PÃ©ter SzÃ¶vÃ©nyi

List of Publications by Year
in descending order

48	2,201	218677	254184
papers	citations	26 h-index	43 g-index

58	58	58	2583
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Anthoceros genomes illuminate the origin of land plants and the unique biology of hornworts. Nature Plants, 2020, 6, 259-272.	9.3	225
2	Bryophyte diversity and evolution: Windows into the early evolution of land plants. American Journal of Botany, 2011, 98, 352-369.	1.7	169
3	CLAVATA Was a Genetic Novelty for the Morphological Innovation of 3D Growth in Land Plants. Current Biology, 2018, 28, 2365-2376.e5.	3.9	123
4	The Physcomitrella patens gene atlas project: largeâ€scale <scp>RNA</scp>â€seq based expression data. Plant Journal, 2018, 95, 168-182.	5.7	115
5	The lichen symbiosis re-viewed through the genomes of Cladonia grayi and its algal partner Asterochloris glomerata. BMC Genomics, 2019, 20, 605.	2.8	98
6	Lipid exchanges drove the evolution of mutualism during plant terrestrialization. Science, 2021, 372, 864-868.	12.6	90
7	Largeâ€scale gene expression profiling data for the model moss <scp>P</scp>hyscomitrella patens aid understanding of developmental progression, culture and stress conditions. Plant Journal, 2014, 79, 530-539.	5.7	82
8	Oceanic islands are not sinks of biodiversity in spore-producing plants. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18989-18994.	7.1	74
9	The hornworts: morphology, evolution and development. New Phytologist, 2021, 229, 735-754.	7.3	72
10	Towards a plant model for enigmatic Uâ€toâ€C RNA editing: the organelle genomes, transcriptomes, editomes and candidate RNA editing factors in the hornwort Anthoceros agrestis. New Phytologist, 2020, 225, 1974-1992.	7.3	57
11	Analyses of transcriptome sequences reveal multiple ancient largeâ€scale duplication events in the ancestor of Sphagnopsida (Bryophyta). New Phytologist, 2016, 211, 300-318.	7.3	56
12	Phylogeographic analyses reveal distinct lineages of the liverworts Metzgeria furcata (L.) Dumort. and Metzgeria conjugata Lindb. (Metzgeriaceae) in Europe and North America. Biological Journal of the Linnean Society, 0, 98, 745-756.	1.6	55
13	The Sphagnome Project: enabling ecological and evolutionary insights through a genusâ€level sequencing project. New Phytologist, 2018, 217, 16-25.	7.3	54
14	Extensive Genome-Wide Phylogenetic Discordance Is Due to Incomplete Lineage Sorting and Not Ongoing Introgression in a Rapidly Radiated Bryophyte Genus. Molecular Biology and Evolution, 2021, 38, 2750-2766.	8.9	54
15	Establishment of Anthoceros agrestis as a model species for studying the biology of hornworts. BMC Plant Biology, 2015, 15, 98.	3.6	53
16	Generation-Biased Gene Expression in a Bryophyte Model System. Molecular Biology and Evolution, 2011, 28, 803-812.	8.9	49
17	Longâ€distance dispersal and genetic structure of natural populations: an assessment of the inverse isolation hypothesis in peat mosses. Molecular Ecology, 2012, 21, 5461-5472.	3.9	49
18	Charting the genomic landscape of seed-free plants. Nature Plants, 2021, 7, 554-565.	9.3	47

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19	Assigning DYWâ€type PPR proteins to RNA editing sites in the funariid mosses Physcomitrella patens and Funaria hygrometrica. Plant Journal, 2011, 67, 370-380.	5.7	46
20	A fern <scp>AINTEGUMENTA</scp> gene mirrors <scp>BABY BOOM</scp> in promoting apogamy in Ceratopteris richardii. Plant Journal, 2017, 90, 122-132.	5.7	46
21	De novo assembly and comparative analysis of the <scp>C</scp>eratodon purpureus transcriptome. Molecular Ecology Resources, 2015, 15, 203-215.	4.8	43
22	Selection Is No More Efficient in Haploid than in Diploid Life Stages of an Angiosperm and a Moss. Molecular Biology and Evolution, 2013, 30, 1929-1939.	8.9	41
23	Efficient Purging of Deleterious Mutations in Plants with Haploid Selfing. Genome Biology and Evolution, 2014, 6, 1238-1252.	2.5	38
24	Organellomic data sets confirm a cryptic consensus on (unrooted) landâ€plant relationships and provide new insights into bryophyte molecular evolution. American Journal of Botany, 2020, 107, 91-115.	1.7	38
25	A pseudomoleculeâ€scale genome assembly of the liverwort Marchantia polymorpha. Plant Journal, 2020, 101, 1378-1396.	5.7	35
26	Contrasting phylogeographic patterns in Sphagnum fimbriatum and Sphagnum squarrosum (Bryophyta, Sphagnopsida) in Europe. New Phytologist, 2006, 172, 784-794.	7.3	31
27	Evolution of the plant body plan. Current Topics in Developmental Biology, 2019, 131, 1-34.	2.2	31
28	Divergent evolution and niche differentiation within the common peatmoss Sphagnum magellanicum. American Journal of Botany, 2017, 104, 1060-1072.	1.7	28
29	Bryophyte diaspore bank: a genetic memory? Genetic structure and genetic diversity of surface populations and diaspore bank in the liverwort Mannia fragrans (Aytoniaceae). American Journal of Botany, 2008, 95, 542-548.	1.7	27
30	Comparative Genomics Elucidates the Origin of a Supergene Controlling Floral Heteromorphism. Molecular Biology and Evolution, 2022, 39, .	8.9	27
31	How Do Cold-Adapted Plants Respond to Climatic Cycles? Interglacial Expansion Explains Current Distribution and Genomic Diversity in Primula farinosa L.. Systematic Biology, 2017, 66, 715-736.	5.6	26
32	Hornworts: An Overlooked Window into Carbon-Concentrating Mechanisms. Trends in Plant Science, 2017, 22, 275-277.	8.8	25
33	Selfing in Haploid Plants and Efficacy of Selection: Codon Usage Bias in the Model Moss Physcomitrella patens. Genome Biology and Evolution, 2017, 9, 1528-1546.	2.5	21
34	Effects of Pleistocene glaciations on the genetic structure of Saxifraga florulenta (Saxifragaceae), a rare endemic of the Maritime Alps. Taxon, 2009, 58, 532-543.	0.7	20
35	Multilocus dataset reveals demographic histories of two peat mosses in Europe. BMC Evolutionary Biology, 2007, 7, 144.	3.2	19
36	Transcriptional Landscapes of Divergent Sporophyte Development in Two Mosses, Physcomitrium (Physcomitrella) patens and Funaria hygrometrica. Frontiers in Plant Science, 2020, 11, 747.	3.6	19

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37	An Agrobacteriumâ€mediated stable transformation technique for the hornwort model Anthoceros agrestis. New Phytologist, 2021, 232, 1488-1505.	7.3	18
38	Systematics of the <I>Sphagnum fimbriatum</I> Complex: Phylogenetic Relationships, Morphological Variation, and Allopolyploidy. Systematic Botany, 2012, 37, 15-30.	0.5	16
39	Evolutionary History of the Marchantia polymorpha Complex. Frontiers in Plant Science, 2020, 11, 829.	3.6	15
40	Stepâ€byâ€step protocol for the isolation and transient transformation of hornwort protoplasts. Applications in Plant Sciences, 2022, 10, e11456.	2.1	12
41	Population genetic consequences of the reproductive system in the liverwort Mannia fragrans. Plant Ecology, 2009, 202, 123-134.	1.6	10
42	Genetic and morphological diversity of Sphagnum angustifolium, S. flexuosum and S. fallax in Europe. Taxon, 2014, 63, 237-248.	0.7	10
43	Different molecular changes underlie the same phenotypic transition: Origins and consequences of independent shifts to homostyly within species. Molecular Ecology, 2023, 32, 61-78.	3.9	8
44	Are sexual or asexual events determining the genetic structure of populations in the liverwortMannia fragrans?. Journal of Bryology, 2008, 30, 66-73.	1.2	7
45	Orthologous nuclear markers and new transcriptomes that broadly cover the phylogenetic diversity of Acanthaceae. Applications in Plant Sciences, 2019, 7, e11290.	2.1	4
46	Development and characterization of novel SSR markers in the endangered endemic species Ferula sadleriana. Applications in Plant Sciences, 2020, 8, e11321.	2.1	3
47	Extremely low genetic diversity in the European clade of the model bryophyte Anthoceros agrestis. Plant Systematics and Evolution, 2020, 306, 1.	0.9	1
48	The first step into phenolic metabolism in the hornwort Anthoceros agrestis: molecular and biochemical characterization of two phenylalanine ammonia-lyase isoforms. Planta, 2022, 256, .	3.2	0