Stuart F Mcdaniel

List of Publications by Year
in descending order

61	2,766	186265	197818
papers	citations	28 h-index	49 g-index

69	69	69	2906
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Physcomitrella patens chromosomeâ€scale assembly reveals moss genome structure and evolution. Plant Journal, 2018, 93, 515-533.	5.7	406
2	Are all sex chromosomes created equal?. Trends in Genetics, 2011, 27, 350-357.	6.7	307
3	A Linkage Map Reveals a Complex Basis for Segregation Distortion in an Interpopulation Cross in the Moss Ceratodon purpureus. Genetics, 2007, 176, 2489-2500.	2.9	137
4	PHYLOGEOGRAPHIC STRUCTURE AND CRYPTIC SPECIATION IN THE TRANS-ANTARCTIC MOSS PYRRHOBRYUM MNIOIDES. Evolution; International Journal of Organic Evolution, 2003, 57, 205-215.	2.3	130
5	Physcomitrella patens: mosses enter the genomic age. Current Opinion in Plant Biology, 2007, 10, 182-189.	7.1	98
6	Selective sweeps and intercontinental migration in the cosmopolitan moss Ceratodon purpureus (Hedw.) Brid.. Molecular Ecology, 2005, 14, 1121-1132.	3.9	93
7	Novel bacterial lineages associated with boreal moss species. Environmental Microbiology, 2018, 20, 2625-2638.	3.8	86
8	The Moss Physcomitrella patens: A Novel Model System for Plant Development and Genomic Studies. Cold Spring Harbor Protocols, 2009, 2009, pdb.emo115.	0.3	80
9	Culturing the Moss Physcomitrella patens: Figure 1.. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5136.	0.3	75
10	RECURRENT EVOLUTION OF DIOECY IN BRYOPHYTES. Evolution; International Journal of Organic Evolution, 2013, 67, 567-572.	2.3	64
11	An experimental method to facilitate the identification of hybrid sporophytes in the moss Physcomitrella patens using fluorescent tagged lines. New Phytologist, 2011, 191, 301-306.	7.3	63
12	GENETIC CORRELATIONS DO NOT CONSTRAIN THE EVOLUTION OF SEXUAL DIMORPHISM IN THE MOSS CERATODON PURPUREUS. Evolution; International Journal of Organic Evolution, 2005, 59, 2353-2361.	2.3	59
13	THE SPECIATION HISTORY OF THEPHYSCOMITRIUM-PHYSCOMITRELLASPECIES COMPLEX. Evolution; International Journal of Organic Evolution, 2010, 64, 217-231.	2.3	59
14	Phylogeography and Phylodemography. Bryologist, 2002, 105, 373-383.	0.6	57
15	Gene-rich UV sex chromosomes harbor conserved regulators of sexual development. Science Advances, 2021, 7, .	10.3	53
16	Bryophyte dispersal inferred from colonization of an introduced substratum on Whiteface Mountain, New York. American Journal of Botany, 2004, 91, 1173-1182.	1.7	51
17	Phylogeny of haplolepideous mosses â€" challenges and perspectives. Journal of Bryology, 2012, 34, 173-186.	1.2	48
18	Molecular evidence for convergent evolution and allopolyploid speciation within the Physcomitrium-Physcomitrellaspecies complex. BMC Evolutionary Biology, 2014, 14, 158.	3.2	48

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19	De novo assembly and comparative analysis of the <scp>C</scp>eratodon purpureus transcriptome. Molecular Ecology Resources, 2015, 15, 203-215.	4.8	43
20	A target enrichment probe set for resolving the flagellate land plant tree of life. Applications in Plant Sciences, 2021, 9, e11406.	2.1	42
21	The Genetic Basis of Developmental Abnormalities in Interpopulation Hybrids of the Moss Ceratodon purpureus. Genetics, 2008, 179, 1425-1435.	2.9	40
22	Efficient Purging of Deleterious Mutations in Plants with Haploid Selfing. Genome Biology and Evolution, 2014, 6, 1238-1252.	2.5	38
23	Multiple factors influence population sex ratios in the Mojave Desert moss Syntrichia caninervis. American Journal of Botany, 2017, 104, 733-742.	1.7	36
24	Cryptic genetic variation in an inbreeding and cosmopolitan pest, Xylosandrus crassiusculus, revealed using dd<scp>RAD</scp>seq. Ecology and Evolution, 2017, 7, 10974-10986.	1.9	35
25	A pseudomoleculeâ€scale genome assembly of the liverwort Marchantia polymorpha. Plant Journal, 2020, 101, 1378-1396.	5.7	35
26	RECENT GENE-CAPTURE ON THE UV SEX CHROMOSOMES OF THE MOSSCERATODON PURPUREUS. Evolution; International Journal of Organic Evolution, 2013, 67, n/a-n/a.	2.3	34
27	The bacterial communities of Alaskan mosses and their contributions to N2-fixation. Microbiome, 2021, 9, 53.	11.1	34
28	An actinoporin plays a key role in water stress in the mossPhyscomitrella patens. New Phytologist, 2009, 184, 502-510.	7.3	32
29	Experimental habitat fragmentation increases linkage disequilibrium but does not affect genetic diversity or population structure in the Amazonian liverwort Radula flaccida. Molecular Ecology, 2006, 15, 2305-2315.	3.9	31
30	Meiotic sex ratio variation in natural populations of Ceratodon purpureus (Ditrichaceae). American Journal of Botany, 2014, 101, 1572-1576.	1.7	30
31	Transformation of the Moss Physcomitrella patens Using Direct DNA Uptake by Protoplasts. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5143.	0.3	28
32	Does reproductive assurance explain the incidence of polyploidy in plants and animals?. New Phytologist, 2020, 227, 14-21.	7.3	26
33	Terrestrial species adapted to sea dispersal: Differences in propagule dispersal of two Caribbean mangroves. Molecular Ecology, 2018, 27, 4612-4626.	3.9	25
34	Isolation and Regeneration of Protoplasts of the Moss Physcomitrella patens: Figure 1.. Cold Spring Harbor Protocols, 2009, 2009, pdb.prot5140.	0.3	24
35	Host Identity as a Driver of Moss-Associated N2 Fixation Rates in Alaska. Ecosystems, 2021, 24, 530-547.	3.4	24
36	Invited perspective: bryophytes as models for understanding the evolution of sexual systems. Bryologist, 2012, 115, 1-11.	0.6	23

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37	High migration rates shape the postglacial history of amphiâ€Atlantic bryophytes. Molecular Ecology, 2016, 25, 5568-5584.	3.9	22
38	Future directions and priorities for Arctic bryophyte research. Arctic Science, 2017, 3, 475-497.	2.3	20
39	Bryophytes are not early diverging land plants. New Phytologist, 2021, 230, 1300-1304.	7.3	20
40	Winter Dispersal of Bryophyte Fragments in the Adirondack Mountains, New York. Bryologist, 2000, 103, 592-600.	0.6	18
41	Estimating the Nucleotide Diversity in Ceratodon purpureus (Ditrichaceae) from 218 Conserved Exon-Primed, Intron-Spanning Nuclear Loci. Applications in Plant Sciences, 2013, 1, 1200387.	2.1	17
42	Resolving the northern hemisphere source region for the longâ€distance dispersal event that gave rise to the South American endemic dung moss Tetraplodon fuegianus. American Journal of Botany, 2017, 104, 1651-1659.	1.7	17
43	Genetic correlations do not constrain the evolution of sexual dimorphism in the moss Ceratodon purpureus. Evolution; International Journal of Organic Evolution, 2005, 59, 2353-61.	2.3	15
44	Peripatric speciation associated with genome expansion and femaleâ€biased sex ratios in the moss genus Ceratodon. American Journal of Botany, 2018, 105, 1009-1020.	1.7	12
45	Unveiling the nature of a miniature world: a horizon scan of fundamental questions in bryology. Journal of Bryology, 2022, 44, 1-34.	1.2	12
46	Environmental variation obscures species diversity in southern European populations of the moss genus Ceratodon. Taxon, 2018, 67, 673-692.	0.7	11
47	Effects of hybridization on sea turtle fitness. Conservation Genetics, 2018, 19, 1311-1322.	1.5	11
48	Hitchhiking the high seas: Global genomics of rafting crabs. Ecology and Evolution, 2019, 9, 957-974.	1.9	11
49	Microarthropod contributions to fitness variation in the common moss Ceratodon purpureus. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20210119.	2.6	11
50	The genetic architecture of sexual dimorphism in the mossCeratodon purpureus. Proceedings of the Royal Society B: Biological Sciences, 2021, 288, 20202908.	2.6	10
51	A method for eliminating bacterial contamination from in vitro moss cultures. Applications in Plant Sciences, 2015, 3, 1400086.	2.1	9
52	An NGS-Based Phylogeny of Orthotricheae (Orthotrichaceae, Bryophyta) With the Proposal of the New Genus Rehubryum From Zealandia. Frontiers in Plant Science, 2022, 13, .	3.6	7
53	Molecular phylogenetics ofKosteletzkya(Malvaceae, Hibisceae) reveals multiple independent and successive polyploid speciation events. Botanical Journal of the Linnean Society, 2015, 179, 421-435.	1.6	6
54	Advances in Calymperaeae (Dicranidae, Bryophyta): Phylogeny, divergence times and pantropical promiscuity. Bryologist, 2019, 122, 183.	0.6	5

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55	Does degeneration or genetic conflict shape gene content on UV sex chromosomes?. Bryophyte Diversity and Evolution, 2021, 43, .	1.1	4
56	Measuring volatile emissions from moss gametophytes: A review of methodologies and new applications. Applications in Plant Sciences, 2022, 10, e11468.	2.1	4
57	The Genetic Basis of Natural Variation in Bryophyte Model Systems. , 0, , 16-41.		3
58	Collaborative Design Reasoning in a Large Interdisciplinary Learning Tool Design Project. International Journal of Designs for Learning, 2020, 11, 85-97.	0.2	3
59	The relationship of C and N stable isotopes to high-latitude moss-associated N2 fixation. Oecologia, 2021, 197, 283-295.	2.0	2
60	Community Science, Storytelling, or Inquiry-Based Learning? Evaluating Three Technology-Enhanced Pedagogical Approaches in an Online Botany Course. American Biology Teacher, 2021, 83, 513-520.	0.2	2
61	Area from image analyses accurately estimates dryâ€weight biomass of juvenile tissue from the moss Ceratodon purpureus. Applications in Plant Sciences, 2021, 9, e11418.	2.1	0