Trevor R Hodkinson

List of Publications by Year
in descending order

121 papers	5,239 citations	101384 36 h-index	98622 67 g-index
126 all docs	126 docs citations	126 times ranked	5416 citing authors

#	Article	IF	Citations
1	New grass phylogeny resolves deep evolutionary relationships and discovers C₄ origins. New Phytologist, 2012, 193, 304-312.	3.5	433
2	Oligocene CO2 Decline Promoted C4 Photosynthesis in Grasses. Current Biology, 2008, 18, 37-43.	1.8	324
3	Phylogenetics of Miscanthus , Saccharum and related genera (Saccharinae, Andropogoneae, Poaceae) based on DNA sequences from ITS nuclear ribosomal DNA and plastid trnL intron and trnL-F intergenic spacers. Journal of Plant Research, 2002, 115, 381-392.	1.2	246
4	Anatomical enablers and the evolution of C ₄ photosynthesis in grasses. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 1381-1386.	3.3	239
5	Large multi-gene phylogenetic trees of the grasses (Poaceae): Progress towards complete tribal and generic level sampling. Molecular Phylogenetics and Evolution, 2008, 47, 488-505.	1.2	222
6	The use of dna sequencing (ITS and trnLâ€F), AFLP, and fluorescent in situ hybridization to study allopolyploid Miscanthus (Poaceae). American Journal of Botany, 2002, 89, 279-286.	0.8	207
7	Biogeography of the grasses (Poaceae): a phylogenetic approach to reveal evolutionary history in geographical space and geological time. Botanical Journal of the Linnean Society, 0, 162, 543-557.	0.8	195
8	Allopolyploidy, diversification, and the Miocene grassland expansion. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15149-15154.	3.3	177
9	Characterization of a Genetic Resource Collection for Miscanthus (Saccharinae, Andropogoneae,) Tj ETQq1 1 0.784314 rgBT /Overloc	1.4	149
10	Higher level phylogenetic relationships within the bamboos (Poaceae: Bambusoideae) based on five plastid markers. Molecular Phylogenetics and Evolution, 2013, 67, 404-413.	1.2	148
11	Non-monophyly of the woody bamboos (Bambuseae; Poaceae): a multi-gene region phylogenetic analysis of Bambusoideae s.s.. Journal of Plant Research, 2009, 122, 95-108.	1.2	142
12	Nomenclature of Miscanthus xgiganteus (Poaceae). Kew Bulletin, 2001, 56, 759.	0.4	127
13	Global gene flow releases invasive plants from environmental constraints on genetic diversity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 4218-4227.	3.3	108
14	The origins and diversification of C₄ grasses and savannaâ€adapted ungulates. Global Change Biology, 2009, 15, 2397-2417.	4.2	103
15	A Comparison of ITS Nuclear rDNA Sequence Data and AFLP Markers for Phylogenetic Studies in Phyllostachys (Bambusoideae, Poaceae). Journal of Plant Research, 2000, 113, 259-269.	1.2	90
16	Building Supertrees: An Empirical Assessment Using the Grass Family (Poaceae). Systematic Biology, 2002, 51, 136-150.	2.7	89
17	Phylogenetic relationships in Cyperaceae subfamily Mapanioideae inferred from pollen and plastid DNA sequence data. American Journal of Botany, 2003, 90, 1071-1086.	0.8	85
18	Marriage exchanges, seed exchanges, and the dynamics of manioc diversity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 18249-18254.	3.3	85

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19	Morphological and physiological traits for higher biomass production in perennial rhizomatous grasses grown on marginal land. GCB Bioenergy, 2015, 7, 375-385.	2.5	85
20	Plastid genome characterisation in Brassica and Brassicaceae using a new set of nine SSRs. Theoretical and Applied Genetics, 2006, 113, 1221-1231.	1.8	83
21	Genome Size is Negatively Correlated with Altitude in Natural Populations ofDactylis glomerata. Annals of Botany, 1998, 82, 99-105.	1.4	81
22	Complete Chloroplast Genome Sequence of a Major Allogamous Forage Species, Perennial Ryegrass (Lolium perenne L.). DNA Research, 2009, 16, 165-176.	1.5	72
23	Assessing internal support with large phylogenetic DNA matrices. Molecular Phylogenetics and Evolution, 2003, 27, 528-539.	1.2	68
24	Genome biology of the paleotetraploid perennial biomass crop Miscanthus. Nature Communications, 2020, 11, 5442.	5.8	67
25	Yield increase induced by the fungal root endophyte Piriformospora indica in barley grown at low temperature is nutrient limited. Symbiosis, 2014, 62, 29-39.	1.2	66
26	Phylogenetics of Papaver and Related Genera Based on DNA Sequences from ITS Nuclear Ribosomal DNA and Plastid trnL Intron and trnLâ€“F Intergenic Spacers. Annals of Botany, 2006, 98, 141-155.	1.4	64
27	Genetic variation in <scp>M</scp>iscanthusÂÃ—Âgiganteus and the importance of estimating genetic distance thresholds for differentiating clones. GCB Bioenergy, 2015, 7, 386-404.	2.5	62
28	From Concept to Commerce: Developing a Successful Fungal Endophyte Inoculant for Agricultural Crops. Journal of Fungi (Basel, Switzerland), 2018, 4, 24.	1.5	62
29	High levels of gene flow and genetic diversity in Irish populations of Salix capreaL. inferred from chloroplast and nuclear SSR markers. BMC Plant Biology, 2014, 14, 202.	1.6	56
30	DNA banking for plant breeding, biotechnology and biodiversity evaluation. Journal of Plant Research, 2007, 120, 17-29.	1.2	54
31	An Optimized Chloroplast DNA Extraction Protocol for Grasses (Poaceae) Proves Suitable for Whole Plastid Genome Sequencing and SNP Detection. PLoS ONE, 2008, 3, e2813.	1.1	49
32	Surviving in a warmer world: environmental and genetic responses. Climate Research, 2012, 53, 245-262.	0.4	48
33	Fungal root endophytes of a wild barley species increase yield in a nutrient-stressed barley cultivar. Symbiosis, 2015, 65, 1-7.	1.2	45
34	Phylogenetic analyses of plastid and nuclear DNA sequences indicate a rapid late Miocene radiation of the temperate bamboo tribe Arundinarieae (Poaceae, Bambusoideae). Plant Ecology and Diversity, 2010, 3, 109-120.	1.0	42
35	Extremely high cytoplasmic diversity in natural and breeding populations of Lolium (Poaceae). Heredity, 2007, 99, 531-544.	1.2	40
36	Chloroplast DNA markers (cpSSRs, SNPs) for Miscanthus, Saccharum and related grasses (Panicoideae,) Tj ETQq0 0 0 rgBT /Overlock 10	1.0	40

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37	Phylogenetics of Panicoideae (Poaceae) based on chloroplast and nuclear DNA sequences. Telopea, 2011, 13, 115-142.	0.4	40
38	Miscanthus: a case study for the utilization of natural genetic variation. Plant Genetic Resources: Characterisation and Utilisation, 2015, 13, 219-237.	0.4	37
39	Species Distinction in Irish Populations of Quercus petraea and Q. robur: Morphological versus Molecular Analyses. Annals of Botany, 2005, 96, 1237-1246.	1.4	36
40	Multi-gene Region Phylogenetic Analysis of the Grape Family (Vitaceae). Systematic Botany, 2012, 37, 941-950.	0.2	36
41	New chloroplast microsatellite markers suitable for assessing genetic diversity of Lolium perenne and other related grass species. Annals of Botany, 2012, 110, 1327-1339.	1.4	33
42	Towards Building the Tree of Life: A Simulation Study for All Angiosperm Genera. Systematic Biology, 2005, 54, 183-196.	2.7	30
43	Persistent fungal root endophytes isolated from a wild barley species suppress seed-borne infections in a barley cultivar. BioControl, 2015, 60, 281-292.	0.9	30
44	Plastid genome sequencing reveals biogeographical structure and extensive population genetic variation in wild populations of Phalaris arundinacea L. in northâ€western Europe. GCB Bioenergy, 2017, 9, 46-56.	2.5	30
45	Fungal Endophytes Enhance Agronomically Important Traits in Severely Droughtâ€Stressed Barley. Journal of Agronomy and Crop Science, 2015, 201, 419-427.	1.7	29
46	Genomic prediction of crown rust resistance in Lolium perenne. BMC Genetics, 2018, 19, 35.	2.7	28
47	Characterisation of chloroplast DNA haplotypes to reveal the provenance and genetic structure of oaks in Ireland. Forest Ecology and Management, 2004, 189, 123-131.	1.4	26
48	Profundae diversitas: the uncharted genetic diversity in a newly studied group of fungal root endophytes. Mycology, 2015, 6, 139-150.	2.0	25
49	Fungal endophytes of barley roots. Journal of Agricultural Science, 2014, 152, 602-615.	0.6	24
50	Media Manipulations and the Culture of Beneficial Fungal Root Endophytes. International Journal of Biology, 2015, 7, .	0.1	24
51	Origin of year-long bean (Phaseolus dumosusMacfady, Fabaceae) from reticulated hybridization events between multiplePhaseolusspecies. Annals of Botany, 2016, 118, 957-969.	1.4	23
52	Climate Change, Ecology and Systematics. , 2011, , .		22
53	Fungal Endophytes for Grass Based Bioremediation: An Endophytic Consortium Isolated from Agrostis stolonifera Stimulates the Growth of Festuca arundinacea in Lead Contaminated Soil. Journal of Fungi (Basel, Switzerland), 2020, 6, 254.	1.5	20
54	Using AFLP markers for species differentiation and assessment of genetic variability of in vitro-cultured Papaver bracteatum (section Oxytona). In Vitro Cellular and Developmental Biology - Plant, 2002, 38, 300-307.	0.9	19

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55	Characterization and primer development for amplification of chloroplast microsatellite regions of Fraxinus excelsior. Journal of Plant Research, 2005, 118, 339-341.	1.2	18
56	Thank you for not flowering: conservation genetics and gene flow analysis of native and non-native populations of Fraxinus (Oleaceae) in Ireland. Heredity, 2014, 112, 596-606.	1.2	18
57	Development and testing of novel chloroplast microsatellite markers for Lolium perenne and other grasses (Poaceae) from de novo sequencing and in silico sequences. Molecular Ecology Notes, 2006, 6, 449-452.	1.7	17
58	Timing and tempo of evolutionary diversification in a biodiversity hotspot: Primulaceae on Indian Ocean islands. Journal of Biogeography, 2014, 41, 810-822.	1.4	17
59	A seed dressing combining fungal endophyte spores and fungicides improves seedling survival and early growth in barley and oat. Symbiosis, 2017, 71, 69-76.	1.2	17
60	Enhancing Secondary Metabolite Production in Medicinal Plants Using Endophytic Elicitors: A Case Study ofCentella asiatica(Apiaceae) and Asiaticoside. , 2019, , 310-327.		17
61	Molecular and Morphological Characterization of Reciprocal F₁Hybrid Ash (Fraxinus) Tj ETQq1 1 0.784314 rgBT /Ove Character Inheritance. International Journal of Plant Sciences, 2011, 172, 423-433.	0.6	16
62	Markers associated with heading and aftermath heading in perennial ryegrass full-sib families. BMC Plant Biology, 2016, 16, 160.	1.6	16
63	Phylogenetic inference of Badula (Primulaceae), a rare and threatened genus endemic to the Mascarene Archipelago. Botanical Journal of the Linnean Society, 2012, 169, 284-296.	0.8	14
64	Endophytes from the crop wild relative Hordeum secalinum L. improve agronomic traits in unstressed and salt-stressed barley. Cogent Food and Agriculture, 2018, 4, 1549195.	0.6	14
65	Variation in inflorescence characters and inflorescence development in ecotypes and cultivars of Lolium perenne L.. Grass and Forage Science, 2010, 65, 398-409.	1.2	12
66	Genetic diversity and floral width variation in introduced and native populations of a long-lived woody perennial. AoB PLANTS, 2015, 7, .	1.2	12
67	Large Trees, Supertrees, and Diversification of the Grass Family. Aliso, 2007, 23, 248-258.	0.4	12
68	Phylogenetics of global Camellia (Theaceae) based on three nuclear regions and its implications for systematics and evolutionary history. Journal of Systematics and Evolution, 2023, 61, 356-368.	1.6	12
69	Typification of names in the genus Camellia (Theaceae). Phytotaxa, 2017, 292, 171.	0.1	11
70	Bleeding canker of horse chestnut (Aesculus hippocastanum) in Ireland: incidence, severity and characterization using <scp>DNA</scp> sequences and realâ€time <scp>PCR</scp>. Plant Pathology, 2016, 65, 1419-1429.	1.2	10
71	Phylogenetics of Taxus Using the Internal Transcribed Spacers of Nuclear Ribosomal DNA and Plastid trnL-F Regions. Horticulturae, 2020, 6, 19.	1.2	10
72	A fungal endophyte consortium counterbalances the negative effects of reduced nitrogen input on the yield of field-grown spring barley. Journal of Agricultural Science, 2017, 155, 1324-1331.	0.6	9

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73	Assignment testing reveals multiple introduced source populations including potential ash hybrids (Fraxinus excelsior Ã— F. angustifolia) in Ireland. European Journal of Forest Research, 2013, 132, 195-209.	1.1	8
74	Taxonomic notes on the genus Piper (Piperaceae). Nordic Journal of Botany, 2016, 34, 605-618.	0.2	8
75	Names of Assam tea: Their priority, typification and nomenclatural notes. Taxon, 2017, 66, 1447-1455.	0.4	8
76	Nuclear SSR Markers for Miscanthus, Saccharum, and Related Grasses (Saccharinae, Poaceae). Applications in Plant Sciences, 2013, 1, 1300042.	0.8	7
77	Phyllanthus kaweesakii (Phyllanthaceae), a new species from Thailand. Botany, 2017, 95, 567-577.	0.5	7
78	Endophyte ecology, diversity and utilisation. Plant Ecology and Diversity, 2018, 11, 551-554.	1.0	7
79	Hidden Fungi: Combining Culture-Dependent and -Independent DNA Barcoding Reveals Inter-Plant Variation in Species Richness of Endophytic Root Fungi in Elymus repens. Journal of Fungi (Basel,) Tj ETQq1 1 0.784314 rgBT /Overloc		
80	Assessing Genotypic and Environmental Effects on Endophyte Communities of Fraxinus (Ash) Using Culture Dependent and Independent DNA Sequencing. Journal of Fungi (Basel, Switzerland), 2021, 7, 565.	1.5	7
81	A taxonomic revision of the genus Eragrostis in Thailand. ScienceAsia, 2013, 39, 111.	0.2	7
82	High levels of variation in Salix lignocellulose genes revealed using poplar genomic resources. Biotechnology for Biofuels, 2013, 6, 114.	6.2	6
83	A taxonomic revision of the genus Dimeria (Poaceae: Panicoideae) in Thailand. Phytotaxa, 2014, 186, 137.	0.1	6
84	Genotyping by Sequencing and Plastome Analysis Finds High Genetic Variability and Geographical Structure in Dactylis glomerata L. in Northwest Europe Despite Lack of Ploidy Variation. Agronomy, 2019, 9, 342.	1.3	6
85	Endophytes for a Growing World. , 2019, , 3-22.		6
86	Synergy between fungal endophytes improves fruit production in strawberry cultivar. Emergent Life Sciences Research, 2019, 5, 29-41.	0.0	6
87	Hybridisation, introgression and climate change: a case study of the tree genus Fraxinus (Oleaceae). , 0, , 320-342.		5
88	A taxonomic revision of the genus Digitaria (Panicoideae: Poaceae) in mainland Southeast Asia. Phytotaxa, 2016, 246, 248.	0.1	5
89	Variation in sequences containing microsatellite motifs in the perennial biomass and forage grass, Phalaris arundinacea (Poaceae). BMC Research Notes, 2016, 9, 184.	0.6	5
90	Emerging Methods for Biological Control of Barley Diseases Including the Role of Endophytes. , 2019, , 93-119.		5

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91	Sphagnum moss as a novel growth medium in sustainable indoor agriculture systems. Current Opinion in Environmental Science and Health, 2021, 22, 100269.	2.1	5
92	Phuphanochloa, a new bamboo genus (Poaceae: Bambusoideae) from Thailand. Kew Bulletin, 2008, 63, 669-673.	0.4	4
93	Long-term fluctuations in atmospheric CO2 concentration influence plant speciation rates. , 0, , 122-140.		4
94	Seasonal and genetic variations in water-soluble carbohydrates and other quality traits in ecotypes and cultivars of perennial ryegrass (Lolium perenneL.). Plant Genetic Resources: Characterisation and Utilisation, 2014, 12, 236-247.	0.4	4
95	Studies in the recent new genus record Pseudostachyum (Poaceae: Bambusoideae) from Thailand: notes on its taxonomy, distribution and habitat. Nordic Journal of Botany, 2014, 32, 51-54.	0.2	4
96	Typification of names in Camellia (Theaceae), II. Phytotaxa, 2018, 351, 93.	0.1	4
97	Prospecting Crop Wild Relatives for Beneficial Endophytes. , 2019, , 390-410.		4
98	Savanna biome evolution, climate change and the ecological expansion of C₄ grasses. , 2011, , 156-175.		3
99	Perceptual selection and the unconscious selection of â€˜volunteerâ€™ seedlings in clonally propagated crops: an example with African cassava (Manihot esculenta Crantz) using ethnobotany and population genetics. Genetic Resources and Crop Evolution, 2017, 64, 665-680.	0.8	3
100	Chimonocalamus elegans, a new temperate woody bamboo species (Poaceae: Bambusoideae) from Doi Phu Kha National Park, Thailand. Phytotaxa, 2017, 302, 97.	0.1	3
101	Matching source and sink: An environmentally tailored fungal endophyte consortium increases yield in three field-grown barley cultivars. Cogent Food and Agriculture, 2018, 4, 1484599.	0.6	3
102	Typification of names in Camellia (Theaceae), III . Phytotaxa, 2019, 415, 298-300.	0.1	3
103	Arundinella kokutensis (Poaceae, Arundinelleae), a new species from south-eastern Thailand. Kew Bulletin, 2009, 64, 747-750.	0.4	2
104	Digitaria isanensissp. nov. and a reinstated taxon ofDigitaria(Poaceae) from Thailand. Nordic Journal of Botany, 2014, 32, 811-814.	0.2	2
105	A new species and two new taxon records of Digitaria (Poaceae: Panicoideae) for Thailand. Phytotaxa, 2014, 161, 283.	0.1	2
106	Chimonocalamus auriculatus, one more new temperate woody bamboo species of the genus (Poaceae:) Tj ETQq0 0 0 rgBT /Overlock 10	0.1	2
107	Old Age Sex: A Parentage Study of Different Age Cohorts in a Native Veteran Pedunculate Oak (<i>Quercus Robur L.</i>) Woodland Using Microsatellite Markers. Biology and Environment, 2013, 113, 1-13.	0.2	2
108	Arundinella kerriiandDimeria kerrii, Two New Endemic Species from Thailand (Poaceae, Panicoideae). Novon, 2011, 21, 149-153.	0.3	1

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109	Integrating ecology and systematics in climate change research. , 2011, , 3-43.		1
110	A taxonomic revision of <I>Germainia</I> (<I>Andropogoneae</I>:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (& 221-228.	0.1	1
111	An Irish perennial ryegrass genetic resource collection clearly divides into two major gene pools. Plant Genetic Resources: Characterisation and Utilisation, 2017, 15, 269-278.	0.4	1
112	New species and a reinstatement in Peperomia (Piperaceae) from Thailand. Kew Bulletin, 2017, 72, 1.	0.4	1
113	The diploid Festuca ovina subsp. ovina (Poaceae) confirmed cytologically for Ireland. New Journal of Botany, 2017, 7, 182-183.	0.2	1
114	In Vitro Methods for Plantâ€“Microbe Interaction and Biocontrol Studies in European Ash (Fraxinus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5		1
115	The Complete Chloroplast Genome Sequence of Perennial Ryegrass (Lolium perenne L.) Reveals Useful Polymorphisms Among European Ecotypes. , 2010, , 409-413.		1
116	Buxus sirindhorniana sp. nov. (Buxaceae), a bicarpellate species from Thailand. Nordic Journal of Botany, 2014, 32, 452-458.	0.2	0
117	Isolation, Diversity and Potential Use of Endophytes in the Biomass and Bioenergy Crop Miscanthus. , 2019, , 188-207.		0
118	A new species of Dendrobium (Orchidaceae:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Tc collection . Phytotaxa, 2019, 419, 197-202.	0.1	0
119	Viola umphangensis (Violaceae), a new species from Thailand. Nordic Journal of Botany, 2020, 38, .	0.2	0
120	Typification of names in Camellia (Theaceae), II. Phytotaxa, 2018, 351, 93.	0.1	0
121	First Report of the Ash Sawfly, Tomostethus nigritus, Established on Fraxinus excelsior in the Republic of Ireland. Insects, 2022, 13, 6.	1.0	0