis</i>) and the mapping of Ag 4 conferring resistance to the aphid <i>Amphorophora agathonica</i> . <i>Theoretical and Applied Genetics</i> , 2015, 128, 1631-1646.	3.6	35
44	Single-molecule sequencing of the desiccation-tolerant grass <i>Oropetium thomaeum</i> . <i>Nature</i> , 2015, 527, 508-511.	27.8	291
45	Progress, challenges and the future of crop genomes. <i>Current Opinion in Plant Biology</i> , 2015, 24, 71-81.	7.1	197
46	Origin and domestication of papaya Y chromosome. <i>Genome Research</i> , 2015, 25, 524-533.	5.5	87
47	The pineapple genome and the evolution of CAM photosynthesis. <i>Nature Genetics</i> , 2015, 47, 1435-1442.	21.4	472
48	The coffee genome provides insight into the convergent evolution of caffeine biosynthesis. <i>Science</i> , 2014, 345, 1181-1184.	12.6	520
49	Secretome Prediction and Analysis in Sacred Lotus (<i>Nelumbo nucifera</i> Gaertn.). <i>Tropical Plant Biology</i> , 2013, 6, 131-137.	1.9	6
50	Organelle DNA accumulation in the recently evolved papaya sex chromosomes. <i>Molecular Genetics and Genomics</i> , 2013, 288, 277-284.	2.1	18
51	Dynamic transposable element accumulation in the nascent sex chromosomes of papaya. <i>Mobile Genetic Elements</i> , 2013, 3, e23462.	1.8	16
52	Longli is not a Hybrid of Longan and Lychee as Revealed by Genome Size Analysis and Trichome Morphology. <i>Tropical Plant Biology</i> , 2011, 4, 228-236.	1.9	8