

# Jens Kattge

## 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.

182  
papers

18,237  
citations

64  
h-index

134  
g-index

200  
ext. papers

23,234  
ext. citations

8.5  
avg, IF

6.28  
L-index

#	Paper	IF	Citations
182	Global effects of land use on local terrestrial biodiversity. <i>Nature</i> , <b>2015</b> , 520, 45-50	50.4	1695
181	TRY $\beta$ global database of plant traits. <i>Global Change Biology</i> , <b>2011</b> , 17, 2905-2935	11.4	1623
180	The global spectrum of plant form and function. <i>Nature</i> , <b>2016</b> , 529, 167-71	50.4	1191
179	Comprehensive comparison of gap-filling techniques for eddy covariance net carbon fluxes. <i>Agricultural and Forest Meteorology</i> , <b>2007</b> , 147, 209-232	5.8	645
178	Will the tropical land biosphere dominate the climate-carbon cycle feedback during the twenty-first century?. <i>Climate Dynamics</i> , <b>2007</b> , 29, 565-574	4.2	479
177	Plant functional traits have globally consistent effects on competition. <i>Nature</i> , <b>2016</b> , 529, 204-7	50.4	453
176	Quantifying photosynthetic capacity and its relationship to leaf nitrogen content for global-scale terrestrial biosphere models. <i>Global Change Biology</i> , <b>2009</b> , 15, 976-991	11.4	449
175	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , <b>2020</b> , 26, 119-188	11.4	399
174	The emergence and promise of functional biogeography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 13690-6	11.5	391
173	Abiotic drivers and plant traits explain landscape-scale patterns in soil microbial communities. <i>Ecology Letters</i> , <b>2012</b> , 15, 1230-1239	10	371
172	Temperature acclimation in a biochemical model of photosynthesis: a reanalysis of data from 36 species. <i>Plant, Cell and Environment</i> , <b>2007</b> , 30, 1176-90	8.4	365
171	Climate and litter quality differently modulate the effects of soil fauna on litter decomposition across biomes. <i>Ecology Letters</i> , <b>2013</b> , 16, 1045-53	10	314
170	Plant functional trait change across a warming tundra biome. <i>Nature</i> , <b>2018</b> , 562, 57-62	50.4	264
169	Improving land surface models with FLUXNET data. <i>Biogeosciences</i> , <b>2009</b> , 6, 1341-1359	4.6	260
168	A roadmap for improving the representation of photosynthesis in Earth system models. <i>New Phytologist</i> , <b>2017</b> , 213, 22-42	9.8	245
167	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. <i>New Phytologist</i> , <b>2015</b> , 206, 614-36	9.8	244
166	Competitive interactions between forest trees are driven by species' trait hierarchy, not phylogenetic or functional similarity: implications for forest community assembly. <i>Ecology Letters</i> , <b>2012</b> , 15, 831-40	10	230

165	Improving assessment and modelling of climate change impacts on global terrestrial biodiversity. <i>Trends in Ecology and Evolution</i> , <b>2011</b> , 26, 249-59	10.9	230
164	The relationship of leaf photosynthetic traits - V <sub>cmax</sub> and J <sub>max</sub> - to leaf nitrogen, leaf phosphorus, and specific leaf area: a meta-analysis and modeling study. <i>Ecology and Evolution</i> , <b>2014</b> , 4, 3218-35	2.8	222
163	Cross-site evaluation of eddy covariance GPP and RE decomposition techniques. <i>Agricultural and Forest Meteorology</i> , <b>2008</b> , 148, 821-838	5.8	221
162	Nutrient limitation reduces land carbon uptake in simulations with a model of combined carbon, nitrogen and phosphorus cycling. <i>Biogeosciences</i> , <b>2012</b> , 9, 3547-3569	4.6	219
161	Which is a better predictor of plant traits: temperature or precipitation?. <i>Journal of Vegetation Science</i> , <b>2014</b> , 25, 1167-1180	3.1	217
160	Global trait-environment relationships of plant communities. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 1906-1917	6.1	209
159	Tree mortality across biomes is promoted by drought intensity, lower wood density and higher specific leaf area. <i>Ecology Letters</i> , <b>2017</b> , 20, 539-553	10	199
158	Inversion of terrestrial ecosystem model parameter values against eddy covariance measurements by Monte Carlo sampling. <i>Global Change Biology</i> , <b>2005</b> , 11, 1333-1351	11.4	192
157	A global method for calculating plant CSR ecological strategies applied across biomes world-wide. <i>Functional Ecology</i> , <b>2017</b> , 31, 444-457	5.6	191
156	Linking plant and ecosystem functional biogeography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 13697-702	11.5	188
155	Estimation of parameters in complex <sup>15</sup> N tracing models by Monte Carlo sampling. <i>Soil Biology and Biochemistry</i> , <b>2007</b> , 39, 715-726	7.5	187
154	Diversity increases carbon storage and tree productivity in Spanish forests. <i>Global Ecology and Biogeography</i> , <b>2014</b> , 23, 311-322	6.1	186
153	Plant functional types in Earth system models: past experiences and future directions for application of dynamic vegetation models in high-latitude ecosystems. <i>Annals of Botany</i> , <b>2014</b> , 114, 1-16	4.1	176
152	A single evolutionary innovation drives the deep evolution of symbiotic N <sub>2</sub> -fixation in angiosperms. <i>Nature Communications</i> , <b>2014</b> , 5, 4087	17.4	173
151	A global Fine-Root Ecology Database to address below-ground challenges in plant ecology. <i>New Phytologist</i> , <b>2017</b> , 215, 15-26	9.8	168
150	Monitoring plant functional diversity from space. <i>Nature Plants</i> , <b>2016</b> , 2, 16024	11.5	164
149	Multiple facets of biodiversity drive the diversity-stability relationship. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 1579-1587	12.3	140
148	The fungal collaboration gradient dominates the root economics space in plants. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	120

147	Statistical properties of random CO2 flux measurement uncertainty inferred from model residuals. <i>Agricultural and Forest Meteorology</i> , <b>2008</b> , 148, 38-50	5.8	117
146	Leaf and stem economics spectra drive diversity of functional plant traits in a dynamic global vegetation model. <i>Global Change Biology</i> , <b>2015</b> , 21, 2711-2725	11.4	111
145	A synthesis of tree functional traits related to drought-induced mortality in forests across climatic zones. <i>Journal of Applied Ecology</i> , <b>2017</b> , 54, 1669-1686	5.8	108
144	Are trait-based species rankings consistent across data sets and spatial scales?. <i>Journal of Vegetation Science</i> , <b>2014</b> , 25, 235-247	3.1	104
143	Mapping local and global variability in plant trait distributions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2017</b> , 114, E10937-E10946	11.5	103
142	Global relationship of wood and leaf litter decomposability: the role of functional traits within and across plant organs. <i>Global Ecology and Biogeography</i> , <b>2014</b> , 23, 1046-1057	6.1	100
141	Towards global data products of Essential Biodiversity Variables on species traits. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 1531-1540	12.3	100
140	Impacts of trait variation through observed trait-climate relationships on performance of an Earth system model: a conceptual analysis. <i>Biogeosciences</i> , <b>2013</b> , 10, 5497-5515	4.6	99
139	Influences of observation errors in eddy flux data on inverse model parameter estimation. <i>Biogeosciences</i> , <b>2008</b> , 5, 1311-1324	4.6	98
138	Phylogenetic and functional characteristics of household yard floras and their changes along an urbanization gradient. <i>Ecology</i> , <b>2012</b> , 93, S83-S98	4.6	97
137	sPlot: A new tool for global vegetation analyses. <i>Journal of Vegetation Science</i> , <b>2019</b> , 30, 161-186	3.1	96
136	Relationships between net primary productivity and forest stand age in U.S. forests. <i>Global Biogeochemical Cycles</i> , <b>2012</b> , 26,	5.9	95
135	Traits to stay, traits to move: a review of functional traits to assess sensitivity and adaptive capacity of temperate and boreal trees to climate change. <i>Environmental Reviews</i> , <b>2016</b> , 24, 164-186	4.5	92
134	Plant-driven variation in decomposition rates improves projections of global litter stock distribution. <i>Biogeosciences</i> , <b>2012</b> , 9, 565-576	4.6	92
133	Testing the environmental filtering concept in global drylands. <i>Journal of Ecology</i> , <b>2017</b> , 105, 1058-1069	6	88
132	The coordination of leaf photosynthesis links C and N fluxes in C3 plant species. <i>PLoS ONE</i> , <b>2012</b> , 7, e38345	3.7	87
131	Foliar temperature acclimation reduces simulated carbon sensitivity to climate. <i>Nature Climate Change</i> , <b>2016</b> , 6, 407-411	21.4	85
130	BHPMF: A hierarchical Bayesian approach to gap-filling and trait prediction for macroecology and functional biogeography. <i>Global Ecology and Biogeography</i> , <b>2015</b> , 24, 1510-1521	6.1	83

129	Global photosynthetic capacity is optimized to the environment. <i>Ecology Letters</i> , <b>2019</b> , 22, 506-517	10	80
128	Improved representation of plant functional types and physiology in the Joint UK Land Environment Simulator (JULES v4.2) using plant trait information. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 2415-2440	6.3	79
127	The BETHY/JSBACH Carbon Cycle Data Assimilation System: experiences and challenges. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2013</b> , 118, 1414-1426	3.7	75
126	Towards a thesaurus of plant characteristics: an ecological contribution. <i>Journal of Ecology</i> , <b>2017</b> , 105, 298-309	6	75
125	Inclusion of ecologically based trait variation in plant functional types reduces the projected land carbon sink in an earth system model. <i>Global Change Biology</i> , <b>2015</b> , 21, 3074-86	11.4	75
124	Connecting the Green and Brown Worlds: Allometric and Stoichiometric Predictability of Above- and Below-Ground Networks. <i>Advances in Ecological Research</i> , <b>2013</b> , 49, 69-175	4.6	74
123	OptIC project: An intercomparison of optimization techniques for parameter estimation in terrestrial biogeochemical models. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		74
122	Effect of elevated CO <sub>2</sub> on soil N dynamics in a temperate grassland soil. <i>Soil Biology and Biochemistry</i> , <b>2009</b> , 41, 1996-2001	7.5	68
121	A generic structure for plant trait databases. <i>Methods in Ecology and Evolution</i> , <b>2011</b> , 2, 202-213	7.7	67
120	Feedback of carbon and nitrogen cycles enhances carbon sequestration in the terrestrial biosphere. <i>Global Change Biology</i> , <b>2011</b> , 17, 819-842	11.4	67
119	Simple measures of climate, soil properties and plant traits predict national-scale grassland soil carbon stocks. <i>Journal of Applied Ecology</i> , <b>2015</b> , 52, 1188-1196	5.8	65
118	Modes of functional biodiversity control on tree productivity across the European continent. <i>Global Ecology and Biogeography</i> , <b>2016</b> , 25, 251-262	6.1	64
117	Predicting invertebrate herbivory from plant traits: evidence from 51 grassland species in experimental monocultures. <i>Ecology</i> , <b>2012</b> , 93, 2674-82	4.6	63
116	Plant attributes explain the distribution of soil microbial communities in two contrasting regions of the globe. <i>New Phytologist</i> , <b>2018</b> , 219, 574-587	9.8	61
115	Stand age and species richness dampen interannual variation of ecosystem-level photosynthetic capacity. <i>Nature Ecology and Evolution</i> , <b>2017</b> , 1, 48	12.3	60
114	A methodology to derive global maps of leaf traits using remote sensing and climate data. <i>Remote Sensing of Environment</i> , <b>2018</b> , 218, 69-88	13.2	58
113	Spatial patterns and climate relationships of major plant traits in the New World differ between woody and herbaceous species. <i>Journal of Biogeography</i> , <b>2018</b> , 45, 895-916	4.1	57
112	A vertically discretised canopy description for ORCHIDEE (SVN r2290) and the modifications to the energy, water and carbon fluxes. <i>Geoscientific Model Development</i> , <b>2015</b> , 8, 2035-2065	6.3	57

111	Improving the predictability of global CO <sub>2</sub> assimilation rates under climate change. <i>Geophysical Research Letters</i> , <b>2011</b> , 38, n/a-n/a	4.9	55
110	Global convergence in leaf respiration from estimates of thermal acclimation across time and space. <i>New Phytologist</i> , <b>2015</b> , 207, 1026-37	9.8	54
109	Open Science principles for accelerating trait-based science across the Tree of Life. <i>Nature Ecology and Evolution</i> , <b>2020</b> , 4, 294-303	12.3	54
108	Taxonomic and functional turnover are decoupled in European peat bogs. <i>Nature Communications</i> , <b>2017</b> , 8, 1161	17.4	53
107	Future global productivity will be affected by plant trait response to climate. <i>Scientific Reports</i> , <b>2018</b> , 8, 2870	4.9	52
106	Global leaf nitrogen and phosphorus stoichiometry and their scaling exponent. <i>National Science Review</i> , <b>2018</b> , 5, 728-739	10.8	52
105	Symbiont switching and alternative resource acquisition strategies drive mutualism breakdown. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2018</b> , 115, 5229-5234	11.5	52
104	Improving ecosystem productivity modeling through spatially explicit estimation of optimal light use efficiency. <i>Journal of Geophysical Research G: Biogeosciences</i> , <b>2014</b> , 119, 1755-1769	3.7	51
103	Contrasting effects of tree diversity on young tree growth and resistance to insect herbivores across three biodiversity experiments. <i>Oikos</i> , <b>2015</b> , 124, 1674-1685	4	50
102	Plant trait analysis delivers an extensive list of potential green roof species for Mediterranean France. <i>Ecological Engineering</i> , <b>2014</b> , 67, 48-59	3.9	47
101	Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. <i>Ecology Letters</i> , <b>2018</b> , 21, 31-42	10	47
100	Climate- and successional-related changes in functional composition of European forests are strongly driven by tree mortality. <i>Global Change Biology</i> , <b>2017</b> , 23, 4162-4176	11.4	46
99	Invasive species' leaf traits and dissimilarity from natives shape their impact on nitrogen cycling: a meta-analysis. <i>New Phytologist</i> , <b>2017</b> , 213, 128-139	9.8	46
98	Global Estimation of Biophysical Variables from Google Earth Engine Platform. <i>Remote Sensing</i> , <b>2018</b> , 10, 1167	5	45
97	Future challenges of representing land-processes in studies on land-atmosphere interactions. <i>Biogeosciences</i> , <b>2012</b> , 9, 3587-3599	4.6	45
96	Modeling the vertical soil organic matter profile using Bayesian parameter estimation. <i>Biogeosciences</i> , <b>2013</b> , 10, 399-420	4.6	44
95	Sampling date, leaf age and root size: implications for the study of plant C:N:p stoichiometry. <i>PLoS ONE</i> , <b>2013</b> , 8, e60360	3.7	42
94	Functional diversity underlies demographic responses to environmental variation in European forests. <i>Global Ecology and Biogeography</i> , <b>2017</b> , 26, 128-141	6.1	41

93	Whole-plant trait spectra of North American woody plant species reflect fundamental ecological strategies. <i>Ecosphere</i> , <b>2013</b> , 4, art128	3.1	39
92	Biodiversity data integration-the significance of data resolution and domain. <i>PLoS Biology</i> , <b>2019</b> , 17, e3009183	3.8	38
91	Acclimation of leaf respiration consistent with optimal photosynthetic capacity. <i>Global Change Biology</i> , <b>2020</b> , 26, 2573	11.4	37
90	Advances in flowering phenology across the Northern Hemisphere are explained by functional traits. <i>Global Ecology and Biogeography</i> , <b>2018</b> , 27, 310-321	6.1	37
89	A global trait-based approach to estimate leaf nitrogen functional allocation from observations. <i>Ecological Applications</i> , <b>2017</b> , 27, 1421-1434	4.9	36
88	Plant functional trait shifts explain concurrent changes in the structure and function of grassland soil microbial communities. <i>Journal of Ecology</i> , <b>2019</b> , 107, 2197-2210	6	35
87	Simultaneous assimilation of satellite and eddy covariance data for improving terrestrial water and carbon simulations at a semi-arid woodland site in Botswana. <i>Biogeosciences</i> , <b>2013</b> , 10, 789-802	4.6	34
86	Multi-scale phylogenetic structure in coastal dune plant communities across the globe. <i>Journal of Plant Ecology</i> , <b>2014</b> , 7, 101-114	1.7	33
85	Phylogenetic patterns and phenotypic profiles of the species of plants and mammals farmed for food. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 1808-1817	12.3	33
84	Large sensitivity in land carbon storage due to geographical and temporal variation in the thermal response of photosynthetic capacity. <i>New Phytologist</i> , <b>2018</b> , 218, 1462-1477	9.8	32
83	Inferring plant functional diversity from space: the potential of Sentinel-2. <i>Remote Sensing of Environment</i> , <b>2019</b> , 233, 111368	13.2	31
82	The imprint of plants on ecosystem functioning: A data-driven approach. <i>International Journal of Applied Earth Observation and Geoinformation</i> , <b>2015</b> , 43, 119-131	7.3	31
81	Predicting invertebrate herbivory from plant traits: polycultures show strong nonadditive effects. <i>Ecology</i> , <b>2013</b> , 94, 1499-509	4.6	31
80	The results of biodiversity-ecosystem functioning experiments are realistic. <i>Nature Ecology and Evolution</i> , <b>2020</b> , 4, 1485-1494	12.3	31
79	Vegetation ecology meets ecosystem science: Permanent grasslands as a functional biogeography case study. <i>Science of the Total Environment</i> , <b>2015</b> , 534, 43-51	10.2	30
78	Late Quaternary climate legacies in contemporary plant functional composition. <i>Global Change Biology</i> , <b>2018</b> , 24, 4827-4840	11.4	29
77	Phylogenetic measures of plant communities show long-term change and impacts of fire management in tallgrass prairie remnants. <i>Journal of Applied Ecology</i> , <b>2015</b> , 52, 1638-1648	5.8	29
76	Estimating the missing species bias in plant trait measurements. <i>Journal of Vegetation Science</i> , <b>2015</b> , 26, 828-838	3.1	29

75	Fame, glory and neglect in meta-analyses. <i>Trends in Ecology and Evolution</i> , <b>2011</b> , 26, 493-4	10.9	29
74	Predicting habitat affinities of plant species using commonly measured functional traits. <i>Journal of Vegetation Science</i> , <b>2017</b> , 28, 1082-1095	3.1	28
73	Global root traits (GRooT) database. <i>Global Ecology and Biogeography</i> , <b>2021</b> , 30, 25-37	6.1	28
72	A plant growth form dataset for the New World. <i>Ecology</i> , <b>2016</b> , 97, 3243	4.6	26
71	Available and missing data to model impact of climate change on European forests. <i>Ecological Modelling</i> , <b>2020</b> , 416, 108870	3	26
70	Sensitivity of community-level trait–environment relationships to data representativeness: A test for functional biogeography. <i>Global Ecology and Biogeography</i> , <b>2017</b> , 26, 729-739	6.1	25
69	Plant community structure and nitrogen inputs modulate the climate signal on leaf traits. <i>Global Ecology and Biogeography</i> , <b>2017</b> , 26, 1138-1152	6.1	25
68	Variation in trait trade-offs allows differentiation among predefined plant functional types: implications for predictive ecology. <i>New Phytologist</i> , <b>2016</b> , 209, 563-75	9.8	24
67	Dispersal limitation drives successional pathways in Central Siberian forests under current and intensified fire regimes. <i>Global Change Biology</i> , <b>2016</b> , 22, 2178-97	11.4	24
66	The flora phenotype ontology (FLOPO): tool for integrating morphological traits and phenotypes of vascular plants. <i>Journal of Biomedical Semantics</i> , <b>2016</b> , 7, 65	2.2	24
65	Potential and limitations of inferring ecosystem photosynthetic capacity from leaf functional traits. <i>Ecology and Evolution</i> , <b>2016</b> , 6, 7352-7366	2.8	24
64	Traditional plant functional groups explain variation in economic but not size-related traits across the tundra biome. <i>Global Ecology and Biogeography</i> , <b>2019</b> , 28, 78-95	6.1	24
63	Constraining a land-surface model with multiple observations by application of the MPI-Carbon Cycle Data Assimilation System V1.0. <i>Geoscientific Model Development</i> , <b>2016</b> , 9, 2999-3026	6.3	23
62	Global plant trait relationships extend to the climatic extremes of the tundra biome. <i>Nature Communications</i> , <b>2020</b> , 11, 1351	17.4	19
61	Robustness of trait connections across environmental gradients and growth forms. <i>Global Ecology and Biogeography</i> , <b>2019</b> , 28, 1806-1826	6.1	19
60	Biogeographic patterns of multi-element stoichiometry of <i>Quercus variabilis</i> leaves across China. <i>Canadian Journal of Forest Research</i> , <b>2015</b> , 45, 1827-1834	1.9	17
59	Taxonomic and functional diversity in Mediterranean pastures: insights on the biodiversity–productivity trade-off. <i>Journal of Applied Ecology</i> , <b>2016</b> , 53, 1575-1584	5.8	17
58	An integrated framework of plant form and function: the belowground perspective. <i>New Phytologist</i> , <b>2021</b> , 232, 42-59	9.8	16

57	Inter- and intraspecific variation in leaf economic traits in wheat and maize. <i>AoB PLANTS</i> , <b>2018</b> , 10, ply006.9	1.1	15
56	Ecophysiological Characteristics of Mature Trees and Stands - Consequences for Old-Growth Forest Productivity. <i>Ecological Studies</i> , <b>2009</b> , 57-79	1.1	15
55	Nutrient input from hemiparasitic litter favors plant species with a fast-growth strategy. <i>Plant and Soil</i> , <b>2013</b> , 371, 53-66	4.2	14
54	Nutrient limitation reduces land carbon uptake in simulations with a model of combined carbon, nitrogen and phosphorus cycling		14
53	Global gradients in intraspecific variation in vegetative and floral traits are partially associated with climate and species richness. <i>Global Ecology and Biogeography</i> , <b>2020</b> , 29, 992-1007	6.1	13
52	Family-level leaf nitrogen and phosphorus stoichiometry of global terrestrial plants. <i>Science China Life Sciences</i> , <b>2019</b> , 62, 1047-1057	8.5	13
51	Harmonizing, annotating and sharing data in biodiversity ecosystem functioning research. <i>Methods in Ecology and Evolution</i> , <b>2013</b> , 4, 201-205	7.7	13
50	Functional Resilience against Climate-Driven Extinctions - Comparing the Functional Diversity of European and North American Tree Floras. <i>PLoS ONE</i> , <b>2016</b> , 11, e0148607	3.7	13
49	The relationship of woody plant size and leaf nutrient content to large-scale productivity for forests across the Americas. <i>Journal of Ecology</i> , <b>2019</b> , 107, 2278-2290	6	11
48	Uncertainty Quantified Matrix Completion Using Bayesian Hierarchical Matrix Factorization <b>2014</b> ,		11
47	Improving land surface models with FLUXNET data		11
46	A reporting format for leaf-level gas exchange data and metadata. <i>Ecological Informatics</i> , <b>2021</b> , 61, 101232	4.2	11
45	Root traits explain plant species distributions along climatic gradients yet challenge the nature of ecological trade-offs. <i>Nature Ecology and Evolution</i> , <b>2021</b> , 5, 1123-1134	12.3	11
44	Beyond distance-invariant survival in inverse recruitment modeling: A case study in Siberian <i>Pinus sylvestris</i> forests. <i>Ecological Modelling</i> , <b>2012</b> , 233, 90-103	3	9
43	Estimating Basal Area of Spruce and Fir in Post-fire Residual Stands in Central Siberia Using Quickbird, Feature Selection, and Random Forests. <i>Procedia Computer Science</i> , <b>2013</b> , 18, 2386-2395	1.6	9
42	Influences of observation errors in eddy flux data on inverse model parameter estimation		8
41	The TRY Plant Trait Database - enhanced coverage and open access		8
40	Similar factors underlie tree abundance in forests in native and alien ranges. <i>Global Ecology and Biogeography</i> , <b>2020</b> , 29, 281-294	6.1	8

39	The three major axes of terrestrial ecosystem function. <i>Nature</i> , <b>2021</b> , 598, 468-472	50.4	8
38	Assessing Impacts of Plant Stoichiometric Traits on Terrestrial Ecosystem Carbon Accumulation Using the E3SM Land Model. <i>Journal of Advances in Modeling Earth Systems</i> , <b>2020</b> , 12, e2019MS001841	7.1	7
37	Dispersal limitation determines large-scale dark diversity in Central and Northern Europe. <i>Journal of Biogeography</i> , <b>2017</b> , 44, 1770-1780	4.1	6
36	Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation.. <i>Nature Ecology and Evolution</i> , <b>2021</b> ,	12.3	6
35	sPlotOpen –An environmentally balanced, open-access, global dataset of vegetation plots. <i>Global Ecology and Biogeography</i> , <b>2021</b> , 30, 1740-1764	6.1	6
34	A global database of paired leaf nitrogen and phosphorus concentrations of terrestrial plants. <i>Ecology</i> , <b>2019</b> , 100, e02812	4.6	5
33	A vertically discretised canopy description for ORCHIDEE (SVN r2290) and the modifications to the energy, water and carbon fluxes		5
32	Physically, physiologically and conceptually hidden: Improving the description and communication of seed persistence. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , <b>2019</b> , 257, 151413	1.9	4
31	Chronic fertilization and irrigation gradually and increasingly restructure grassland communities. <i>Ecosphere</i> , <b>2019</b> , 10, e02625	3.1	4
30	Impacts of trait variation through observed trait-climate relationships on performance of a representative Earth System model: a conceptual analysis <b>2012</b> ,		4
29	Modeling the vertical soil organic matter profile using Bayesian parameter estimation		4
28	News on intra-specific trait variation, species sorting, and optimality theory for functional biogeography and beyond. <i>New Phytologist</i> , <b>2020</b> , 228, 6-10	9.8	4
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25	The fungal collaboration gradient dominates the root economics space in plants		3
24	Plant-driven variation in decomposition rates improves projections of global litter stock distribution		3
23	Simultaneous assimilation of satellite and eddy covariance data for improving terrestrial water and carbon simulations at a semi-arid woodland site in Botswana		3
22	Supplementary material to ‘Improved representation of plant functional types and physiology in the Joint UK Land Environment Simulator (JULES v4.2) using plant trait information’;		3

21	A Semantic Web Faceted Search System for Facilitating Building of Biodiversity and Ecosystems Services. <i>Lecture Notes in Computer Science</i> , <b>2014</b> , 50-57	0.9	3
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