Da-Yong Zhang

List of Publications by Year
in descending order

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		147801	168389
92	3,316	31	53
papers	citations	h-index	g-index

108	108	108	3641
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nuclear and chloroplast DNA phylogeography reveal two refuge areas with asymmetrical gene flow in a temperate walnut tree from East Asia. New Phytologist, 2010, 188, 892-901.	7.3	213
2	Prediction of yeast protein-protein interaction network: insights from the Gene Ontology and annotations. Nucleic Acids Research, 2006, 34, 2137-2150.	14.5	193
3	Genetic uniformity characterizes the invasive spread of water hyacinth (Eichhornia crassipes), a clonal aquatic plant. Molecular Ecology, 2010, 19, 1774-1786.	3.9	186
4	Multiple glacial refugia for coolâ€temperate deciduous trees in northern East Asia: the Mongolian oak as a case study. Molecular Ecology, 2015, 24, 5676-5691.	3.9	138
5	Donald's ideotype and growth redundancy: a game theoretical analysis. Field Crops Research, 1999, 61, 179-187.	5.1	123
6	Geographic variation in the structure of oak hybrid zones provides insights into the dynamics of speciation. Molecular Ecology, 2011, 20, 4995-5011.	3.9	114
7	Phylogeographic breaks within Asian butternuts indicate the existence of a phytogeographic divide in East Asia. New Phytologist, 2016, 209, 1757-1772.	7.3	101
8	Demographically idiosyncratic responses to climate change and rapid Pleistocene diversification of the walnut genus Juglans (Juglandaceae) revealed by wholeâ€genome sequences. New Phytologist, 2018, 217, 1726-1736.	7.3	98
9	Migration, Metapopulation Dynamics and Fugitive Co-existence. Journal of Theoretical Biology, 1993, 163, 491-504.	1.7	90
10	Phylogeny and biogeography of the rice tribe (Oryzeae): Evidence from combined analysis of 20 chloroplast fragments. Molecular Phylogenetics and Evolution, 2010, 54, 266-277.	2.7	87
11	A NEARLY NEUTRAL MODEL OF BIODIVERSITY. Ecology, 2008, 89, 248-258.	3.2	81
12	Contrasts between the phylogeographic patterns of chloroplast and nuclear DNA highlight a role for pollen-mediated gene flow in preventing population divergence in an East Asian temperate tree. Molecular Phylogenetics and Evolution, 2014, 81, 37-48.	2.7	81
13	Phylogenomics Reveals an Ancient Hybrid Origin of the Persian Walnut. Molecular Biology and Evolution, 2019, 36, 2451-2461.	8.9	79
14	Resource availability and biodiversity effects on the productivity, temporal variability and resistance of experimental algal communities. Oikos, 2006, 114, 385-396.	2.7	74
15	Life history trait differentiation and local adaptation in invasive populations of Ambrosia artemisiifolia in China. Oecologia, 2015, 177, 669-677.	2.0	67
16	The Effects of Competitive Asymmetry on the Rate of Competitive Displacement: How Robust is Hubbell's Community Drift Model?. Journal of Theoretical Biology, 1997, 188, 361-367.	1.7	66
17	Species richness destabilizes ecosystem functioning in experimental aquatic microcosms. Oikos, 2006, 112, 218-226.	2.7	61
18	Coexistence of cryptic species. Ecology Letters, 2004, 7, 165-169.	6.4	58

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19	Phylogeography of postglacial range expansion in Juglans mandshurica (Juglandaceae) reveals no evidence of bottleneck, loss of genetic diversity, or isolation by distance in the leading-edge populations. Molecular Phylogenetics and Evolution, 2016, 102, 255-264.	2.7	57
20	Exploring Species Limits in Two Closely Related Chinese Oaks. PLoS ONE, 2010, 5, e15529.	2.5	56
21	Influence of harvest time on fuel characteristics of five potential energy crops in northern China. Bioresource Technology, 2008, 99, 479-485.	9.6	54
22	Mating patterns and pollen dispersal in a heterodichogamous tree, Juglans mandshurica (Juglandaceae). New Phytologist, 2007, 176, 699-707.	7.3	53
23	Evolutionarily Stable Reproductive Strategies in Sexual Organisms: An Integrated Approach to Life-History Evolution and Sex Allocation. American Naturalist, 1994, 144, 65-75.	2.1	49
24	An initial strategy for comparing proteins at the domain architecture level. Bioinformatics, 2006, 22, 2081-2086.	4.1	46
25	The incidence and pattern of copollinator diversification in dioecious and monoecious figs. Evolution; International Journal of Organic Evolution, 2015, 69, 294-304.	2.3	43
26	Temperature responses of mutation rate and mutational spectrum in an Escherichia coli strain and the correlation with metabolic rate. BMC Evolutionary Biology, 2018, 18, 126.	3.2	43
27	Female reproductive success decreases with display size in monkshood, Aconitum kusnezoffii (Ranunculaceae). Annals of Botany, 2009, 104, 1405-1412.	2.9	35
28	Evolutionarily Stable Reproductive Strategies in Sexual Organisms. II. Dioecy and Optimal Resource Allocation. American Naturalist, 1996, 147, 1115-1123.	2.1	34
29	The excess of 5' introns in eukaryotic genomes. Nucleic Acids Research, 2005, 33, 6522-6527.	14.5	34
30	No Evolutionary Shift in the Mating System of North American Ambrosia artemisiifolia (Asteraceae) Following Its Introduction to China. PLoS ONE, 2012, 7, e31935.	2.5	34
31	Flowering Phenology and Wind-pollination Efficacy of Heterodichogamous Juglans mandshurica (Juglandaceae). Annals of Botany, 2006, 98, 397-402.	2.9	32
32	Colonization sequence influences selection and complementarity effects on biomass production in experimental algal microcosms. Oikos, 2007, 116, 1748-1758.	2.7	32
33	Donaldâ€™s Ideotype and Growth Redundancy: A Pot Experimental Test Using an Old and a Modern Spring Wheat Cultivar. PLoS ONE, 2013, 8, e70006.	2.5	32
34	Resource Allocation and the Evolution of Selfâ€Fertilization in Plants. American Naturalist, 2000, 155, 187-199.	2.1	31
35	Consequences of individual species loss in biodiversity experiments: An essentiality index. Acta Oecologica, 2007, 32, 236-242.	1.1	29
36	The Role of Late-Acting Self-Incompatibility and Early-Acting Inbreeding Depression in Governing Female Fertility in Monkshood, Aconitum kusnezoffii. PLoS ONE, 2012, 7, e47034.	2.5	28

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37	Does spatial structure facilitate coexistence of identical competitors?. Ecological Modelling, 2005, 181, 17-23.	2.5	26
38	Co-regulation of photosynthetic capacity by nitrogen, phosphorus and magnesium in a subtropical Karst forest in China. Scientific Reports, 2018, 8, 7406.	3.3	24
39	Strand Compositional Asymmetries of Nuclear DNA in Eukaryotes. Journal of Molecular Evolution, 2003, 57, 325-334.	1.8	23
40	Demographic tradeâ€offs in a neutral model explain deathâ€rateâ€“abundanceâ€rank relationship. Ecology, 2009, 90, 31-38.	3.2	23
41	Evolution alters ecological mechanisms of coexistence in experimental microcosms. Functional Ecology, 2016, 30, 1440-1446.	3.6	23
42	Sexual Reproduction and Stable Coexistence of Identical Competitors. Journal of Theoretical Biology, 1998, 193, 465-473.	1.7	22
43	SPIDer: Saccharomyces protein-protein interaction database. BMC Bioinformatics, 2006, 7, S16.	2.6	22
44	Adaptive Significance of Flexistyly in Alpinia blepharocalyx (Zingiberaceae): A Hand-pollination Experiment. Annals of Botany, 2006, 99, 661-666.	2.9	22
45	Different rates of pollen and seed gene flow cause branchâ€length and geographic cytonuclear discordance within Asian butternuts. New Phytologist, 2021, 232, 388-403.	7.3	21
46	Dead-End Hybridization in Walnut Trees Revealed by Large-Scale Genomic Sequence Data. Molecular Biology and Evolution, 2022, 39, .	8.9	21
47	The effects of initial population density on the competition for limiting nutrients in two freshwater algae. Oecologia, 1993, 96, 569-574.	2.0	20
48	Field experimental evidence that stochastic processes predominate in the initial assembly of bacterial communities. Environmental Microbiology, 2016, 18, 1730-1739.	3.8	20
49	Overlapping genes as rare genomic markers: the phylogeny of Î³-Proteobacteria as a case study. Trends in Genetics, 2006, 22, 593-596.	6.7	19
50	Spatiotemporal change in the climatic growing season in Northeast China during 1960â€“2009. Theoretical and Applied Climatology, 2013, 111, 693-701.	2.8	19
51	Interactive effects of habitat productivity and herbivore pressure on the evolution of anti-herbivore defense in invasive plant populations. Journal of Theoretical Biology, 2006, 242, 935-940.	1.7	18
52	Pollen and Resource Limitation in Veratrum nigrum L. (Liliaceae), an Andromonoecious Herb. Journal of Integrative Plant Biology, 2006, 48, 1401-1408.	8.5	17
53	Genome-wide inference of protein interaction sites: lessons from the yeast high-quality negative proteinâ€“protein interaction dataset. Nucleic Acids Research, 2008, 36, 2002-2011.	14.5	17
54	Experimental analysis of mating patterns in a clonal plant reveals contrasting modes of selfâ€pollination. Ecology and Evolution, 2015, 5, 5423-5431.	1.9	17

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55	Contrasting grass nitrogen strategies reflect interspecific trade-offs between nitrogen acquisition and use in a semi-arid temperate grassland. Plant and Soil, 2017, 418, 267-276.	3.7	17
56	Local Mate Competition Promotes Coexistence of Similar Competitors. Journal of Theoretical Biology, 1995, 177, 167-170.	1.7	16
57	BPhyOG: An interactive server for genome-wide inference of bacterial phylogenies based on overlapping genes. BMC Bioinformatics, 2007, 8, 266.	2.6	16
58	The nature of interspecific interactions and coâ€diversification patterns, as illustrated by the fig microcosm. New Phytologist, 2019, 224, 1304-1315.	7.3	16
59	<scp>tetra</scp>: an improved program for population genetic analysis of allotetraploid microsatellite data. Molecular Ecology Resources, 2008, 8, 1260-1262.	4.8	15
60	Evolutionarily Stable Reproductive Strategies in Sexual Organisms: III. The Effects of Lottery Density Dependence and Pollen Limitation. Journal of Theoretical Biology, 1997, 185, 223-231.	1.7	14
61	Increased Maleness at Flowering Stage and Femaleness at Fruiting Stage with Size in an Andromonoecious Perennial,Veratrum nigrum. Journal of Integrative Plant Biology, 2008, 50, 1024-1030.	8.5	14
62	Invasion genetics of Senecio vulgaris: loss of genetic diversity characterizes the invasion of a selfing annual, despite multiple introductions. Biological Invasions, 2017, 19, 255-267.	2.4	14
63	Evolutionarily Stable Reproductive Strategies in Sexual Organisms: IV. Parent-Offspring Conflict and Selection of Seed Size in Perennial Plants. Journal of Theoretical Biology, 1998, 192, 143-153.	1.7	12
64	Costly Solicitation, Timing of Offspring Conflict, and Resource Allocation in Plants. Annals of Botany, 2000, 86, 123-131.	2.9	12
65	Variation in Floral Sex Allocation and Reproductive Success in Sequentially Flowering Inflorescence of Corydalis remota var. lineariloba (Fumariaceae). Journal of Integrative Plant Biology, 2009, 51, 299-307.	8.5	12
66	Development of microsatellite loci for Blastophaga javana (Agaonidae), the pollinating wasp of Ficus hirta (Moraceae). American Journal of Botany, 2011, 98, e41-3.	1.7	12
67	The properties of hub proteins in a yeastâ€aggregated cell cycle network and its phase subâ€networks. Proteomics, 2009, 9, 4812-4824.	2.2	10
68	Local biotic interactions drive species-specific divergence in soil bacterial communities. ISME Journal, 2019, 13, 2846-2855.	9.8	10
69	Population-genomic analyses reveal bottlenecks and asymmetric introgression from Persian into iron walnut during domestication. Genome Biology, 2022, 23, .	8.8	10
70	Evolutionarily Stable Reproductive Strategies in Sexual Organisms. Part Vâ€”Joint Effects of Parentâ€“offspring Conflict and Sibling Conflict in Perennial Plants. Journal of Theoretical Biology, 1998, 192, 275-281.	1.7	9
71	The rhythmic expression of genes controlling flowering time in southern and northern populations of invasive Ambrosia artemisiifolia. Journal of Plant Ecology, 2015, 8, 207-212.	2.3	9
72	Warmer temperatures enhance beneficial mutation effects. Journal of Evolutionary Biology, 2020, 33, 1020-1027.	1.7	9

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73	Demographic model of admixture predicts symmetric introgression when a species expands into the range of another: A comment on Currat et al. (2008). Journal of Systematics and Evolution, 2014, 52, 35-39.	3.1	8
74	A comparison of reproductive isolation between two closely related oak species in zones of recent and ancient secondary contact. BMC Evolutionary Biology, 2019, 19, 70.	3.2	8
75	Differences in Weed Suppression between Two Modern and Two Old Wheat Cultivars at Different Sowing Densities. Agronomy, 2021, 11, 253.	3.0	8
76	The functional significance of a stigma color polymorphism in Acer pictum subsp. mono (Aceraceae). Journal of Plant Ecology, 2015, 8, 166-172.	2.3	7
77	Lower sensitivity in responses to root competition and soil resource availability in a new wheat cultivar than in an old wheat landrace. Plant and Soil, 2020, 450, 557-565.	3.7	7
78	Is Heterozygous Advantage Necessary for Polymorphism in One-locus Two-allele Systems?. Journal of Theoretical Biology, 1994, 166, 245-250.	1.7	6
79	Small effective population size in microrefugia?. Journal of Systematics and Evolution, 2015, 53, 163-165.	3.1	4
80	Dispersal as a result of asymmetrical hybridization between two closely related oak species in China. Molecular Phylogenetics and Evolution, 2021, 154, 106964.	2.7	4
81	ï»¿The rediscovery of Carya poilanei (Juglandaceae) after 63 years reveals a new record from China. PhytoKeys, 2022, 188, 73-82.	1.0	4
82	Habitat effects on reproductive phenotype, pollinator behavior, fecundity, and mating outcomes of a bumble beeâ€“pollinated herb. American Journal of Botany, 2022, 109, 470-485.	1.7	4
83	Does weed suppression by high crop density depend on crop spatial pattern and soil water availability?. Basic and Applied Ecology, 2022, 61, 20-29.	2.7	4
84	Recent demographic histories of temperate deciduous trees inferred from microsatellite markers. Bmc Ecology and Evolution, 2021, 21, 88.	1.6	3
85	Effects of latitudinal variation on field and common garden comparisons between native and introduced groundsel (Senecio vulgaris) populations. Journal of Plant Ecology, 2021, 14, 414-424.	2.3	3
86	Differential Selection in Sexes, Genetic Drift, and Stable Coexistence of Identical Species. Oikos, 1993, 68, 177.	2.7	2
87	Competitive hierarchies inferred from pair-wise and multi-species competition experiments. Acta Oecologica, 2012, 38, 66-70.	1.1	2
88	Maleâ€biased sex allocation in lateâ€blooming flowers driven by resource limitation in the clonal perennial Aconitum kusnezoffii (Ranunculaceae). Journal of Systematics and Evolution, 0, , .	3.1	2
89	Effects of plant interactions on the populations of the endangered Fagus pashanica. Plant Ecology and Diversity, 0, , 1-13.	2.4	2
90	Dispersal Limitation Favors More Fecund Species in the Presence of Fitness-Equalizing Demographic Trade-Offs. American Naturalist, 2015, 185, 620-630.	2.1	1

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91	Isolation and characterization of microsatellite loci from three cryptic species of Ceratosolen emarginatus. Entomological Science, 2016, 19, 301-303.	0.6	1
92	Development of polymorphic microsatellite loci for Ceratosolen gravelyi (Hymenoptera: Agaonidae), the pollinating wasp of Ficus semicordata (Urticales: Moraceae). Applied Entomology and Zoology, 2019, 54, 129-132.	1.2	0