Dietmar Quandt

List of Publications by Year
in descending order

109 papers	6,017 citations	109321 35 h-index	76900 74 g-index
114 all docs	114 docs citations	114 times ranked	5351 citing authors

#	Article	IF	Citations
1	The evolution of the plastid chromosome in land plants: gene content, gene order, gene function. Plant Molecular Biology, 2011, 76, 273-297.	3.9	1,101
2	The deepest divergences in land plants inferred from phylogenomic evidence. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 15511-15516.	7.1	579
3	Noncoding plastid trnT-trnF sequences reveal a well resolved phylogeny of basal angiosperms. Journal of Evolutionary Biology, 2003, 16, 558-576.	1.7	309
4	Mechanisms of Functional and Physical Genome Reduction in Photosynthetic and Nonphotosynthetic Parasitic Plants of the Broomrape Family. Plant Cell, 2013, 25, 3711-3725.	6.6	289
5	Land plant evolutionary timeline: Gene effects are secondary to fossil constraints in relaxed clock estimation of age and substitution rates. American Journal of Botany, 2013, 100, 556-573.	1.7	279
6	Anthoceros genomes illuminate the origin of land plants and the unique biology of hornworts. Nature Plants, 2020, 6, 259-272.	9.3	225
7	Contemporaneous radiations of fungi and plants linked to symbiosis. Nature Communications, 2018, 9, 5451.	12.8	189
8	Mechanistic model of evolutionary rate variation en route to a nonphotosynthetic lifestyle in plants. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 9045-9050.	7.1	183
9	Mutational dynamics and phylogenetic utility of noncoding chloroplast DNA. Plant Systematics and Evolution, 2009, 282, 169-199.	0.9	159
10	Resolution of the ordinal phylogeny of mosses using targeted exons from organellar and nuclear genomes. Nature Communications, 2019, 10, 1485.	12.8	144
11	Evolution of Piperalesâ€"matK gene and trnK intron sequence data reveal lineage specific resolution contrast. Molecular Phylogenetics and Evolution, 2007, 42, 477-497.	2.7	127
12	Phylogeny of basal eudicots: Insights from non-coding and rapidly evolving DNA. Organisms Diversity and Evolution, 2007, 7, 55-77.	1.6	105
13	Restless 5S: The re-arrangement(s) and evolution of the nuclear ribosomal DNA in land plants. Molecular Phylogenetics and Evolution, 2011, 61, 321-332.	2.7	82
14	Characterisation of the Chloroplast DNA psbT-H Region and the Influence of Dyad Symmetrical Elements on Phylogenetic Reconstructions. Plant Biology, 2003, 5, 400-410.	3.8	81
15	Genomic affinities in Arachis section Arachis (Fabaceae): molecular and cytogenetic evidence. Theoretical and Applied Genetics, 2005, 111, 1229-1237.	3.6	80
16	20,000 species and five key markers: The status of molecular bryophyte phylogenetics. Phytotaxa, 2010, 9, 196.	0.3	80
17	Molecular Evolution of the trn T UGU â€•trn F GAA Region in Bryophytes. Plant Biology, 2004, 6, 545-554.	3.8	65
18	Phylogenetic analyses reveal high levels of polyphyly among pleurocarpous lineages as well as novel clades. Bryologist, 2009, 112, 447-466.	0.6	63

#	Article	IF	Citations
19	When morphology and molecules tell us different stories: a case-in-point withLeptodon corsicus,a new and unique endemic moss species from Corsica. Journal of Bryology, 2009, 31, 186-196.	1.2	61
20	Disentangling knots of rapid evolution: origin and diversification of the moss order Hypnales. Journal of Bryology, 2012, 34, 187-211.	1.2	60
21	Evolution of the Neckeraceae (Bryophyta): Resolving the backbone phylogeny. Systematics and Biodiversity, 2009, 7, 419-432.	1.2	56
22	Molecular evolution of the trnLUAA intron in bryophytes. Molecular Phylogenetics and Evolution, 2005, 36, 429-443.	2.7	54
23	Establishment of Anthoceros agrestis as a model species for studying the biology of hornworts. BMC Plant Biology, 2015, 15, 98.	3.6	53
24	Taxonomy and phylogeny in the earliest diverging pleurocarps: square holes and bifurcating pegs. Bryologist, 2007, 110, 533-560.	0.6	52
25	Universal primers for the amplification of the plastid trnK/matK region in land plants. Anales Del Jardin Botanico De Madrid, 2009, 66, 285-288.	0.4	52
26	What does it take to resolve relationships and to identify species with molecular markers? An example from the epiphytic Rhipsalideae (Cactaceae). American Journal of Botany, 2011, 98, 1549-1572.	1.7	51
27	How to tackle the molecular species inventory for an industrialized nationâ€"lessons from the first phase of the German Barcode of Life initiative GBOL (2012â€"2015). Genome, 2016, 59, 661-670.	2.0	51
28	Phylogeny of haplolepideous mosses â€" challenges and perspectives. Journal of Bryology, 2012, 34, 173-186.	1.2	48
29	Molecular evidence for convergent evolution and allopolyploid speciation within the Physcomitrium-Physcomitrellaspecies complex. BMC Evolutionary Biology, 2014, 14, 158.	3.2	48
30	Three species for the price of one within the moss <I>Homalothecium sericeum</I> s.l.. Taxon, 2014, 63, 249-257.	0.7	47
31	Phylogeny of the eudicot order Malpighiales: analysis of a recalcitrant clade with sequences of the petD group II intron. Plant Systematics and Evolution, 2009, 282, 201-228.	0.9	45
32	Phylogeny and classification of the Grimmiaceae/Ptychomitriaceae complex (Bryophyta) inferred from cpDNA. Molecular Phylogenetics and Evolution, 2008, 46, 863-877.	2.7	44
33	Identifying a mysterious aquatic fern gametophyte. Plant Systematics and Evolution, 2009, 281, 77-86.	0.9	44
34	Molecular Species Delimitation in the Racomitrium canescens Complex (Grimmiaceae) and Implications for DNA Barcoding of Species Complexes in Mosses. PLoS ONE, 2013, 8, e53134.	2.5	39
35	Neckera and Thamnobryum (Neckeraceae, Bryopsida): Paraphyletic assemblages. Taxon, 2011, 60, 36-50.	0.7	37
36	Huerteales sister to Brassicales plus Malvales, and newly circumscribed to include Dipentodon, Gerrardina, Huertea, Perrottetia, and Tapiscia. Taxon, 2009, 58, 468-478.	0.7	36

#	Article	IF	Citations
37	Biogeography of the Gondwanan tree fern family Dicksoniaceaeâ€"A tale of vicariance, dispersal and extinction. Journal of Biogeography, 2017, 44, 2648-2659.	3.0	34
38	A phylogenetic analysis ofPfeifferaand the reinstatement ofLymanbensoniaas an independently evolved lineage of epiphyticCactaceaewithin a new tribeLymanbensonieae. Willdenowia, 2010, 40, 151-172.	0.8	32
39	Molecular circumscription of the hornworts (Anthocerotophyta) based on the chloroplast DNA trnL?trnF region. Journal of Plant Research, 2003, 116, 389-398.	2.4	31
40	Back to the Future? Molecules Take Us Back to the 1925 Classification of the Lembophyllaceae (Bryopsida). Systematic Botany, 2009, 34, 443-454.	0.5	31
41	New national and regional bryophyte records, 12. Journal of Bryology, 2006, 28, 68-70.	1.2	30
42	Species, genomes, and section relationships in the genus Arachis (Fabaceae): a molecular phylogeny. Plant Systematics and Evolution, 2010, 290, 185-199.	0.9	30
43	The phylogeny of mosses â€“ Addressing open issues with a new mitochondrial locus: Group I intron cobi420. Molecular Phylogenetics and Evolution, 2010, 54, 417-426.	2.7	29
44	New insights in the evolution of the liverwort family Aneuraceae (Metzgeriales, Marchantiophyta), with emphasis on the genus Lobatiriccardia. Taxon, 2010, 59, 1424-1440.	0.7	28
45	Molecular phylogenetics of the Meteoriaceae s. str.: focusing on the genera Meteorium and Papillaria. Molecular Phylogenetics and Evolution, 2004, 32, 435-461.	2.7	27
46	The origin of the British and Macaronesian endemicThamnobryumspecies (Neckeraceae). Journal of Bryology, 2009, 31, 1-10.	1.2	27
47	Phylogenetic relationships in the â€˜Pinnatellaâ€™ clade of the moss family Neckeraceae (Bryophyta). Organisms Diversity and Evolution, 2010, 10, 107-122.	1.6	27
48	Phylogenetics of early branching eudicots: Comparing phylogenetic signal across plastid introns, spacers, and genes. Journal of Systematics and Evolution, 2012, 50, 85-108.	3.1	27
49	Phylogenetic position and delimitation of the moss family Plagiotheciaceae in the order Hypnales. Botanical Journal of the Linnean Society, 2013, 171, 330-353.	1.6	27
50	Explaining the â€˜anomalousâ€™ distribution of Echinodium (Bryopsida: Echinodiaceae): Independent evolution in Macaronesia and Australasia. Organisms Diversity and Evolution, 2008, 8, 282-292.	1.6	25
51	Cleaning a taxonomic dustbin: placing the European Hypnum species in a phylogenetic context!. Bryophyte Diversity and Evolution, 2018, 40, 37.	1.1	24
52	The systematic position of Pulchrinodus inflatus (Pterobryaceae, Bryopsida) based on molecular data. Studies in austral temperate rainforest bryophytes 21. Australian Systematic Botany, 2003, 16, 561.	0.9	23
53	Quaternary diversification of a columnar cactus in the driest place on earth. American Journal of Botany, 2021, 108, 184-199.	1.7	22
54	Phylogenetic reconstructions of the Hedwigiaceae reveal cryptic speciation and hybridisation in Hedwigia. Bryophyte Diversity and Evolution, 2014, 36, 1.	1.1	22

#	Article	IF	Citations
55	Lumping or splitting? The case of Racomitrium (Bryophytina: Grimmiaceae). Taxon, 2013, 62, 1117-1132.	0.7	21
56	Stereoisomeric Composition of Natural Myrtucommulone A. Journal of Natural Products, 2015, 78, 2381-2389.	3.0	21
57	Functional Diversity in Ferns Is Driven by Species Richness Rather Than by Environmental Constraints. Frontiers in Plant Science, 2020, 11, 615723.	3.6	21
58	Pulling the sting out of nettle systematics â€“ A comprehensive phylogeny of the genus Urtica L. (Urticaceae). Molecular Phylogenetics and Evolution, 2016, 102, 9-19.	2.7	20
59	Morphology, geographic distribution, and host preferences are poor predictors of phylogenetic relatedness in the mistletoe genus Viscum L.. Molecular Phylogenetics and Evolution, 2019, 131, 106-115.	2.7	20
60	Development of microsatellite markers and assembly of the plastid genome in Cistanthe longiscapa (Montiaceae) based on low-coverage whole genome sequencing. PLoS ONE, 2017, 12, e0178402.	2.5	19
61	Phylogeny-Based Comparative Methods Question the Adaptive Nature of Sporophytic Specializations in Mosses. PLoS ONE, 2012, 7, e48268.	2.5	19
62	Weeding the Nettles II: A delimitation of â€œUrtica dioica L.â€•(Urticaceae) based on morphological and molecular data, including a rehabilitation of Urtica gracilis Ait.. Phytotaxa, 2014, 162, 61.	0.3	18
63	Origin and diversification of Cristaria (Malvaceae) parallel Andean orogeny and onset of hyperaridity in the Atacama Desert. Global and Planetary Change, 2019, 181, 102992.	3.5	18
64	Plant life at the dry limitâ€”Spatial patterns of floristic diversity and composition around the hyperarid core of the Atacama Desert. PLoS ONE, 2020, 15, e0233729.	2.5	18
65	Patterns of molecular divergence within the palaeoaustral genusWeymouthiaBroth. (Lembophyllaceae, Bryopsida). Journal of Bryology, 2001, 23, 305-311.	1.2	15
66	<p class="HeadingRunIn">Common but new: Bartramia rosamrosiae, a â€œnewâ€•widespread species of apple mosses (Bartramiales, Bryophytina) from the Mediterranean and western North America</p>. Phytotaxa, 2015, 73, 37.	0.3	14
67	Population genomics of Tillandsia landbeckii reveals unbalanced genetic diversity and founder effects in the Atacama Desert. Global and Planetary Change, 2020, 184, 103076.	3.5	14
68	On the systematic position of the moss genus Catoscopium, with a new approach to the peristome reduction study. Arctoa, 2015, 24, 389-415.	0.2	14
69	Diabetes Care Needs of Hispanic Patients Treated at Inner-City Neighborhood Clinics in New York City. The Diabetes Educator, 1995, 21, 124-128.	2.5	13
70	Vegetation growth and landscape genetics of Tillandsia lomas at their dry limits in the Atacama Desert show fineâ€scale response to environmental parameters. Ecology and Evolution, 2020, 10, 13260-13274.	1.9	13
71	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
72	Molecular evolution and diversification of the moss family Daltoniaceae (Hookeriales, Bryophyta) with emphasis on the unravelling of the phylogeny of Distichophyllum and its allies. Botanical Journal of the Linnean Society, 2012, 170, 157-175.	1.6	11

#	Article	IF	Citations
73	Phylogenetic analyses of morphological evolution in the gametophyte and sporophyte generations of the moss order Hookeriales (Bryopsida). Molecular Phylogenetics and Evolution, 2012, 63, 351-364.	2.7	11
74	Whitepaper: Earth â€“ Evolution at the dry limit. Global and Planetary Change, 2020, 193, 103275.	3.5	11
75	Historical assembly of Zygophyllaceae in the Atacama Desert. Frontiers of Biogeography, 2020, 12, .	1.8	11
76	A multilocus phylogeny of the non-photosynthetic parasitic plant Cistanche (Orobanchaceae) refutes current taxonomy and identifies four major morphologically distinct clades. Molecular Phylogenetics and Evolution, 2020, 151, 106898.	2.7	11
77	Bucklandiella araucana (Grimmiaceae), a new species from Chile. Bryologist, 2011, 114, 732-743.	0.6	10
78	Setting the evolutionary timeline: Tillandsia landbeckii in the Chilean Atacama Desert. Plant Systematics and Evolution, 2021, 307, 1.	0.9	9
79	Orthostichellaceae fam. nov. and other novelties in pleurocarpous mosses revealed by phylogenetic analyses. Bryologist, 2019, 122, 219.	0.6	9
80	Plant migration under longâ€lasting hyperaridity â€“ phylogenomics unravels recent biogeographic history in one of the oldest deserts on Earth. New Phytologist, 2022, 234, 1863-1875.	7.3	9
81	ForsstroemiaLindb. (Neckeraceae) revisited. Journal of Bryology, 2012, 34, 114-122.	1.2	8
82	Floral development of Sabia (Sabiaceae): Evidence for the derivation of pentamery from a trimerous ancestry. American Journal of Botany, 2015, 102, 336-349.	1.7	8
83	Phylogenetic Relationships within the Moss Family Meteoriaceae in the Light of Different Datasets, Alignment and Analysis Methods. Systematics Association Special Volume, 2007, , 145-162.	0.2	8
84	The freshwater red algae (Batrachospermales, Rhodophyta) of Africa and Madagascar I. New species of Kumanoa, Sirodotia and the new genus Ahidranoa (Batrachospermaceae). Plant and Fungal Systematics, 2020, 65, 147-166.	0.5	7
85	Universal primers for a large cryptically simple cpDNA microsatellite region in Aristolochia (Aristolochiaceae). Molecular Ecology Notes, 2006, 6, 1051-1053.	1.7	6
86	Flower morphology and anatomy of Sabia (Sabiaceae): structural basis of an advanced pollination system among basal eudicots. Plant Systematics and Evolution, 2015, 301, 1543-1553.	0.9	6
87	From the lowlands to the highlands of Ecuador, a study of the genus Masteria (Araneae,) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5	0.5	6
88	New insights into the phylogeny and relationships within the worldwide genus Riccardia (Aneuraceae,) Tj ETQq0 0 0 rgBT /Overlock 10 T	0.6	6
89	Molecular evolution and phylogenetic utility of non-coding DNA: applications from species to deep level questions. Plant Systematics and Evolution, 2009, 282, 107-108.	0.9	5
90	A remarkable new Rhipsalis (Cactaceae) from eastern Brazil. Bradleya, 2014, 32, 2-12.	0.3	5

#	Article	IF	Citations
91	Current Advances in Molecular Phylogenetics. BioMed Research International, 2014, 2014, 1-2.	1.9	4
92	The evolution and biogeographic history of epiphytic thalloid liverworts. Molecular Phylogenetics and Evolution, 2021, 165, 107298.	2.7	4
93	Landscape genetics of the endangered Atacama Desert shrub Balsamocarpon brevifolium in the context of habitat fragmentation. Global and Planetary Change, 2020, 184, 103059.	3.5	3
94	Different Predictors Shape the Diversity Patterns of Epiphytic and Non-epiphytic Liverworts in Montane Forests of Uganda. Frontiers in Plant Science, 2020, 11, 765.	3.6	3
95	The taxonomic identity of the neglected Racomitrium stenocladum (Bryophyta, Grimmiaceae). Gayana - Botanica, 2011, 68, 323-326.	0.2	3
96	Isoenzymanalysen zur KlÃrung der Frage von Xerothermrelikten unter den Moosen in Mitteleuropa 1. Der Status von Brid. im Moselgebiet (Deutschland). Cryptogamie, Bryologie, 2000, 21, 77-86.	0.2	2
97	(1832â€“1833) Proposals to conserve the name Meteorium with a conserved type and change the conserved type of Papillaria (Musci: Meteoriaceae). Taxon, 2008, 57, 992-995.	0.7	2
98	Validation of the CombinationHomaliodendron fruticosum(Neckeraceae, Bryophyta). Annales Botanici Fennici, 2010, 47, 306-306.	0.1	2
99	The discovery of mature sporophytes ofRacomitrium laevigatumA.Jaeger (Grimmiaceae). Journal of Bryology, 2014, 36, 295-299.	1.2	2
100	The world's smallest Campanulaceae: Lysipomia mitsyae sp. nov.. Taxon, 2016, 65, 305-314.	0.7	2
101	Andreaea barbarae (Andreaeaceae, Bryophytina), a new moss species from Lesotho. Phytotaxa, 2018, 336, 148.	0.3	2
102	Addendum to Hypnum subcomplanatum HedenÃs, Schlesak, D. Quandt. Bryophyte Diversity and Evolution, 2019, 41, 1-1.	1.1	2
103	Cryptic speciation shapes the biogeographic history of a northern distributed moss. Botanical Journal of the Linnean Society, 2023, 201, 114-134.	1.6	2
104	Bryophyte Tree of Life: the current state of phylogenetic reconstruction in mosses. Journal of Bryology, 2012, 34, 157-159.	1.2	1
105	Extremely low genetic diversity in the European clade of the model bryophyte Anthoceros agrestis. Plant Systematics and Evolution, 2020, 306, 1.	0.9	1
106	Systematic Revision of Papillaria (Meteoriaceae, Bryophyta). Systematic Botany, 2020, 45, 411-438.	0.5	1
107	Living at its dry limits: Tillandsiales in the Atacama Desert. Plant Systematics and Evolution, 2022, 308, 1.	0.9	1
108	Neckera, Forsstroemia and Alleniella (Neckeraceae, Bryophyta) redefined based on phylogenetic analyses. Bryologist, 2022, 125, .	0.6	1

#	Article	IF	Citations
109	In Memoriam to Jochen Heinrichs (1969â€“2018). Bryophyte Diversity and Evolution, 2018, 40, 121.	1.1	0