

Timothy F Sharbel

List of Publications by Year in descending order

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84
papers

4,128
citations

101543

36
h-index

123424

61
g-index

85
all docs

85
docs citations

85
times ranked

3480
citing authors

#	ARTICLE	IF	CITATIONS
1	Evolution of an Apomixis-Specific Allele Class in Supernumerary Chromatin of Apomictic <i>Boechera</i> . <i>Frontiers in Plant Science</i> , 2022, 13, .	3.6	3
2	Use of infrared analysis to identify genetic resources from isolated producers in Brazil as a tool to improve cassava competitiveness in the starch market. <i>International Journal of Food Science and Technology</i> , 2021, 56, 1354-1361.	2.7	5
3	The spread of infectious asexuality through haploid pollen. <i>New Phytologist</i> , 2021, 230, 804-820.	7.3	13
4	Chasing the Apomictic Factors in the <i>Ranunculus auricomus</i> Complex: Exploring Gene Expression Patterns in Microdissected Sexual and Apomictic Ovules. <i>Genes</i> , 2020, 11, 728.	2.4	14
5	A little bit of sex prevents mutation accumulation even in apomictic polyploid plants. <i>BMC Evolutionary Biology</i> , 2019, 19, 170.	3.2	25
6	Discovery of key regulators of dark gland development and hypericin biosynthesis in <i>St. John's Wort</i> (<i>Hypericum perforatum</i>). <i>Plant Biotechnology Journal</i> , 2019, 17, 2299-2312.	8.3	27
7	Transgenerational effects of inter-ploidy cross direction on reproduction and F2 seed development of <i>Arabidopsis thaliana</i> F1 hybrid triploids. <i>Plant Reproduction</i> , 2019, 32, 275-289.	2.2	5
8	Gene expression changes elicited by a parasitic B chromosome in the grasshopper <i>Eyprepocnemis plorans</i> are consistent with its phenotypic effects. <i>Chromosoma</i> , 2019, 128, 53-67.	2.2	15
9	Genome Editing for Global Food Security. <i>Trends in Biotechnology</i> , 2018, 36, 123-127.	9.3	56
10	Establishing the cell biology of apomictic reproduction in diploid <i>Boechera stricta</i> (Brassicaceae). <i>Annals of Botany</i> , 2018, 122, 513-539.	2.9	29
11	Hybridization drives evolution of apomicts in <i>Rubus</i> subgenus <i>Rubus</i> : evidence from microsatellite markers. <i>Annals of Botany</i> , 2017, 120, 317-328.	2.9	39
12	Protein-coding genes in B chromosomes of the grasshopper <i>Eyprepocnemis plorans</i> . <i>Scientific Reports</i> , 2017, 7, 45200.	3.3	53
13	Cryptic gene pools in the <i>Hypericum perforatum</i> – <i>H. maculatum</i> complex: diploid persistence versus trapped polyploid melting. <i>Annals of Botany</i> , 2017, 120, 955-966.	2.9	7
14	Pistil Transcriptome Analysis to Disclose Genes and Gene Products Related to Aposporous Apomixis in <i>Hypericum perforatum</i> L.. <i>Frontiers in Plant Science</i> , 2017, 8, 79.	3.6	22
15	Use of genotyping-by-sequencing to determine the genetic structure in the medicinal plant chamomile, and to identify flowering time and alpha-bisabolol associated SNP-loci by genome-wide association mapping. <i>BMC Genomics</i> , 2017, 18, 599.	2.8	29
16	Mutation Accumulation in an Asexual Relative of <i>Arabidopsis</i> . <i>PLoS Genetics</i> , 2017, 13, e1006550.	3.5	54
17	Inter-annual maintenance of the fine-scale genetic structure in a biennial plant. <i>Scientific Reports</i> , 2016, 6, 37712.	3.3	10
18	Phylogeography and modes of reproduction in diploid and tetraploid halophytes of <i>Limonium</i> species (Plumbaginaceae): evidence for a pattern of geographical parthenogenesis. <i>Annals of Botany</i> , 2016, 117, 37-50.	2.9	22

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19	Towards breeding of triploid chamomile (<i>Matricaria recutita</i> L.) – Ploidy variation within German chamomile of various origins. <i>Plant Breeding</i> , 2015, 134, 485-493.	1.9	13
20	Understanding Genetic Diversity and Population Structure of a <i>Poa pratensis</i> Worldwide Collection through Morphological, Nuclear and Chloroplast Diversity Analysis. <i>PLoS ONE</i> , 2015, 10, e0124709.	2.5	20
21	Hybrid apomicts trapped in the ecological niches of their sexual ancestors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E2357-65.	7.1	54
22	How just a few makes a lot: Speciation via reticulation and apomixis on example of European brambles (<i>Rubus</i> subgen. <i>Rubus</i> , Rosaceae). <i>Molecular Phylogenetics and Evolution</i> , 2015, 89, 13-27.	2.7	81
23	Prospects and limits of marker imputation in quantitative genetic studies in European elite wheat (<i>Triticum aestivum</i> L.). <i>BMC Genomics</i> , 2015, 16, 168.	2.8	30
24	Karyotype evolution in apomictic <i>Boechera</i> and the origin of the aberrant chromosomes. <i>Plant Journal</i> , 2015, 82, 785-793.	5.7	42
25	De novo sequencing of the <i>Hypericum perforatum</i> L. flower transcriptome to identify potential genes that are related to plant reproduction sensu lato. <i>BMC Genomics</i> , 2015, 16, 254.	2.8	37
26	Emergence of apospory and bypass of meiosis via apomixis after sexual hybridisation and polyploidisation. <i>New Phytologist</i> , 2014, 204, 1000-1012.	7.3	99
27	Genetic causes of transitions from sexual reproduction to asexuality in plants and animals. <i>Journal of Evolutionary Biology</i> , 2014, 27, 1346-1359.	1.7	121
28	Biogeographic variation in genetic variability, apomixis expression and ploidy of St. John's wort (<i>Hypericum perforatum</i>) across its native and introduced range. <i>Annals of Botany</i> , 2014, 113, 417-427.	2.9	33
29	Ploidy in the alpine sedge <i>Kobresia pygmaea</i> (Cyperaceae) and related species: combined application of chromosome counts, new microsatellite markers and flow cytometry. <i>Botanical Journal of the Linnean Society</i> , 2014, 176, 22-35.	1.6	9
30	Altered expression of Aurora kinases in <i>Arabidopsis</i> results in aneuploidy and polyploidization. <i>Plant Journal</i> , 2014, 80, 449-461.	5.7	32
31	Mating system and environmental variation drive patterns of adaptation in <i>Boechera spatifolia</i> (Boecheraceae). <i>Molecular Ecology</i> , 2014, 23, 4486-4497.	3.9	18
32	Computational identification of conserved microRNAs and their putative targets in the <i>Hypericum perforatum</i> L. flower transcriptome. <i>Plant Reproduction</i> , 2013, 26, 209-229.	2.2	38
33	On the origin and evolution of apomixis in <i>Boechera</i> . <i>Plant Reproduction</i> , 2013, 26, 309-315.	2.2	56
34	Reproductive differentiation into sexual and apomictic polyploid cytotypes in <i>Potentilla puberula</i> (Potentilleae, Rosaceae). <i>Annals of Botany</i> , 2013, 112, 1159-1168.	2.9	56
35	Asexual genome evolution in the apomictic <i>Ranunculus auricomus</i> complex: examining the effects of hybridization and mutation accumulation. <i>Molecular Ecology</i> , 2013, 22, 5908-5921.	3.9	118
36	Copy Number Variation in Transcriptionally Active Regions of Sexual and Apomictic <i>Boechera</i> Demonstrates Independently Derived Apomictic Lineages. <i>Plant Cell</i> , 2013, 25, 3808-3823.	6.6	19

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37	Volume-based pollen size analysis: an advanced method to assess somatic and gametophytic ploidy in flowering plants. <i>Plant Reproduction</i> , 2013, 26, 65-81.	2.2	62
38	A Conserved Apomixis-Specific Polymorphism Is Correlated with Exclusive Exonuclease Expression in Premeiotic Ovules of Apomictic <i>Boechera</i> Species. <i>Plant Physiology</i> , 2013, 163, 1660-1672.	4.8	71
39	The Conserved Chimeric Transcript UPGRADE2 Is Associated with Unreduced Pollen Formation and Is Exclusively Found in Apomictic <i>Boechera</i> Species. <i>Plant Physiology</i> , 2013, 163, 1640-1659.	4.8	31
40	Evolution of cryptic gene pools in <i>Hypericum perforatum</i> : the influence of reproductive system and gene flow. <i>Annals of Botany</i> , 2013, 111, 1083-1094.	2.9	25
41	Novel MicroRNAs and Microsatellite-like Small RNAs in Sexual and Apomictic <i>Boechera</i> Species. <i>MicroRNA (Sharjah, United Arab Emirates)</i> , 2013, 2, 46-63.	1.2	11
42	Reduced Alzheimer's Disease Pathology by St. John's Wort Treatment is Independent of Hyperforin and Facilitated by ABCC1 and Microglia Activation in Mice. <i>Current Alzheimer Research</i> , 2013, 10, 1057-1069.	1.4	82
43	Novel microRNAs and microsatellite-like small RNAs in sexual and apomictic <i>Boechera</i> species. <i>MicroRNA (Sharjah, United Arab Emirates)</i> , 2013, 2, 45-62.	1.2	10
44	Male fertility versus sterility, cytotype, and DNA quantitative variation in seed production in diploid and tetraploid sea lavenders (<i>Limonium</i> sp., <i>Plumbaginaceae</i>) reveal diversity in reproduction modes. <i>Sexual Plant Reproduction</i> , 2012, 25, 305-318.	2.2	17
45	Differential effects of polyploidy and diploidy on fitness of apomictic <i>Boechera</i> . <i>Sexual Plant Reproduction</i> , 2012, 25, 97-109.	2.2	31
46	Sporophytic and gametophytic functions of the cell cycle-associated <i>Mob1</i> gene in <i>Arabidopsis thaliana</i> L. <i>Gene</i> , 2011, 484, 1-12.	2.2	21
47	Apomictic and sexual lineages of the <i>Potentilla argentea</i> L. group (<i>Rosaceae</i>): Cytotype and molecular genetic differentiation. <i>Taxon</i> , 2011, 60, 721-732.	0.7	46
48	Overview of the potential of microRNAs and their target gene detection for cassava (<i>Manihot</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 0.6 13		
49	Grain development and endoreduplication in maize and the impact of heat stress. <i>Euphytica</i> , 2011, 182, 363-376.	1.2	6
50	The cytohistological basis of apospory in <i>Hypericum perforatum</i> L.. <i>Sexual Plant Reproduction</i> , 2011, 24, 47-61.	2.2	26
51	Selection of reference genes for quantitative real-time PCR expression studies of microdissected reproductive tissues in apomictic and sexual <i>Boechera</i> . <i>BMC Research Notes</i> , 2011, 4, 303.	1.4	16
52	Analysis of conserved microRNAs in floral tissues of sexual and apomictic <i>Boechera</i> species. <i>BMC Genomics</i> , 2011, 12, 500.	2.8	31
53	Characterization of microsatellite loci in <i>Erysimum mediohispanicum</i> (<i>Brassicaceae</i>) and cross-amplification in related species. <i>American Journal of Botany</i> , 2011, 98, e287-9.	1.7	9
54	Isolation and characterization of microsatellite loci from apomictic <i>Hypericum perforatum</i> (<i>Hypericaceae</i>). <i>American Journal of Botany</i> , 2011, 98, e167-9.	1.7	1

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55	Quantitative variation for apomictic reproduction in the genus <i>Boechera</i> (Brassicaceae). <i>American Journal of Botany</i> , 2010, 97, 1719-1731.	1.7	136
56	DNA Markers and FCSS Analyses Shed Light on the Genetic Diversity and Reproductive Strategy of <i>Jatropha curcas</i> L.. <i>Diversity</i> , 2010, 2, 810-836.	1.7	56
57	Apomictic and Sexual Ovules of <i>Boechera</i> Display Heterochronic Global Gene Expression Patterns. <i>Plant Cell</i> , 2010, 22, 655-671.	6.6	171
58	Apomixis in the Era of Biotechnology. , 2010, , 405-436.		24
59	Phenotypic, genetic and genomic consequences of natural and synthetic polyploidization of <i>Nicotiana attenuata</i> and <i>Nicotiana obtusifolia</i> . <i>Annals of Botany</i> , 2009, 103, 1207-1217.	2.9	75
60	Molecular signatures of apomictic and sexual ovules in the <i>Boechera holboellii</i> complex. <i>Plant Journal</i> , 2009, 58, 870-882.	5.7	107
61	Phylogeographic structure of the chloroplast DNA gene pool in North American <i>Boechera</i> – A genus and continental-wide perspective. <i>Molecular Phylogenetics and Evolution</i> , 2009, 52, 303-311.	2.7	55
62	Microsatellites from <i>Lysiphlebus hirticornis</i> Mackauer (Hymenoptera: Braconidae), a specialist primary parasitoid attacking the specialist tansy aphid, <i>Metopeurum fuscoviride</i> Stroyan (Hemiptera: Aphididae). <i>Molecular Ecology Resources</i> , 2009, 9, 931-934.	4.8	5
63	Diploid apomicts of the <i>Boechera holboellii</i> complex display large-scale chromosome substitutions and aberrant chromosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 14026-14031.	7.1	136
64	Towards understanding the dynamics of hybridization and apomixis in the evolution of the genus <i>Boechera</i> (Brassicaceae). <i>Systematics and Biodiversity</i> , 2007, 5, 321-331.	1.2	19
65	Genetic diversity and reproductive biology in ecotypes of the facultative apomict <i>Hypericum perforatum</i> L.. <i>Heredity</i> , 2006, 96, 322-334.	2.6	71
66	EMBRYOLOGY, KARYOLOGY, AND MODES OF REPRODUCTION IN THE NORTH AMERICAN GENUS <i>BOECHERA</i> (BRASSICACEAE): A COMPILATION OF SEVEN DECADES OF RESEARCH¹. <i>Annals of the Missouri Botanical Garden</i> , 2006, 93, 517-534.	1.3	56
67	A combined microsatellite multiplexing and boiling DNA extraction method for high-throughput parentage analyses in the Pacific oyster (<i>Crassostrea gigas</i>). <i>Aquaculture Research</i> , 2005, 36, 516-518.	1.8	27
68	Biogeographic distribution of polyploidy and B chromosomes in the apomictic <i>Boechera holboellii</i> complex. <i>Cytogenetic and Genome Research</i> , 2005, 109, 283-292.	1.1	48
69	Is the aneuploid chromosome in an apomictic <i>Boechera holboellii</i> ; a genuine B chromosome?. <i>Cytogenetic and Genome Research</i> , 2004, 106, 173-183.	1.1	43
70	Recurrent polyploid origins and chloroplast phylogeography in the <i>Arabis holboellii</i> complex (Brassicaceae). <i>Heredity</i> , 2001, 87, 59-68.	2.6	91
71	Genetic isolation by distance in <i>Arabidopsis thaliana</i> : biogeography and postglacial colonization of Europe. <i>Molecular Ecology</i> , 2000, 9, 2109-2118.	3.9	305
72	B-chromosome evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2000, 355, 163-178.	4.0	537

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73	A drop technique for flatworm chromosome preparation for light microscopy and high-resolution scanning electron microscopy. <i>Chromosome Research</i> , 1998, 6, 654-656.	2.2	5
74	Allozyme variability in sexual and parthenogenetic freshwater planarians: evidence for polyphyletic origin of parthenogenetic lineages through hybridization with coexisting sexuals. <i>Heredity</i> , 1998, 81, 38-47.	2.6	26
75	B-chromosome origin in the endemic New Zealand frog <i>Leiopelma hochstetteri</i> through sex chromosome devolution. <i>Genome</i> , 1998, 41, 14-22.	2.0	48
76	B-chromosome origin in the endemic New Zealand frog <i>Leiopelma hochstetteri</i> through sex chromosome devolution. <i>Genome</i> , 1998, 41, 14-22.	2.0	45
77	Flow cytometric assay for in vivo genotoxic effects of pesticides in Green frogs (<i>Rana clamitans</i>). <i>Aquatic Toxicology</i> , 1997, 38, 241-255.	4.0	33
78	Multiple supernumerary chromosomes in the pseudogamous parthenogenetic flatworm <i>Polycelis nigra</i> : lineage markers or remnants of genetic leakage?. <i>Genome</i> , 1997, 40, 850-856.	2.0	10
79	POSTGLACIAL RANGE FLUCTUATION, GENETIC SUBDIVISION AND SPECIATION IN THE WESTERN NORTH AMERICAN SPOTTED FROG COMPLEX, <i>RANA PRETIOSA</i> . <i>Evolution; International Journal of Organic Evolution</i> , 1996, 50, 374-390.	2.3	77
80	Partial Genetic Compatibility and Unidirectional Hybridization in Syntopic Populations of the Salamanders <i>Desmognathus fuscus</i> and <i>D. ochrophaeus</i> . <i>Copeia</i> , 1995, 1995, 466.	1.3	4
81	Systematics and biogeography of eastern Caribbean <i>Eleutherodactylus</i> (Anura: Leptodactylidae): evidence from allozymes. <i>Amphibia - Reptilia</i> , 1994, 15, 375-394.	0.5	12
82	NOTE. ISOLATION OF FOUR NEW STRAINS OF <i>CHLAMYDOMONAS REINHARDTII</i> (CHLOROPHYTA) FROM SOIL SAMPLES1. <i>Journal of Phycology</i> , 1994, 30, 770-773.	2.3	39
83	The evolution of hypervariable sex and supernumerary (B) chromosomes in the relict New Zealand frog, <i>Leiopelma hochstetteri</i> . <i>Journal of Evolutionary Biology</i> , 1993, 6, 417-441.	1.7	48
84	Allozyme relationships of some frogs (genus <i>Rana</i>) from Yunnan, China. <i>Amphibia - Reptilia</i> , 1989, 10, 267-275.	0.5	6