

Brian Enquist

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

260
papers

32,311
citations

79
h-index

178
g-index

299
ext. papers

38,490
ext. citations

10.5
avg, IF

7.25
L-index

#	Paper	IF	Citations
260	A general model for the origin of allometric scaling laws in biology. <i>Science</i> , 1997 , 276, 122-6	33.3	3342
259	Rebuilding community ecology from functional traits. <i>Trends in Ecology and Evolution</i> , 2006 , 21, 178-85	10.9	2730
258	TRY is a global database of plant traits. <i>Global Change Biology</i> , 2011 , 17, 2905-2935	11.4	1623
257	The fourth dimension of life: fractal geometry and allometric scaling of organisms. <i>Science</i> , 1999 , 284, 1677-9	33.3	1180
256	A general model for the structure and allometry of plant vascular systems. <i>Nature</i> , 1999 , 400, 664-667	50.4	978
255	The return of the variance: intraspecific variability in community ecology. <i>Trends in Ecology and Evolution</i> , 2012 , 27, 244-52	10.9	926
254	Species abundance distributions: moving beyond single prediction theories to integration within an ecological framework. <i>Ecology Letters</i> , 2007 , 10, 995-1015	10	880
253	A general model for ontogenetic growth. <i>Nature</i> , 2001 , 413, 628-31	50.4	775
252	Allometric scaling of plant energetics and population density. <i>Nature</i> , 1998 , 395, 163-165	50.4	694
251	Colloquium paper: microbes on mountainsides: contrasting elevational patterns of bacterial and plant diversity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105 Suppl 1, 11505-11	11.5	584
250	Biological stoichiometry of plant production: metabolism, scaling and ecological response to global change. <i>New Phytologist</i> , 2010 , 186, 593-608	9.8	532
249	Relationships between body size and abundance in ecology. <i>Trends in Ecology and Evolution</i> , 2007 , 22, 323-30	10.9	527
248	Global allocation rules for patterns of biomass partitioning in seed plants. <i>Science</i> , 2002 , 295, 1517-20	33.3	496
247	Allometric scaling of production and life-history variation in vascular plants. <i>Nature</i> , 1999 , 401, 907-911	50.4	492
246	Invariant scaling relations across tree-dominated communities. <i>Nature</i> , 2001 , 410, 655-60	50.4	490
245	The predominance of quarter-power scaling in biology. <i>Functional Ecology</i> , 2004 , 18, 257-282	5.6	480
244	The emergence and promise of functional biogeography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13690-6	11.5	391

243	Ecological and evolutionary determinants of a key plant functional trait: wood density and its community-wide variation across latitude and elevation. <i>American Journal of Botany</i> , 2007 , 94, 451-9	2.7	342
242	The n-dimensional hypervolume. <i>Global Ecology and Biogeography</i> , 2014 , 23, 595-609	6.1	339
241	Phylogenetic and growth form variation in the scaling of nitrogen and phosphorus in the seed plants. <i>American Naturalist</i> , 2006 , 168, E103-22	3.7	312
240	Scaling metabolism from organisms to ecosystems. <i>Nature</i> , 2003 , 423, 639-42	50.4	307
239	The iPlant Collaborative: Cyberinfrastructure for Plant Biology. <i>Frontiers in Plant Science</i> , 2011 , 2, 34	6.2	306
238	Invariant scaling relationships for interspecific plant biomass production rates and body size. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 2922-7	11.5	298
237	The taxonomic name resolution service: an online tool for automated standardization of plant names. <i>BMC Bioinformatics</i> , 2013 , 14, 16	3.6	277
236	Universal scaling in tree and vascular plant allometry: toward a general quantitative theory linking plant form and function from cells to ecosystems. <i>Tree Physiology</i> , 2002 , 22, 1045-64	4.2	274
235	Temperature mediates continental-scale diversity of microbes in forest soils. <i>Nature Communications</i> , 2016 , 7, 12083	17.4	271
234	On estimating the exponent of power-law frequency distributions. <i>Ecology</i> , 2008 , 89, 905-12	4.6	267
233	Plant functional trait change across a warming tundra biome. <i>Nature</i> , 2018 , 562, 57-62	50.4	264
232	Consistency between an allometric approach and optimal partitioning theory in global patterns of plant biomass allocation. <i>Functional Ecology</i> , 2007 , 21, 713-720	5.6	263
231	The problem and promise of scale dependency in community phylogenetics. <i>Ecology</i> , 2006 , 87, 2418-24	4.6	254
230	Opposing assembly mechanisms in a neotropical dry forest: implications for phylogenetic and functional community ecology. <i>Ecology</i> , 2009 , 90, 2161-70	4.6	248
229	Diversity enhances carbon storage in tropical forests. <i>Global Ecology and Biogeography</i> , 2015 , 24, 1314-1828		245
228	Plant allometry, stoichiometry and the temperature-dependence of primary productivity. <i>Global Ecology and Biogeography</i> , 2005 , 14, 585-598	6.1	226
227	Functional trait space and the latitudinal diversity gradient. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13745-50	11.5	220
226	A general quantitative theory of forest structure and dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 7040-5	11.5	218

225	The influence of spatial and size scale on phylogenetic relatedness in tropical forest communities. <i>Ecology</i> , 2007 , 88, 1770-80	4.6	217
224	Temperature response of soil respiration largely unaltered with experimental warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 13797-13802	11.5	206
223	Climatic controls of decomposition drive the global biogeography of forest-tree symbioses. <i>Nature</i> , 2019 , 569, 404-408	50.4	203
222	Multiplicative by nature: Why logarithmic transformation is necessary in allometry. <i>Journal of Theoretical Biology</i> , 2009 , 257, 519-521	2.3	198
221	Convergence of terrestrial plant production across global climate gradients. <i>Nature</i> , 2014 , 512, 39-43	50.4	195
220	Thermodynamic and metabolic effects on the scaling of production and population energy use. <i>Ecology Letters</i> , 2003 , 6, 990-995	10	193
219	Extensions and evaluations of a general quantitative theory of forest structure and dynamics. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 7046-51	11.5	192
218	A general integrative model for scaling plant growth, carbon flux, and functional trait spectra. <i>Nature</i> , 2007 , 449, 218-22	50.4	184
217	Scaling from Traits to Ecosystems. <i>Advances in Ecological Research</i> , 2015 , 249-318	4.6	183
216	The biogeography and filtering of woody plant functional diversity in North and South America. <i>Global Ecology and Biogeography</i> , 2012 , 21, 798-808	6.1	179
215	Venation networks and the origin of the leaf economics spectrum. <i>Ecology Letters</i> , 2011 , 14, 91-100	10	156
214	Variation in above-ground forest biomass across broad climatic gradients. <i>Global Ecology and Biogeography</i> , 2011 , 20, 744-754	6.1	156
213	On the vegetative biomass partitioning of seed plant leaves, stems, and roots. <i>American Naturalist</i> , 2002 , 159, 482-97	3.7	153
212	Similarity of mammalian body size across the taxonomic hierarchy and across space and time. <i>American Naturalist</i> , 2004 , 163, 672-91	3.7	148
211	Hydraulic trade-offs and space filling enable better predictions of vascular structure and function in plants. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 22722-7	11.5	145
210	The bien r package: A tool to access the Botanical Information and Ecology Network (BIEN) database. <i>Methods in Ecology and Evolution</i> , 2018 , 9, 373-379	7.7	131
209	On Theory in Ecology. <i>BioScience</i> , 2014 , 64, 701-710	5.7	131
208	A general model for allometric covariation in botanical form and function. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 13204-9	11.5	128

207	Putting plant resistance traits on the map: a test of the idea that plants are better defended at lower latitudes. <i>New Phytologist</i> , 2011 , 191, 777-788	9.8	126
206	Biodiversity and climate determine the functioning of Neotropical forests. <i>Global Ecology and Biogeography</i> , 2017 , 26, 1423-1434	6.1	110
205	Trait variation and integration across scales: is the leaf economic spectrum present at local scales?. <i>Ecography</i> , 2017 , 40, 685-697	6.5	110
204	Canonical rules for plant organ biomass partitioning and annual allocation. <i>American Journal of Botany</i> , 2002 , 89, 812-9	2.7	110
203	Observed forest sensitivity to climate implies large changes in 21st century North American forest growth. <i>Ecology Letters</i> , 2016 , 19, 1119-28	10	109
202	Dinosaur physiology. Evidence for mesothermy in dinosaurs. <i>Science</i> , 2014 , 344, 1268-72	33.3	104
201	Intra-specific and inter-specific variation in specific leaf area reveal the importance of abiotic and biotic drivers of species diversity across elevation and latitude. <i>Journal of Vegetation Science</i> , 2013 , 24, 921-931	3.1	103
200	Biological scaling: does the exception prove the rule?. <i>Nature</i> , 2007 , 445, E9-10; discussion E10-1	50.4	103
199	New approaches for delineating n-dimensional hypervolumes. <i>Methods in Ecology and Evolution</i> , 2018 , 9, 305-319	7.7	102
198	Leaf aging of Amazonian canopy trees as revealed by spectral and physiochemical measurements. <i>New Phytologist</i> , 2017 , 214, 1049-1063	9.8	101
197	The energetic and carbon economic origins of leaf thermoregulation. <i>Nature Plants</i> , 2016 , 2, 16129	11.5	97
196	Long-term change within a Neotropical forest: assessing differential functional and floristic responses to disturbance and drought. <i>Global Change Biology</i> , 2011 , 17, 1408-1424	11.4	97
195	Allometric scaling of maximum population density: a common rule for marine phytoplankton and terrestrial plants. <i>Ecology Letters</i> , 2002 , 5, 611-613	10	97
194	sPlot: A new tool for global vegetation analyses. <i>Journal of Vegetation Science</i> , 2019 , 30, 161-186	3.1	96
193	Correlations between physical and chemical defences in plants: tradeoffs, syndromes, or just many different ways to skin a herbivorous cat?. <i>New Phytologist</i> , 2013 , 198, 252-263	9.8	94
192	The commonness of rarity: Global and future distribution of rarity across land plants. <i>Science Advances</i> , 2019 , 5, eaaz0414	14.3	94
191	Plant Thermoregulation: Energetics, Trait-Environment Interactions, and Carbon Economics. <i>Trends in Ecology and Evolution</i> , 2015 , 30, 714-724	10.9	93
190	Habitat area and climate stability determine geographical variation in plant species range sizes. <i>Ecology Letters</i> , 2013 , 16, 1446-54	10	93

189	Resilience and resistance of ecosystem functional response to a precipitation pulse in a semi-arid grassland. <i>Journal of Ecology</i> , 2006 , 94, 23-30	6	92
188	A common genetic basis to the origin of the leaf economics spectrum and metabolic scaling allometry. <i>Ecology Letters</i> , 2012 , 15, 1149-57	10	91
187	Physiology: Why does metabolic rate scale with body size?. <i>Nature</i> , 2003 , 421, 713; discussion 714	50.4	90
186	General patterns of taxonomic and biomass partitioning in extant and fossil plant communities. <i>Nature</i> , 2002 , 419, 610-3	50.4	89
185	The relationship between stem and branch wood specific gravity and the ability of each measure to predict leaf area. <i>American Journal of Botany</i> , 2008 , 95, 516-9	2.7	87
184	Long-term tree ring chronologies from sympatric tropical dry-forest trees: individualistic responses to climatic variation. <i>Journal of Tropical Ecology</i> , 2001 , 17, 41-60	1.3	85
183	Ecosystem allometry: the scaling of nutrient stocks and primary productivity across plant communities. <i>Ecology Letters</i> , 2006 , 9, 419-27	10	82
182	When tree rings go global: Challenges and opportunities for retro- and prospective insight. <i>Quaternary Science Reviews</i> , 2018 , 197, 1-20	3.9	81
181	Towards Process-based Range Modeling of Many Species. <i>Trends in Ecology and Evolution</i> , 2016 , 31, 860-871	87.1	78
180	Shifts in trait means and variances in North American tree assemblages: species richness patterns are loosely related to the functional space. <i>Ecography</i> , 2015 , 38, 649-658	6.5	75
179	Towards a thesaurus of plant characteristics: an ecological contribution. <i>Journal of Ecology</i> , 2017 , 105, 298-309	6	75
178	Yes, West, Brown and Enquist's model of allometric scaling is both mathematically correct and biologically relevant. <i>Functional Ecology</i> , 2005 , 19, 735-738	5.6	74
177	Interspecific integration of trait dimensions at local scales: the plant phenotype as an integrated network. <i>Journal of Ecology</i> , 2017 , 105, 1775-1790	6	73
176	Scaling mass and morphology in leaves: an extension of the WBE model. <i>Ecology</i> , 2007 , 88, 1132-41	4.6	73
175	The origin of universal scaling laws in biology. <i>Physica A: Statistical Mechanics and Its Applications</i> , 1999 , 263, 104-113	3.3	70
174	An empirical assessment of tree branching networks and implications for plant allometric scaling models. <i>Ecology Letters</i> , 2013 , 16, 1069-78	10	69
173	Plant leaf wax biomarkers capture gradients in hydrogen isotopes of precipitation from the Andes and Amazon. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 182, 155-172	5.5	68
172	Limited sampling hampers "big data" estimation of species richness in a tropical biodiversity hotspot. <i>Ecology and Evolution</i> , 2015 , 5, 807-20	2.8	67

171	A network approach for inferring species associations from co-occurrence data. <i>Ecography</i> , 2016 , 39, 1139-1150	6.5	66
170	Taking species abundance distributions beyond individuals. <i>Ecology Letters</i> , 2009 , 12, 488-501	10	65
169	Megafauna extinction, tree species range reduction, and carbon storage in Amazonian forests. <i>Ecography</i> , 2016 , 39, 194-203	6.5	64
168	Solar radiation and functional traits explain the decline of forest primary productivity along a tropical elevation gradient. <i>Ecology Letters</i> , 2017 , 20, 730-740	10	62
167	Adaptive differences in plant physiology and ecosystem paradoxes: insights from metabolic scaling theory. <i>Global Change Biology</i> , 2007 , 13, 591-609	11.4	62
166	Intraspecific Trait Variation and Phenotypic Plasticity Mediate Alpine Plant Species Response to Climate Change. <i>Frontiers in Plant Science</i> , 2018 , 9, 1548	6.2	60
165	Revisiting Darwin's hypothesis: Does greater intraspecific variability increase species' ecological breadth?. <i>American Journal of Botany</i> , 2014 , 101, 56-62	2.7	59
164	Climate shapes and shifts functional biodiversity in forests worldwide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 587-592	11.5	58
163	Spatial patterns and climate relationships of major plant traits in the New World differ between woody and herbaceous species. <i>Journal of Biogeography</i> , 2018 , 45, 895-916	4.1	57
162	Biogeographic patterns of soil diazotrophic communities across six forests in North America. <i>Molecular Ecology</i> , 2016 , 25, 2937-48	5.7	57
161	X-ray imaging of leaf venation networks. <i>New Phytologist</i> , 2012 , 196, 1274-1282	9.8	57
160	Assessing the causes and scales of the leaf economics spectrum using venation networks in <i>Populus tremuloides</i> . <i>Journal of Ecology</i> , 2013 , 101, 981-989	6	56
159	Connections between ecology, biogeography, and paleobiology: Relationship between local abundance and geographic distribution in fossil and recent molluscs. <i>Evolutionary Ecology</i> , 1995 , 9, 586-604	18	56
158	Open Science principles for accelerating trait-based science across the Tree of Life. <i>Nature Ecology and Evolution</i> , 2020 , 4, 294-303	12.3	54
157	Ecological traits influence the phylogenetic structure of bird species co-occurrences worldwide. <i>Ecology Letters</i> , 2014 , 17, 811-20	10	54
156	Less favourable climates constrain demographic strategies in plants. <i>Ecology Letters</i> , 2017 , 20, 969-980	10	53
155	Re-growing a tropical dry forest: functional plant trait composition and community assembly during succession. <i>Functional Ecology</i> , 2016 , 30, 1006-1013	5.6	52
154	Global species-energy relationship in forest plots: role of abundance, temperature and species climatic tolerances. <i>Global Ecology and Biogeography</i> , 2011 , 20, 842-856	6.1	51

153	Linking environmental filtering and disequilibrium to biogeography with a community climate framework. <i>Ecology</i> , 2015 , 96, 972-85	4.6	50
152	Patterns and drivers of plant functional group dominance across the Western Hemisphere: a macroecological re-assessment based on a massive botanical dataset. <i>Botanical Journal of the Linnean Society</i> , 2016 , 180, 141-160	2.2	50
151	Production of leaf wax n-alkanes across a tropical forest elevation transect. <i>Organic Geochemistry</i> , 2016 , 100, 89-100	3.1	49
150	Advancing the metabolic theory of biodiversity. <i>Ecology Letters</i> , 2009 , 12, 1001-15	10	49
149	The Implications of Scaling Approaches for Understanding Resilience and Reorganization in Ecosystems. <i>BioScience</i> , 2007 , 57, 489-499	5.7	49
148	Predictability in community dynamics. <i>Ecology Letters</i> , 2017 , 20, 293-306	10	47
147	Growth models based on first principles or phenomenology?. <i>Functional Ecology</i> , 2004 , 18, 188-196	5.6	47
146	Does environmental heterogeneity drive functional trait variation? A test in montane and alpine meadows. <i>Oikos</i> , 2017 , 126, 1650-1659	4	46
145	30% land conservation and climate action reduces tropical extinction risk by more than 50%. <i>Ecography</i> , 2020 , 43, 943-953	6.5	46
144	Assessing the general patterns of forest structure: quantifying tree and forest allometric scaling relationships in the United States. <i>Global Ecology and Biogeography</i> , 2015 , 24, 1465-1475	6.1	46
143	Deviation from symmetrically self-similar branching in trees predicts altered hydraulics, mechanics, light interception and metabolic scaling. <i>New Phytologist</i> , 2014 , 201, 217-229	9.8	44
142	The allometry of host-pathogen interactions. <i>PLoS ONE</i> , 2007 , 2, e1130	3.7	44
141	Modelling universality and scaling. <i>Nature</i> , 2002 , 420, 626-627	50.4	44
140	Linking canopy leaf area and light environments with tree size distributions to explain Amazon forest demography. <i>Ecology Letters</i> , 2015 , 18, 636-45	10	43
139	Latitudinal patterns of range size and species richness of New World woody plants. <i>Global Ecology and Biogeography</i> , 2007 , 16, 679-688	6.1	42
138	Drivers of terrestrial plant production across broad geographical gradients. <i>Global Ecology and Biogeography</i> , 2018 , 27, 166-174	6.1	42
137	Cope's Rule and the evolution of long-distance transport in vascular plants: allometric scaling, biomass partitioning and optimization. <i>Plant, Cell and Environment</i> , 2003 , 26, 151-161	8.4	41
136	Adaptive diversification of growth allometry in the plant. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 3416-3421	11.5	40

135	A species-level model for metabolic scaling in trees I. Exploring boundaries to scaling space within and across species. <i>Functional Ecology</i> , 2012 , 26, 1054-1065	5.6	40
134	Scale dependence of canopy trait distributions along a tropical forest elevation gradient. <i>New Phytologist</i> , 2017 , 214, 973-988	9.8	40
133	The leaf-area shrinkage effect can bias paleoclimate and ecology research. <i>American Journal of Botany</i> , 2012 , 99, 1756-63	2.7	40
132	Drier tropical forests are susceptible to functional changes in response to a long-term drought. <i>Ecology Letters</i> , 2019 , 22, 855-865	10	39
131	Big data of tree species distributions: how big and how good?. <i>Forest Ecosystems</i> , 2017 , 4,	3.8	39
130	Above-ground forest biomass is not consistently related to wood density in tropical forests. <i>Global Ecology and Biogeography</i> , 2009 , 18, 617-625	6.1	39
129	Evolving ecological networks and the emergence of biodiversity patterns across temperature gradients. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012 , 279, 1051-60	4.4	37
128	Testing models for the leaf economics spectrum with leaf and whole-plant traits in <i>Arabidopsis thaliana</i> . <i>AoB PLANTS</i> , 2015 , 7,	2.9	35
127	Variation in leaf wettability traits along a tropical montane elevation gradient. <i>New Phytologist</i> , 2017 , 214, 989-1001	9.8	35
126	Using Constraint Lines to Characterize Plant Performance. <i>Oikos</i> , 1998 , 83, 237	4	35
125	The megabiota are disproportionately important for biosphere functioning. <i>Nature Communications</i> , 2020 , 11, 699	17.4	35
124	Biogeochemistry drives diversity in the prokaryotes, fungi, and invertebrates of a Panama forest. <i>Ecology</i> , 2017 , 98, 2019-2028	4.6	34
123	Improved abundance prediction from presence-absence data. <i>Global Ecology and Biogeography</i> , 2009 , 18, 1-10	6.1	33
122	Metabolic Scaling and the Evolutionary Dynamics of Plant Size, Form, and Diversity: Toward a Synthesis of Ecology, Evolution, and Paleontology. <i>International Journal of Plant Sciences</i> , 2007 , 168, 729-749	2.6	33
121	Convergence Analysis of Fully Discrete Finite Volume Methods for Maxwell's Equations in Nonhomogeneous Media. <i>SIAM Journal on Numerical Analysis</i> , 2005 , 43, 303-317	2.4	33
120	Carbon isotope composition of tree leaves from Guanacaste, Costa Rica: comparison across tropical forests and tree life history. <i>Journal of Tropical Ecology</i> , 2002 , 18, 151-159	1.3	33
119	Plant ecological strategies shift across the Cretaceous-Paleogene boundary. <i>PLoS Biology</i> , 2014 , 12, e1001949	10.17	31
118	Variation and macroevolution in leaf functional traits in the Hawaiian silversword alliance (Asteraceae). <i>Journal of Ecology</i> , 2016 , 104, 219-228	6	31

117	Assessing trait-based scaling theory in tropical forests spanning a broad temperature gradient. <i>Global Ecology and Biogeography</i> , 2017 , 26, 1357-1373	6.1	29
116	A roadmap for global synthesis of the plant tree of life. <i>American Journal of Botany</i> , 2018 , 105, 614-622	2.7	29
115	Late Quaternary climate legacies in contemporary plant functional composition. <i>Global Change Biology</i> , 2018 , 24, 4827-4840	11.4	29
114	Inferring climate from angiosperm leaf venation networks. <i>New Phytologist</i> , 2014 , 204, 116-126	9.8	29
113	Allometric growth, life-history invariants and population energetics. <i>Ecology Letters</i> , 2005 , 8, 353-360	10	29
112	Informing trait-based ecology by assessing remotely sensed functional diversity across a broad tropical temperature gradient. <i>Science Advances</i> , 2019 , 5, eaaw8114	14.3	29
111	Modeling macroscopic patterns in ecology. <i>Science</i> , 2002 , 295, 1835-7	33.3	27
110	Cyberinfrastructure for an integrated botanical information network to investigate the ecological impacts of global climate change on plant biodiversity		27
109	Temperature shapes opposing latitudinal gradients of plant taxonomic and phylogenetic β diversity. <i>Ecology Letters</i> , 2019 , 22, 1126-1135	10	26
108	The Effect of the Foresummer Drought on Carbon Exchange in Subalpine Meadows. <i>Ecosystems</i> , 2015 , 18, 533-545	3.9	26
107	Toward a theory for diversity gradients: the abundance-adaptation hypothesis. <i>Ecography</i> , 2018 , 41, 2556-2564	2.54	26
106	Draining the Pool? Carbon Storage and Fluxes in Three Alpine Plant Communities. <i>Ecosystems</i> , 2018 , 21, 316-330	3.9	26
105	A plant growth form dataset for the New World. <i>Ecology</i> , 2016 , 97, 3243	4.6	26
104	A species-level model for metabolic scaling of trees II. Testing in a ring- and diffuse-porous species. <i>Functional Ecology</i> , 2012 , 26, 1066-1076	5.6	26
103	Landscape context explains changes in the functional diversity of regenerating forests better than climate or species richness. <i>Global Ecology and Biogeography</i> , 2017 , 26, 1165-1176	6.1	26
102	The role of functional uniqueness and spatial aggregation in explaining rarity in trees. <i>Global Ecology and Biogeography</i> , 2017 , 26, 777-786	6.1	24
101	Metabolic scaling in insects supports the predictions of the WBE model. <i>Journal of Insect Physiology</i> , 2011 , 57, 688-93	2.4	24
100	Areas of global importance for conserving terrestrial biodiversity, carbon and water. <i>Nature Ecology and Evolution</i> , 2021 , 5, 1499-1509	12.3	24

99	Scaling of mass and morphology in plants with minimal branching: an extension of the WBE model. <i>Functional Ecology</i> , 2006 , 20, 11-20	5.6	23
98	Plant Functional Diversity and the Biogeography of Biomes in North and South America. <i>Frontiers in Ecology and Evolution</i> , 2018 , 6,	3.7	22
97	Predicting trait-environment relationships for venation networks along an Andes-Amazon elevation gradient. <i>Ecology</i> , 2017 , 98, 1239-1255	4.6	20
96	A NEW CLASS OF MODELS OF SPATIAL DISTRIBUTION. <i>Ecological Monographs</i> , 2007 , 77, 269-284	9	20
95	Organ Partitioning and Distribution across the Seed Plants: Assessing the Relative Importance of Phylogeny and Function. <i>International Journal of Plant Sciences</i> , 2007 , 168, 751-761	2.6	20
94	Effects of Added Water on Photosynthesis of <i>Bistorta vivipara</i> : The Importance of Water Relations and Leaf Nitrogen in Two Alpine Communities, Pikes Peak, Colorado, U.S.A.. <i>Arctic and Alpine Research</i> , 1994 , 26, 29		20
93	A general model for metabolic scaling in self-similar asymmetric networks. <i>PLoS Computational Biology</i> , 2017 , 13, e1005394	5	19
92	Darwin's naturalization conundrum can be explained by spatial scale. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 10904-10910	11.5	18
91	Examining variation in the leaf mass per area of dominant species across two contrasting tropical gradients in light of community assembly. <i>Ecology and Evolution</i> , 2016 , 6, 5674-89	2.8	18
90	Implicit processing and therapeutic suggestion during balanced anaesthesia. <i>Acta Anaesthesiologica Scandinavica</i> , 1995 , 39, 333-7	1.9	18
89	Isoprene emission structures tropical tree biogeography and community assembly responses to climate. <i>New Phytologist</i> , 2018 , 220, 435-446	9.8	17
88	Continental scale structuring of forest and soil diversity via functional traits. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1298-1308	12.3	17
87	Inclusion of vein traits improves predictive power for the leaf economic spectrum: a response to Sack et al. (2013). <i>Journal of Experimental Botany</i> , 2014 , 65, 5109-14	7	17
86	Accounting for spatial autocorrelation in null models of tree species association. <i>Ecography</i> , 2012 , 35, 510-518	6.5	17
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