Freek T Bakker

List of Publications by Year
in descending order

58 papers	4,417 citations	126907 33 h-index	138484 58 g-index
60 all docs	60 docs citations	60 times ranked	6152 citing authors

#	Article	IF	Citations
1	Exploring genetic variation in the tomato (Solanum section Lycopersicon) clade by wholeâ€genome sequencing. Plant Journal, 2014, 80, 136-148.	5.7	397
2	Phylogenetic analysis of Phytophthora species based on mitochondrial and nuclear DNA sequences. Fungal Genetics and Biology, 2004, 41, 766-782.	2.1	383
3	Molecular Phylogenetics, Temporal Diversification, and Principles of Evolution in the Mustard Family (Brassicaceae). Molecular Biology and Evolution, 2010, 27, 55-71.	8.9	306
4	How to Open the Treasure Chest? Optimising DNA Extraction from Herbarium Specimens. PLoS ONE, 2012, 7, e43808.	2.5	220
5	Genomic Treasure Troves: Complete Genome Sequencing of Herbarium and Insect Museum Specimens. PLoS ONE, 2013, 8, e69189.	2.5	215
6	Origin and diversification of the Greater Cape flora: Ancient species repository, hot-bed of recent radiation, or both?. Molecular Phylogenetics and Evolution, 2009, 51, 44-53.	2.7	198
7	DNA Damage in Plant Herbarium Tissue. PLoS ONE, 2011, 6, e28448.	2.5	166
8	Herbarium genomics: plastome sequence assembly from a range of herbarium specimens using an Iterative Organelle Genome Assembly pipeline. Biological Journal of the Linnean Society, 2016, 117, 33-43.	1.6	148
9	Phylogeny, Function, and Evolution of the Cupins, a Structurally Conserved, Functionally Diverse Superfamily of Proteins. Molecular Biology and Evolution, 2001, 18, 593-605.	8.9	146
10	DNA Barcoding of Recently Diverged Species: Relative Performance of Matching Methods. PLoS ONE, 2012, 7, e30490.	2.5	144
11	Chloroplast Phylogeny of Asplenioid Ferns based on rbcL and trnL-F Spacer Sequences (Polypodiidae,) Tj ETQq1 1 0.784314 rgBT /Ove	0.5	118
12	Positive selection in phytotoxic protein-encoding genes of Botrytis species. Fungal Genetics and Biology, 2007, 44, 52-63.	2.1	104
13	Evolution of nuclear rDNA its sequences in the Cladophora albida/sericea clade (Chlorophyta). Journal of Molecular Evolution, 1995, 40, 640-651.	1.8	99
14	Largeâ€scale genomic sequence data resolve the deepest divergences in the legume phylogeny and support a nearâ€simultaneous evolutionary origin of all six subfamilies. New Phytologist, 2020, 225, 1355-1369.	7.3	94
15	Reconstructing patterns of reticulate evolution in angiosperms: what can we do?. Taxon, 2005, 54, 593-604.	0.7	92
16	In Silico Characterization and Molecular Evolutionary Analysis of a Novel Superfamily of Fungal Effector Proteins. Molecular Biology and Evolution, 2012, 29, 3371-3384.	8.9	90
17	NUCLEAR RIBOSOMAL DNA INTERNAL TRANSCRIBED SPACER REGIONS (ITS1 AND ITS2) DEFINE DISCRETE BIOGEOGRAPHIC GROUPS IN CLADOPHORA ALBIDA (CHLOROPHYTA)1. Journal of Phycology, 1992, 28, 839-845.	2.3	87
18	Molecular phylogenetics and character evolution of Cannabaceae. Taxon, 2013, 62, 473-485.	0.7	85

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19	The Origin of the Legumes is a Complex Paleopolyploid Phylogenomic Tangle Closely Associated with the Cretaceousâ€“Paleogene (Kâ€“Pg) Mass Extinction Event. Systematic Biology, 2021, 70, 508-526.	5.6	83
20	Herbarium genomics: skimming and plastomics from archival specimens. Webbia, 2017, 72, 35-45.	0.3	81
21	The Global Museum: natural history collections and the future of evolutionary science and public education. PeerJ, 2020, 8, e8225.	2.0	81
22	Biomass partitioning and root morphology of savanna trees across a water gradient. Journal of Ecology, 2012, 100, 1113-1121.	4.0	80
23	Patterns of Nucleotide Substitution in Angiosperm cpDNA trnL (UAA)â€“trnF (GAA) Regions. Molecular Biology and Evolution, 2000, 17, 1146-1155.	8.9	73
24	Phylogenetic relationships withinPelargonium sect.Peristera (Geraniaceae) inferred from nrDNA and cpDNA sequence comparisons. Plant Systematics and Evolution, 1998, 211, 273-287.	0.9	65
25	Global phylogeography in the cosmopolitan speciesCladophora vagabunda(Chlorophyta) based on nuclear rDNA internal transcribed spacer sequences. European Journal of Phycology, 1995, 30, 197-208.	2.0	62
26	Phylogeny of Pelargonium (Geraniaceae) Based on DNA Sequences from Three Genomes. Taxon, 2004, 53, 17.	0.7	62
27	The Cladophora Complex (Chlorophyta): New Views Based on 185 rRNA Gene Sequences. Molecular Phylogenetics and Evolution, 1994, 3, 365-382.	2.7	56
28	Bias and conflict in phylogenetic inference of mycoâ€heterotrophic plants: a case study in Thismiaceae. Cladistics, 2009, 25, 64-77.	3.3	54
29	LEAF SHAPE EVOLUTION IN THE SOUTH AFRICAN GENUSPELARGONIUMLâ€™ HÃ‰R. (GERANIACEAE). Evolution; International Journal of Organic Evolution, 2009, 63, 479-497.	2.3	51
30	Mitochondrial and chloroplast DNA-based phylogeny ofPelargonium(Geraniaceae). American Journal of Botany, 2000, 87, 727-734.	1.7	46
31	Ancient paralogy in the cpDNA trnLâ€F region in Annonaceae: implications for plant molecular systematics. American Journal of Botany, 2007, 94, 1003-1016.	1.7	46
32	Phylogenetic and biosystematic relationships in four highly disjunct polyploid complexes in the subgenera and in (Aspleniaceae). Organisms Diversity and Evolution, 2002, 2, 299-311.	1.6	40
33	A trnL-F based phylogeny for species ofPelargonium (Geraniaceae) with small chromosomes. Plant Systematics and Evolution, 1999, 216, 309-324.	0.9	38
34	DNA sequence evolution in fast evolving mitochondrial DNA nad1 exons in Geraniaceae and Plantaginaceae. Taxon, 2006, 55, 887-896.	0.7	31
35	A synopsis of Soyauxia (Peridiscaceae, formerly Medusandraceae) with a new species from Liberia. Plant Ecology and Evolution, 2015, 148, 409-419.	0.7	31
36	Phylogenetics of Stelis and closely related genera (Orchidaceae: Pleurothallidinae). Plant Systematics and Evolution, 2013, 299, 151-176.	0.9	26

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37	Phylogenetic relationships within Lactuca L. (Asteraceae), including African species, based on chloroplast DNA sequence comparisons. Genetic Resources and Crop Evolution, 2017, 64, 55-71.	1.6	25
38	Phylogeny of Pelargonium (Geraniaceae) based on DNA sequences from three genomes. Taxon, 2004, 53, 17-31.	0.7	24
39	Enrichment of G4DNA and a Large Inverted Repeat Coincide in the Mitochondrial Genomes of Termitomyces. Genome Biology and Evolution, 2019, 11, 1857-1869.	2.5	23
40	Effects of changing climate on species diversification in tropical forest butterflies of the genusCymothoe(Lepidoptera: Nymphalidae). Biological Journal of the Linnean Society, 2013, 108, 546-564.	1.6	21
41	Phylogenetic reassessment of Specklinia and its allied genera in the Pleurothallidinae (Orchidaceae). Phytotaxa, 2016, 272, 1.	0.3	21
42	Phylogenetic relationships of Biebersteinia Stephan (Geraniaceae) inferred from rbcL and atpB sequence comparisons. Botanical Journal of the Linnean Society, 1998, 127, 149-158.	1.6	19
43	Plastome based phylogenetics and younger crown node age in Pelargonium. Molecular Phylogenetics and Evolution, 2019, 137, 33-43.	2.7	19
44	Consistent phenological shifts in the making of a biodiversity hotspot: the Cape flora. BMC Evolutionary Biology, 2011, 11, 39.	3.2	17
45	Organic matter reduces the amount of detectable environmental DNA in freshwater. Ecology and Evolution, 2020, 10, 3647-3654.	1.9	17
46	Leucineâ€rich repeat receptorâ€like kinase II phylogenetics reveals five main clades throughout the plant kingdom. Plant Journal, 2020, 103, 547-560.	5.7	17
47	A new hidden species of the Cymothoe caenis-complex (Lepidoptera: Nymphalidae) from western Africa. Zootaxa, 2009, 2197, 53-63.	0.5	15
48	Evidence for two domestication lineages supporting a middle-eastern origin forBrassica oleraceacrops from diversified kale populations. Horticulture Research, 2022, 9, .	6.3	15
49	Biosystematic study of Pelargonium section Ligularia: 4. The section Ligularia sensu stricto. South African Journal of Botany, 2000, 66, 31-43.	2.5	13
50	The phylogeny of Monsonia L. (Geraniaceae). Plant Systematics and Evolution, 2007, 264, 1-14.	0.9	13
51	Using multi-locus allelic sequence data to estimate genetic divergence among four Lilium (Liliaceae) cultivars. Frontiers in Plant Science, 2014, 5, 567.	3.6	9
52	Phylogenetics of African <I>Rinorea</I> (Violaceae): Elucidating Infrageneric Relationships Using Plastid and Nuclear DNA Sequences. Systematic Botany, 2015, 40, 174-184.	0.5	9
53	Editorial: Herbarium Collection-Based Plant Evolutionary Genetics and Genomics. Frontiers in Ecology and Evolution, 2020, 8, .	2.2	8
54	Herbarium Genomics: Plant Archival DNA Explored. Population Genomics, 2018, , 205-224.	0.5	7

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55	Interspecific Hybrids Between Pelargonium Ã— hortorum and Species From P. Section Ciconium Reveal Biparental Plastid Inheritance and Multi-Locus Cyto-Nuclear Incompatibility. Frontiers in Plant Science, 2020, 11, 614871.	3.6	4
56	Capturing variation in floral shape: a virtual3D based morphospace for Pelargonium. PeerJ, 2020, 8, e8823.	2.0	4
57	Repeatome-Based Phylogenetics in Pelargonium Section Ciconium (Sweet) Harvey. Genome Biology and Evolution, 2021, 13, .	2.5	4
58	Annonaceae substitution rates: a codon model perspective. Revista Brasileira De Fruticultura, 2014, 36, 108-117.	0.5	1