Michael Kessler

List of Publications by Year
in descending order

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120	7,868	87723 38	60497 81
papers	citations	h-index	g-index

120	120	120	11655
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Climatologies at high resolution for the earthâ€™s land surface areas. Scientific Data, 2017, 4, 170122.	2.4	2,247
2	Multifunctional shade-tree management in tropical agroforestry landscapes - a review. Journal of Applied Ecology, 2011, 48, 619-629.	1.9	527
3	Global traitâ€“environment relationships of plant communities. Nature Ecology and Evolution, 2018, 2, 1906-1917.	3.4	397
4	What drives elevational patterns of diversity? A test of geometric constraints, climate and species pool effects for pteridophytes on an elevational gradient in Costa Rica. Global Ecology and Biogeography, 2006, 15, 358-371.	2.7	220
5	A global comparative analysis of elevational species richness patterns of ferns. Global Ecology and Biogeography, 2011, 20, 868-880.	2.7	196
6	sPlot â€“ A new tool for global vegetation analyses. Journal of Vegetation Science, 2019, 30, 161-186.	1.1	185
7	Title is missing!. Plant Ecology, 2000, 149, 181-193.	0.7	159
8	Title is missing!. Biodiversity and Conservation, 2001, 10, 1897-1921.	1.2	156
9	Phylogenetic diversity, trait diversity and niches: species assembly of ferns along a tropical elevational gradient. Journal of Biogeography, 2011, 38, 394-405.	1.4	155
10	Phylogenetic classification of the worldâ€™s tropical forests. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1837-1842.	3.3	144
11	Global patterns and drivers of phylogenetic structure in island floras. Scientific Reports, 2015, 5, 12213.	1.6	123
12	Biodiversity effects on ecosystem functioning change along environmental stress gradients. Ecology Letters, 2013, 16, 568-569.	3.0	108
13	New Guinea has the worldâ€™s richest island flora. Nature, 2020, 584, 579-583.	13.7	108
14	Pteridophyte species richness in Andean forests in Bolivia. Biodiversity and Conservation, 2001, 10, 1473-1495.	1.2	94
15	Predicting bee community responses to land-use changes: Effects of geographic and taxonomic biases. Scientific Reports, 2016, 6, 31153.	1.6	92
16	Environmentally driven extinction and opportunistic origination explain fern diversification patterns. Scientific Reports, 2017, 7, 4831.	1.6	92
17	EpiList 1.0: a global checklist of vascular epiphytes. Ecology, 2021, 102, e03326.	1.5	82
18	Panâ€tropical prediction of forest structure from the largest trees. Global Ecology and Biogeography, 2018, 27, 1366-1383.	2.7	78

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19	Midpoint attractors and species richness: Modelling the interaction between environmental drivers and geometric constraints. Ecology Letters, 2016, 19, 1009-1022.	3.0	75
20	The effect of area on local and regional elevational patterns of species richness. Journal of Biogeography, 2011, 38, 1177-1185.	1.4	72
21	Effects of altitude and climate in determining elevational plant species richness patterns: A case study from Los Tuxtlas, Mexico. Flora: Morphology, Distribution, Functional Ecology of Plants, 2013, 208, 197-210.	0.6	68
22	Eurasian origin, boreotropical migration and transoceanic dispersal in the pantropical fern genus Diplazium (Athyriaceae). Journal of Biogeography, 2015, 42, 1809-1819.	1.4	68
23	Bryophyte cover on trees as proxy for air humidity in the tropics. Ecological Indicators, 2012, 20, 277-281.	2.6	66
24	Diversity patterns of ferns along elevational gradients in Andean tropical forests. Plant Ecology and Diversity, 2015, 8, 13-24.	1.0	65
25	Relict high-Andean ecosystems challenge our concepts of naturalness and human impact. Scientific Reports, 2017, 7, 3334.	1.6	59
26	Global patterns and drivers of alpine plant species richness. Global Ecology and Biogeography, 2021, 30, 1218-1231.	2.7	59
27	Delineating probabilistic species pools in ecology and biogeography. Global Ecology and Biogeography, 2016, 25, 489-501.	2.7	57
28	Neoâ€•and Paleopolyploidy contribute to the species diversity of Aspleniumâ€”the most speciesâ€rich genus of ferns. Journal of Systematics and Evolution, 2017, 55, 353-364.	1.6	51
29	Limited protection and ongoing loss of tropical cloud forest biodiversity and ecosystems worldwide. Nature Ecology and Evolution, 2021, 5, 854-862.	3.4	51
30	Microhabitat partitioning promotes plant diversity in a tropical montane forest. Global Ecology and Biogeography, 2011, 20, 558-569.	2.7	50
31	Morphological and behavioural adaptations to feed on nectar: how feeding ecology determines the diversity and composition of hummingbird assemblages. Journal of Ornithology, 2015, 156, 333-347.	0.5	49
32	sPlotOpen â€“ An environmentally balanced, openâ€access, global dataset of vegetation plots. Global Ecology and Biogeography, 2021, 30, 1740-1764.	2.7	49
33	Taxonomical and distributional notes on Polylepis (Rosaceae). Organisms Diversity and Evolution, 2006, 6, 67-69.	0.7	48
34	Fern endemism and its correlates: contribution from an elevational transect in Costa Rica. Diversity and Distributions, 2006, 12, 535-545.	1.9	47
35	Diversity and community composition of euglossine bee assemblages (Hymenoptera: Apidae) in western Amazonia. Biodiversity and Conservation, 2011, 20, 2981-3001.	1.2	45
36	Can Joint Carbon and Biodiversity Management in Tropical Agroforestry Landscapes Be Optimized?. PLoS ONE, 2012, 7, e47192.	1.1	44

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37	Historic and recent fragmentation coupled with altitude affect the genetic population structure of one of the world's highest tropical tree line species. Global Ecology and Biogeography, 2012, 21, 455-464.	2.7	43
38	Prodromus of a fern flora for Bolivia. I. General introduction and key to families. Phytotaxa, 2017, 327, 57.	0.1	43
39	A comparison of alpha and beta diversity patterns of ferns, bryophytes and macrolichens in tropical montane forests of southern Ecuador. Biodiversity and Conservation, 2010, 19, 2359-2369.	1.2	42
40	Costâ€effectiveness of plant and animal biodiversity indicators in tropical forest and agroforest habitats. Journal of Applied Ecology, 2011, 48, 330-339.	1.9	41
41	Biogeography of ferns. , 2010, , 22-60.		40
42	Targeted Capture of Hundreds of Nuclear Genes Unravels Phylogenetic Relationships of the Diverse Neotropical Palm Tribe Geonomateae. Frontiers in Plant Science, 2019, 10, 864.	1.7	40
43	Global fern and lycophyte richness explained: How regional and local factors shape plot richness. Journal of Biogeography, 2020, 47, 59-71.	1.4	40
44	Influence of niche characteristics and forest type on fern species richness, abundance and plant size along an elevational gradient in Costa Rica. Plant Ecology, 2011, 212, 1109-1121.	0.7	38
45	Non-geographic collecting biases in herbarium specimens of Australian daisies (Asteraceae). Biodiversity and Conservation, 2013, 22, 905-919.	1.2	37
46	Contrasting biodiversityâ€“ecosystem functioning relationships in phylogenetic and functional diversity. New Phytologist, 2016, 212, 409-420.	3.5	36
47	Range size and its ecological correlates among the pteridophytes of Carrasco National Park, Bolivia. Global Ecology and Biogeography, 2002, 11, 89-102.	2.7	35
48	Modelling tree height to assess climatic conditions at tree lines in the Bolivian Andes. Ecological Modelling, 2007, 207, 223-233.	1.2	35
49	Inaccessible ledges as refuges for the natural vegetation of the high Andes. Journal of Vegetation Science, 2014, 25, 1225-1234.	1.1	35
50	The importance of species pool size for community composition. Ecography, 2015, 38, 1243-1253.	2.1	34
51	Molecular ecology studies of species radiations: current research gaps, opportunities and challenges. Molecular Ecology, 2017, 26, 2608-2622.	2.0	34
52	Biogeography of the Gondwanan tree fern family Dicksoniaceaeâ€”A tale of vicariance, dispersal and extinction. Journal of Biogeography, 2017, 44, 2648-2659.	1.4	34
53	Species richnessâ€“productivity relationships of tropical terrestrial ferns at regional and local scales. Journal of Ecology, 2014, 102, 1623-1633.	1.9	33
54	Island biogeography from regional to local scales: evidence for a spatially scaled echo pattern of fern diversity in the Southeast Asian archipelago. Journal of Biogeography, 2014, 41, 250-260.	1.4	33

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55	Accessibility predicts structural variation of Andean Polylepis forests. Biodiversity and Conservation, 2011, 20, 1789-1802.	1.2	32
56	Evolutionary patterns in the assembly of fern diversity on the oceanic Mascarene Islands. Journal of Biogeography, 2014, 41, 1651-1663.	1.4	32
57	A review of symbiotic fungal endophytes in lycophytes and ferns â€“ a global phylogenetic and ecological perspective. Symbiosis, 2017, 71, 77-89.	1.2	31
58	The role of hummingbirds in the evolution and diversification of Bromeliaceae: unsupported claims and untested hypotheses. Botanical Journal of the Linnean Society, 2020, 192, 592-608.	0.8	31
59	Elevational patterns of Polylepis tree height (Rosaceae) in the high Andes of Peru: role of human impact and climatic conditions. Frontiers in Plant Science, 2014, 5, 194.	1.7	30
60	A transcontinental comparison of the diversity and composition of tropical forest understory herb assemblages. Biodiversity and Conservation, 2013, 22, 755-772.	1.2	29
61	Species richness and vertical distribution of ferns and lycophytes along an elevational gradient in Los Tuxtlas, Veracruz, Mexico. Flora: Morphology, Distribution, Functional Ecology of Plants, 2017, 235, 83-91.	0.6	29
62	Latitudeâ€independent, continentâ€wide consistency in climateâ€“richness relationships in Asian ferns and lycophytes. Journal of Biogeography, 2019, 46, 981-991.	1.4	29
63	Alansmia, a new genus of grammitid ferns (Polypodiaceae) segregated from Terpsichore. Brittonia, 2011, 63, 233-244.	0.8	28
64	Why tree lines are lower on islandsâ€”Climatic and biogeographic effects hold the answer. Global Ecology and Biogeography, 2019, 28, 839-850.	2.7	28
65	A revised generic classification of vittarioid ferns (Pteridaceae) based on molecular, micromorphological, and geographic data. Taxon, 2016, 65, 708-722.	0.4	27
66	Diverse marsh plant communities are more consistently productive across a range of different environmental conditions through functional complementarity. Journal of Applied Ecology, 2011, 48, 1117-1124.	1.9	26
67	Conservation value of disturbed and secondary forests for ferns and lycophytes along an elevational gradient in Mexico. Applied Vegetation Science, 2017, 20, 662-672.	0.9	26
68	The role of dispersal ability, climate and spatial separation in shaping biogeographical patterns of phylogenetically distant plant groups in seasonally dry Andean forests of Bolivia. Journal of Biogeography, 2009, 36, 280-290.	1.4	25
69	Effects of environmental heterogeneity on species diversity and composition of terrestrial bryophyte assemblages in tropical montane forests of southern Ecuador. Plant Ecology and Diversity, 2009, 2, 313-321.	1.0	23
70	Elevational diversity of terrestrial rainforest herbs: when the whole is less than the sum of its parts. Plant Ecology, 2012, 213, 407-418.	0.7	23
71	EpIGâ€ÐB: A database of vascular epiphyte assemblages in the Neotropics. Journal of Vegetation Science, 2020, 31, 518-528.	1.1	22
72	Elevational diversity patterns as an example for evolutionary and ecological dynamics in ferns and lycophytes. Journal of Systematics and Evolution, 2016, 54, 617-625.	1.6	21

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73	Functional Diversity in Ferns Is Driven by Species Richness Rather Than by Environmental Constraints. Frontiers in Plant Science, 2020, 11, 615723.	1.7	21
74	Conservation Value of Cacao Agroforestry Systems for Terrestrial Herbaceous Species in Central Sulawesi, Indonesia. Biotropica, 2011, 43, 755-762.	0.8	19
75	The worldâ€™s highest vascular epiphytes found in the Peruvian Andes. Alpine Botany, 2014, 124, 179-185.	1.1	19
76	Latitudinal patterns of species richness and range size of ferns along elevational gradients at the transition from tropics to subtropics. Journal of Biogeography, 2020, 47, 1383-1397.	1.4	19
77	Patterns and drivers of phylogenetic structure of pteridophytes in China. Global Ecology and Biogeography, 2021, 30, 1835-1846.	2.7	19
78	Putting vascular epiphytes on the traits map. Journal of Ecology, 2022, 110, 340-358.	1.9	19
79	Impact of mycorrhization on the abundance, growth and leaf nutrient status of ferns along a tropical elevational gradient. Oecologia, 2014, 175, 887-900.	0.9	18
80	Elevational Shifts in the Topographic Position of Polylepis Forest Stands in the Andes of Southern Peru. Forests, 2018, 9, 7.	0.9	18
81	Ecoregional distribution of potentially useful species of Araceae and Bromeliaceae as non-timber forest products in Bolivia. Biodiversity and Conservation, 2010, 19, 2553-2564.	1.2	17
82	Interspecific variation in functional traits in relation to species climatic niche optima in Andean Polylepis (Rosaceae) tree species: evidence for climatic adaptations. Functional Plant Biology, 2014, 41, 301.	1.1	17
83	Abundance and diversity of flower visitors on wild and cultivated cacao (Theobroma cacao L.) in Bolivia. Agroforestry Systems, 2018, 92, 117-125.	0.9	17
84	A review of ecological gradient research in the Tropics: identifying research gaps, future directions, and conservation priorities. Biodiversity and Conservation, 2018, 27, 273-285.	1.2	16
85	Diatom Species Richness in Swiss Springs Increases with Habitat Complexity and Elevation. Water (Switzerland), 2020, 12, 449.	1.2	16
86	The impact of sterile populations on the perception of elevational richness patterns in ferns. Ecography, 2011, 34, 123-131.	2.1	14
87	Determinants of fern and angiosperm herb community structure in lower montane rainforest in <scp>I</scp>ndonesia. Journal of Vegetation Science, 2014, 25, 1216-1224.	1.1	14
88	Influence of elevation and habitat disturbance on the functional diversity of ferns and lycophytes. Plant Ecology and Diversity, 2018, 11, 335-347.	1.0	14
89	Slowly but surely: gradual diversification and phenotypic evolution in the hyper-diverse tree fern family Cyatheaceae. Annals of Botany, 2020, 125, 93-103.	1.4	14
90	Shifts in food plant abundance for floweraâ€visiting insects between 1900 and 2017 in the canton of Zurich, Switzerland. Ecological Applications, 2020, 30, e02138.	1.8	14

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91	Pollen analogues are transported across greater distances in beeâ€pollinated than in hummingbirdâ€pollinated species of Justicia (Acanthaceae). Biotropica, 2019, 51, 99-103.	0.8	13
92	Phylogenetic diversity of ferns reveals different patterns of niche conservatism and habitat filtering between epiphytic and terrestrial assemblages. Frontiers of Biogeography, 2021, 13, .	0.8	13
93	The Worldâ€™s Highest Forest. American Scientist, 2004, 92, 454.	0.1	13
94	Richness Patterns of Ferns Along an Elevational Gradient in the Sierra de JuÃ¡rez, Oaxaca, Mexico: a Comparison with Central and South America. American Fern Journal, 2018, 108, 76-94.	0.2	12
95	Taxonomic Reevaluation of the Polylepis sericea Complex (Rosaceae), with the Description of a New Species. Systematic Botany, 2019, 44, 324-334.	0.2	12
96	Seasonal changes in odour preferences by male euglossine bees (Hymenoptera: Apidae) and their ecological implications. Apidologie, 2012, 43, 212-217.	0.9	11
97	Responses of terrestrial herb assemblages to weeding and fertilization in cacao agroforests in Indonesia. Agroforestry Systems, 2012, 85, 75-83.	0.9	11
98	Prodromus of a fern flora for Bolivia. XL. Polypodiaceae. Phytotaxa, 2018, 354, 1.	0.1	11
99	Challenges and opportunities for the Bolivian Biodiversity Observation Network. Biodiversity, 2015, 16, 86-98.	0.5	10
100	End of an enigma: Aenigmopteris belongs in Tectaria (Tectariaceae: Polypodiopsida). Journal of Plant Research, 2018, 131, 67-76.	1.2	10
101	Assessing species saturation: conceptual and methodological challenges. Biological Reviews, 2018, 93, 1874-1890.	4.7	10
102	Elevational patterns of species richness and density of rattan palms (Arecaceae: Calamoideae) in Central Sulawesi, Indonesia. Biodiversity and Conservation, 2011, 20, 1987-2005.	1.2	9
103	Pleistocene climatic oscillations rather than recent human disturbance influence genetic diversity in one of the world's highest treeline species. American Journal of Botany, 2015, 102, 1676-1684.	0.8	9
104	Using dendrochronology to trace the impact of the hemiparasite Tristerix chodatianus on Andean Polylepis trees. Plant Ecology, 2019, 220, 873-886.	0.7	9
105	The Central Andes of Peru: a key area for the conservation of Polylepis forest biodiversity. Journal of Ornithology, 2020, 161, 217-228.	0.5	8
106	Nowhere to escape â€“ Diversity and community composition of ferns and lycophytes on the highest mountain in Honduras. Journal of Tropical Ecology, 2021, 37, 72-81.	0.5	8
107	Pteridophyte species richness in the central Himalaya is limited by cold climate extremes at high elevations and rainfall seasonality at low elevations. Ecology and Evolution, 2022, 12, .	0.8	7
108	Adiciones a la pteridoflora de Tabasco, MÃ©xico: la importancia del bosque mesÃ³filo de montaÃ±a. Acta Botanica Mexicana, 2018, , 7-18.	0.1	5

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109	Regional species richness determines local species turnover in ferns. Frontiers of Biogeography, 2020, 12, .	0.8	4
110	Guard cell sizes and ploidy levels in Polylepis (Rosaceae). Neotropical Biodiversity, 2020, 6, 178-192.	0.2	3
111	Different Predictors Shape the Diversity Patterns of Epiphytic and Non-epiphytic Liverworts in Montane Forests of Uganda. Frontiers in Plant Science, 2020, 11, 765.	1.7	3
112	The Taxonomic Distribution of Chlorophyllous Spores in Ferns: An Update. American Fern Journal, 2021, 111, .	0.2	3
113	Transcriptomeâ€wide SNPs for Botrychium lunaria ferns enable fineâ€grained analysis of ploidy and population structure. Molecular Ecology Resources, 2022, 22, 254-271.	2.2	3
114	Spore dispersal of Selaginella denticulata, S. helvetica, and S. selaginoides, and the significance of heterospory in Selaginellacae. American Fern Journal, 2020, 110, 58.	0.2	3
115	Insights into the systematics of Old World taenitidoid ferns (Pteridoideae; Pteridaceae): evidence from phylogeny and micromorphology. Botanical Journal of the Linnean Society, 2022, 200, 165-193.	0.8	3
116	Influence of spatial and environmental variables on rattan palm (Arecaceae) assemblage composition in Central Sulawesi, Indonesia. Plant Ecology, 2015, 216, 55-66.	0.7	2
117	The world's smallest Campanulaceae: Lysipomia mitsyae sp. nov.. Taxon, 2016, 65, 305-314.	0.4	2
118	A new scaly tree fern (Cyathea: Cyatheaceae) from Colombia. Brittonia, 2018, 70, 166-172.	0.8	2
119	Taxonomic revaluation of the Polylepis pauta and P. sericea (Rosaceae) from Ecuador . Phytotaxa, 2020, 454, 111-126.	0.1	2
120	Influence of Increasing Nutrient Availability on Fern and Lycophyte Diversity. American Fern Journal, 2022, 112, .	0.2	1