

Jens Kattge

List of Publications by Year in Descending Order

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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	Climatic and soil factors explain the two-dimensional spectrum of global plant trait variation.. <i>Nature Ecology and Evolution</i> , 2021 ,	12.3	6
181	A reporting format for leaf-level gas exchange data and metadata. <i>Ecological Informatics</i> , 2021 , 61, 101232	4.2	11
180	Functional biogeography of Neotropical moist forests: Trait-climate relationships and assembly patterns of tree communities. <i>Global Ecology and Biogeography</i> , 2021 , 30, 1430-1446	6.1	2
179	sPlotOpen [An environmentally balanced, open-access, global dataset of vegetation plots. <i>Global Ecology and Biogeography</i> , 2021 , 30, 1740-1764	6.1	6
178	Root traits explain plant species distributions along climatic gradients yet challenge the nature of ecological trade-offs. <i>Nature Ecology and Evolution</i> , 2021 , 5, 1123-1134	12.3	11
177	Comprehensive leaf size traits dataset for seven plant species from digitised herbarium specimen images covering more than two centuries. <i>Biodiversity Data Journal</i> , 2021 , 9, e69806	1.8	3
176	Global root traits (GRoot) database. <i>Global Ecology and Biogeography</i> , 2021 , 30, 25-37	6.1	28
175	PhenoSpace: A Shiny application to visualize trait data in the phenotypic space of the global spectrum of plant form and function. <i>Ecology and Evolution</i> , 2021 , 11, 1526-1534	2.8	2
174	Climatic and evolutionary contexts are required to infer plant life history strategies from functional traits at a global scale. <i>Ecology Letters</i> , 2021 , 24, 970-983	10	4
173	An integrated framework of plant form and function: the belowground perspective. <i>New Phytologist</i> , 2021 , 232, 42-59	9.8	16
172	LT-Brazil: A database of leaf traits across biomes and vegetation types in Brazil. <i>Global Ecology and Biogeography</i> , 2021 , 30, 2136	6.1	0
171	The three major axes of terrestrial ecosystem function. <i>Nature</i> , 2021 , 598, 468-472	50.4	8
170	Updated respiration routines alter spatio-temporal patterns of carbon cycling in a global land surface model. <i>Environmental Research Letters</i> , 2021 , 16, 104015	6.2	
169	Long-term leaf C:N ratio change under elevated CO and nitrogen deposition in China: Evidence from observations and process-based modeling. <i>Science of the Total Environment</i> , 2021 , 800, 149591	10.2	0
168	Global gradients in intraspecific variation in vegetative and floral traits are partially associated with climate and species richness. <i>Global Ecology and Biogeography</i> , 2020 , 29, 992-1007	6.1	13
167	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> , 2020 , 12, e2019MS001841	7.1	7
166	Global plant trait relationships extend to the climatic extremes of the tundra biome. <i>Nature Communications</i> , 2020 , 11, 1351	17.4	19

165	The fungal collaboration gradient dominates the root economics space in plants. <i>Science Advances</i> , 2020 , 6,	14.3	120
164	Acclimation of leaf respiration consistent with optimal photosynthetic capacity. <i>Global Change Biology</i> , 2020 , 26, 2573	11.4	37
163	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
162	Available and missing data to model impact of climate change on European forests. <i>Ecological Modelling</i> , 2020 , 416, 108870	3	26
161	TRY plant trait database - enhanced coverage and open access. <i>Global Change Biology</i> , 2020 , 26, 119-188	11.4	399
160	Similar factors underlie tree abundance in forests in native and alien ranges. <i>Global Ecology and Biogeography</i> , 2020 , 29, 281-294	6.1	8
159	Nutritional constraints on brain evolution: Sodium and nitrogen limit brain size. <i>Evolution; International Journal of Organic Evolution</i> , 2020 , 74, 2304-2319	3.8	1
158	The results of biodiversity-ecosystem functioning experiments are realistic. <i>Nature Ecology and Evolution</i> , 2020 , 4, 1485-1494	12.3	31
157	News on intra-specific trait variation, species sorting, and optimality theory for functional biogeography and beyond. <i>New Phytologist</i> , 2020 , 228, 6-10	9.8	4
156	Inferring plant functional diversity from space: the potential of Sentinel-2. <i>Remote Sensing of Environment</i> , 2019 , 233, 111368	13.2	31
155	sPlot: A new tool for global vegetation analyses. <i>Journal of Vegetation Science</i> , 2019 , 30, 161-186	3.1	96
154	Physically, physiologically and conceptually hidden: Improving the description and communication of seed persistence. <i>Flora: Morphology, Distribution, Functional Ecology of Plants</i> , 2019 , 257, 151413	1.9	4
153	Chronic fertilization and irrigation gradually and increasingly restructure grassland communities. <i>Ecosphere</i> , 2019 , 10, e02625	3.1	4
152	Biodiversity data integration-the significance of data resolution and domain. <i>PLoS Biology</i> , 2019 , 17, e3009183	9.183	38
151	The relationship of woody plant size and leaf nutrient content to large-scale productivity for forests across the Americas. <i>Journal of Ecology</i> , 2019 , 107, 2278-2290	6	11
150	Plant functional trait shifts explain concurrent changes in the structure and function of grassland soil microbial communities. <i>Journal of Ecology</i> , 2019 , 107, 2197-2210	6	35
149	Hardscape floristics: Functional and phylogenetic diversity of parking-lot plants. <i>Applied Vegetation Science</i> , 2019 , 22, 573-581	3.3	1
148	Family-level leaf nitrogen and phosphorus stoichiometry of global terrestrial plants. <i>Science China Life Sciences</i> , 2019 , 62, 1047-1057	8.5	13

147	A global database of paired leaf nitrogen and phosphorus concentrations of terrestrial plants. <i>Ecology</i> , 2019 , 100, e02812	4.6	5
146	Robustness of trait connections across environmental gradients and growth forms. <i>Global Ecology and Biogeography</i> , 2019 , 28, 1806-1826	6.1	19
145	Reply to 'No evidence for different metabolism in domestic mammals'. <i>Nature Ecology and Evolution</i> , 2019 , 3, 323	12.3	
144	Traditional plant functional groups explain variation in economic but not size-related traits across the tundra biome. <i>Global Ecology and Biogeography</i> , 2019 , 28, 78-95	6.1	24
143	Global photosynthetic capacity is optimized to the environment. <i>Ecology Letters</i> , 2019 , 22, 506-517	10	80
142	Plant attributes explain the distribution of soil microbial communities in two contrasting regions of the globe. <i>New Phytologist</i> , 2018 , 219, 574-587	9.8	61
141	Large sensitivity in land carbon storage due to geographical and temporal variation in the thermal response of photosynthetic capacity. <i>New Phytologist</i> , 2018 , 218, 1462-1477	9.8	32
140	Future global productivity will be affected by plant trait response to climate. <i>Scientific Reports</i> , 2018 , 8, 2870	4.9	52
139	Inter- and intraspecific variation in leaf economic traits in wheat and maize. <i>AoB PLANTS</i> , 2018 , 10, ply006.9	6.9	15
138	Advances in flowering phenology across the Northern Hemisphere are explained by functional traits. <i>Global Ecology and Biogeography</i> , 2018 , 27, 310-321	6.1	37
137	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
136	Global leaf nitrogen and phosphorus stoichiometry and their scaling exponent. <i>National Science Review</i> , 2018 , 5, 728-739	10.8	52
135	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> , 2018 , 115, 5229-5234	11.5	52
134	Late Quaternary climate legacies in contemporary plant functional composition. <i>Global Change Biology</i> , 2018 , 24, 4827-4840	11.4	29
133	Global Estimation of Biophysical Variables from Google Earth Engine Platform. <i>Remote Sensing</i> , 2018 , 10, 1167	5	45
132	Multiple facets of biodiversity drive the diversity-stability relationship. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1579-1587	12.3	140
131	Continental mapping of forest ecosystem functions reveals a high but unrealised potential for forest multifunctionality. <i>Ecology Letters</i> , 2018 , 21, 31-42	10	47
130	Global trait-environment relationships of plant communities. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1906-1917	17	209

129	A methodology to derive global maps of leaf traits using remote sensing and climate data. <i>Remote Sensing of Environment</i> , 2018 , 218, 69-88	13.2	58
128	Plant functional trait change across a warming tundra biome. <i>Nature</i> , 2018 , 562, 57-62	50.4	264
127	Phylogenetic patterns and phenotypic profiles of the species of plants and mammals farmed for food. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1808-1817	12.3	33
126	Towards global data products of Essential Biodiversity Variables on species traits. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1531-1540	12.3	100
125	Stand age and species richness dampen interannual variation of ecosystem-level photosynthetic capacity. <i>Nature Ecology and Evolution</i> , 2017 , 1, 48	12.3	60
124	Nitrogen productivity and allocation responses of 12 important tree species to increased CO ₂ . <i>Trees - Structure and Function</i> , 2017 , 31, 617-621	2.6	3
123	Testing the environmental filtering concept in global drylands. <i>Journal of Ecology</i> , 2017 , 105, 1058-1069	6	88
122	A synthesis of tree functional traits related to drought-induced mortality in forests across climatic zones. <i>Journal of Applied Ecology</i> , 2017 , 54, 1669-1686	5.8	108
121	Tree mortality across biomes is promoted by drought intensity, lower wood density and higher specific leaf area. <i>Ecology Letters</i> , 2017 , 20, 539-553	10	199
120	A global Fine-Root Ecology Database to address below-ground challenges in plant ecology. <i>New Phytologist</i> , 2017 , 215, 15-26	9.8	168
119	Dispersal limitation determines large-scale dark diversity in Central and Northern Europe. <i>Journal of Biogeography</i> , 2017 , 44, 1770-1780	4.1	6
118	Climate- and successional-related changes in functional composition of European forests are strongly driven by tree mortality. <i>Global Change Biology</i> , 2017 , 23, 4162-4176	11.4	46
117	A roadmap for improving the representation of photosynthesis in Earth system models. <i>New Phytologist</i> , 2017 , 213, 22-42	9.8	245
116	A global trait-based approach to estimate leaf nitrogen functional allocation from observations. <i>Ecological Applications</i> , 2017 , 27, 1421-1434	4.9	36
115	Sensitivity of community-level trait-environment relationships to data representativeness: A test for functional biogeography. <i>Global Ecology and Biogeography</i> , 2017 , 26, 729-739	6.1	25
114	Taxonomic and functional turnover are decoupled in European peat bogs. <i>Nature Communications</i> , 2017 , 8, 1161	17.4	53
113	Plant community structure and nitrogen inputs modulate the climate signal on leaf traits. <i>Global Ecology and Biogeography</i> , 2017 , 26, 1138-1152	6.1	25
112	Predicting habitat affinities of plant species using commonly measured functional traits. <i>Journal of Vegetation Science</i> , 2017 , 28, 1082-1095	3.1	28

111	Mapping local and global variability in plant trait distributions. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E10937-E10946	11.5	103
110	Towards a thesaurus of plant characteristics: an ecological contribution. <i>Journal of Ecology</i> , 2017 , 105, 298-309	6	75
109	A global method for calculating plant CSR ecological strategies applied across biomes world-wide. <i>Functional Ecology</i> , 2017 , 31, 444-457	5.6	191
108	Invasive species' leaf traits and dissimilarity from natives shape their impact on nitrogen cycling: a meta-analysis. <i>New Phytologist</i> , 2017 , 213, 128-139	9.8	46
107	Functional diversity underlies demographic responses to environmental variation in European forests. <i>Global Ecology and Biogeography</i> , 2017 , 26, 128-141	6.1	41
106	A plant growth form dataset for the New World. <i>Ecology</i> , 2016 , 97, 3243	4.6	26
105	Monitoring plant functional diversity from space. <i>Nature Plants</i> , 2016 , 2, 16024	11.5	164
104	Foliar temperature acclimation reduces simulated carbon sensitivity to climate. <i>Nature Climate Change</i> , 2016 , 6, 407-411	21.4	85
103	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> , 2016 , 24, 164-186	4.5	92
102	Plant functional traits have globally consistent effects on competition. <i>Nature</i> , 2016 , 529, 204-7	50.4	453
101	The global spectrum of plant form and function. <i>Nature</i> , 2016 , 529, 167-71	50.4	1191
100	Functional Resilience against Climate-Driven Extinctions - Comparing the Functional Diversity of European and North American Tree Floras. <i>PLoS ONE</i> , 2016 , 11, e0148607	3.7	13
99	Constraining a land surface model with multiple observations by application of the MPI-Carbon Cycle Data Assimilation System 2016 ,		3
98	Improved representation of plant functional types and physiology in the Joint UK Land Environment Simulator (JULES v4.2) using plant trait information 2016 ,		2
97	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> , 2016 , 9, 2999-3026	6.3	23
96	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> , 2016 , 9, 2415-2440	6.3	79
95	Variation in trait trade-offs allows differentiation among predefined plant functional types: implications for predictive ecology. <i>New Phytologist</i> , 2016 , 209, 563-75	9.8	24
94	Dispersal limitation drives successional pathways in Central Siberian forests under current and intensified fire regimes. <i>Global Change Biology</i> , 2016 , 22, 2178-97	11.4	24

93	Modes of functional biodiversity control on tree productivity across the European continent. <i>Global Ecology and Biogeography</i> , 2016 , 25, 251-262	6.1	64
92	Taxonomic and functional diversity in Mediterranean pastures: insights on the biodiversity-productivity trade-off. <i>Journal of Applied Ecology</i> , 2016 , 53, 1575-1584	5.8	17
91	The flora phenotype ontology (FLOPO): tool for integrating morphological traits and phenotypes of vascular plants. <i>Journal of Biomedical Semantics</i> , 2016 , 7, 65	2.2	24
90	Potential and limitations of inferring ecosystem photosynthetic capacity from leaf functional traits. <i>Ecology and Evolution</i> , 2016 , 6, 7352-7366	2.8	24
89	The imprint of plants on ecosystem functioning: A data-driven approach. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2015 , 43, 119-131	7.3	31
88	Vegetation ecology meets ecosystem science: Permanent grasslands as a functional biogeography case study. <i>Science of the Total Environment</i> , 2015 , 534, 43-51	10.2	30
87	Global effects of land use on local terrestrial biodiversity. <i>Nature</i> , 2015 , 520, 45-50	50.4	1695
86	Global convergence in leaf respiration from estimates of thermal acclimation across time and space. <i>New Phytologist</i> , 2015 , 207, 1026-37	9.8	54
85	BHPMF: a hierarchical Bayesian approach to gap-filling and trait prediction for macroecology and functional biogeography. <i>Global Ecology and Biogeography</i> , 2015 , 24, 1510-1521	6.1	83
84	Phylogenetic measures of plant communities show long-term change and impacts of fire management in tallgrass prairie remnants. <i>Journal of Applied Ecology</i> , 2015 , 52, 1638-1648	5.8	29
83	Estimating the missing species bias in plant trait measurements. <i>Journal of Vegetation Science</i> , 2015 , 26, 828-838	3.1	29
82	Simple measures of climate, soil properties and plant traits predict national-scale grassland soil carbon stocks. <i>Journal of Applied Ecology</i> , 2015 , 52, 1188-1196	5.8	65
81	Contrasting effects of tree diversity on young tree growth and resistance to insect herbivores across three biodiversity experiments. <i>Oikos</i> , 2015 , 124, 1674-1685	4	50
80	A vertically discretised canopy description for ORCHIDEE (SVN r2290) and the modifications to the energy, water and carbon fluxes. <i>Geoscientific Model Development</i> , 2015 , 8, 2035-2065	6.3	57
79	Biogeographic patterns of multi-element stoichiometry of <i>Quercus variabilis</i> leaves across China. <i>Canadian Journal of Forest Research</i> , 2015 , 45, 1827-1834	1.9	17
78	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> , 2015 , 21, 3074-86	11.4	75
77	Leaf and stem economics spectra drive diversity of functional plant traits in a dynamic global vegetation model. <i>Global Change Biology</i> , 2015 , 21, 2711-2725	11.4	111
76	Global variability in leaf respiration in relation to climate, plant functional types and leaf traits. <i>New Phytologist</i> , 2015 , 206, 614-36	9.8	244

75	Which is a better predictor of plant traits: temperature or precipitation?. <i>Journal of Vegetation Science</i> , 2014 , 25, 1167-1180	3.1	217
74	Diversity increases carbon storage and tree productivity in Spanish forests. <i>Global Ecology and Biogeography</i> , 2014 , 23, 311-322	6.1	186
73	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> , 2014 , 114, 1-164.1	4.1	176
72	A single evolutionary innovation drives the deep evolution of symbiotic N ₂ -fixation in angiosperms. <i>Nature Communications</i> , 2014 , 5, 4087	17.4	173
71	Linking plant and ecosystem functional biogeography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13697-702	11.5	188
70	Global relationship of wood and leaf litter decomposability: the role of functional traits within and across plant organs. <i>Global Ecology and Biogeography</i> , 2014 , 23, 1046-1057	6.1	100
69	Are trait-based species rankings consistent across data sets and spatial scales?. <i>Journal of Vegetation Science</i> , 2014 , 25, 235-247	3.1	104
68	Improving ecosystem productivity modeling through spatially explicit estimation of optimal light use efficiency. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 1755-1769	3.7	51
67	Multi-scale phylogenetic structure in coastal dune plant communities across the globe. <i>Journal of Plant Ecology</i> , 2014 , 7, 101-114	1.7	33
66	Uncertainty Quantified Matrix Completion Using Bayesian Hierarchical Matrix Factorization 2014 ,		11
65	The relationship of leaf photosynthetic traits - V _{cmax} and J _{max} - to leaf nitrogen, leaf phosphorus, and specific leaf area: a meta-analysis and modeling study. <i>Ecology and Evolution</i> , 2014 , 4, 3218-35	2.8	222
64	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
63	Plant trait analysis delivers an extensive list of potential green roof species for Mediterranean France. <i>Ecological Engineering</i> , 2014 , 67, 48-59	3.9	47
62	A Semantic Web Faceted Search System for Facilitating Building of Biodiversity and Ecosystems Services. <i>Lecture Notes in Computer Science</i> , 2014 , 50-57	0.9	3
61	Nutrient input from hemiparasitic litter favors plant species with a fast-growth strategy. <i>Plant and Soil</i> , 2013 , 371, 53-66	4.2	14
60	Predicting invertebrate herbivory from plant traits: polycultures show strong nonadditive effects. <i>Ecology</i> , 2013 , 94, 1499-509	4.6	31
59	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> , 2013 , 18, 2386-2395	1.6	9
58	The BETHY/JSBACH Carbon Cycle Data Assimilation System: experiences and challenges. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013 , 118, 1414-1426	3.7	75

57	Harmonizing, annotating and sharing data in biodiversity ecosystem functioning research. <i>Methods in Ecology and Evolution</i> , 2013 , 4, 201-205	7.7	13
56	Modeling the vertical soil organic matter profile using Bayesian parameter estimation. <i>Biogeosciences</i> , 2013 , 10, 399-420	4.6	44
55	Climate and litter quality differently modulate the effects of soil fauna on litter decomposition across biomes. <i>Ecology Letters</i> , 2013 , 16, 1045-53	10	314
54	Whole-plant trait spectra of North American woody plant species reflect fundamental ecological strategies. <i>Ecosphere</i> , 2013 , 4, art128	3.1	39
53	Connecting the Green and Brown Worlds: Allometric and Stoichiometric Predictability of Above- and Below-Ground Networks. <i>Advances in Ecological Research</i> , 2013 , 49, 69-175	4.6	74
52	Corrigendum to Garc�a-Palacios et al. (). <i>Ecology Letters</i> , 2013 , 16, 1418-1418	10	2
51	Impacts of trait variation through observed trait-climate relationships on performance of an Earth system model: a conceptual analysis. <i>Biogeosciences</i> , 2013 , 10, 5497-5515	4.6	99
50	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> , 2013 , 10, 789-802	4.6	34
49	Sampling date, leaf age and root size: implications for the study of plant C:N:p stoichiometry. <i>PLoS ONE</i> , 2013 , 8, e60360	3.7	42
48	Beyond distance-invariant survival in inverse recruitment modeling: A case study in Siberian Pinus sylvestris forests. <i>Ecological Modelling</i> , 2012 , 233, 90-103	3	9
47	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> , 2012 , 15, 831-40	10	230
46	Abiotic drivers and plant traits explain landscape-scale patterns in soil microbial communities. <i>Ecology Letters</i> , 2012 , 15, 1230-1239	10	371
45	Predicting invertebrate herbivory from plant traits: evidence from 51 grassland species in experimental monocultures. <i>Ecology</i> , 2012 , 93, 2674-82	4.6	63
44	Relationships between net primary productivity and forest stand age in U.S. forests. <i>Global Biogeochemical Cycles</i> , 2012 , 26,	5.9	95
43	Phylogenetic and functional characteristics of household yard floras and their changes along an urbanization gradient. <i>Ecology</i> , 2012 , 93, S83-S98	4.6	97
42	Impacts of trait variation through observed trait-climate relationships on performance of a representative Earth System model: a conceptual analysis 2012 ,		4
41	Nutrient limitation reduces land carbon uptake in simulations with a model of combined carbon, nitrogen and phosphorus cycling. <i>Biogeosciences</i> , 2012 , 9, 3547-3569	4.6	219
40	Plant-driven variation in decomposition rates improves projections of global litter stock distribution. <i>Biogeosciences</i> , 2012 , 9, 565-576	4.6	92

39	The coordination of leaf photosynthesis links C and N fluxes in C3 plant species. <i>PLoS ONE</i> , 2012 , 7, e38345	4.5	87
38	Future challenges of representing land-processes in studies on land-atmosphere interactions. <i>Biogeosciences</i> , 2012 , 9, 3587-3599	4.6	45
37	Improving the predictability of global CO2 assimilation rates under climate change. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	55
36	Improving assessment and modelling of climate change impacts on global terrestrial biodiversity. <i>Trends in Ecology and Evolution</i> , 2011 , 26, 249-59	10.9	230
35	Fame, glory and neglect in meta-analyses. <i>Trends in Ecology and Evolution</i> , 2011 , 26, 493-4	10.9	29
34	A generic structure for plant trait databases. <i>Methods in Ecology and Evolution</i> , 2011 , 2, 202-213	7.7	67
33	Feedback of carbon and nitrogen cycles enhances carbon sequestration in the terrestrial biosphere. <i>Global Change Biology</i> , 2011 , 17, 819-842	11.4	67
32	TRY is a global database of plant traits. <i>Global Change Biology</i> , 2011 , 17, 2905-2935	11.4	1623
31	Improving land surface models with FLUXNET data. <i>Biogeosciences</i> , 2009 , 6, 1341-1359	4.6	260
30	Effect of elevated CO2 on soil N dynamics in a temperate grassland soil. <i>Soil Biology and Biochemistry</i> , 2009 , 41, 1996-2001	7.5	68
29	Quantifying photosynthetic capacity and its relationship to leaf nitrogen content for global-scale terrestrial biosphere models. <i>Global Change Biology</i> , 2009 , 15, 976-991	11.4	449
28	Ecophysiological Characteristics of Mature Trees and Stands - Consequences for Old-Growth Forest Productivity. <i>Ecological Studies</i> , 2009 , 57-79	1.1	15
27	Statistical properties of random CO2 flux measurement uncertainty inferred from model residuals. <i>Agricultural and Forest Meteorology</i> , 2008 , 148, 38-50	5.8	117
26	Cross-site evaluation of eddy covariance GPP and RE decomposition techniques. <i>Agricultural and Forest Meteorology</i> , 2008 , 148, 821-838	5.8	221
25	Influences of observation errors in eddy flux data on inverse model parameter estimation. <i>Biogeosciences</i> , 2008 , 5, 1311-1324	4.6	98
24	OptIC project: An intercomparison of optimization techniques for parameter estimation in terrestrial biogeochemical models. <i>Journal of Geophysical Research</i> , 2007 , 112,		74
23	Temperature acclimation in a biochemical model of photosynthesis: a reanalysis of data from 36 species. <i>Plant, Cell and Environment</i> , 2007 , 30, 1176-90	8.4	365
22	Estimation of parameters in complex 15N tracing models by Monte Carlo sampling. <i>Soil Biology and Biochemistry</i> , 2007 , 39, 715-726	7.5	187

21	Will the tropical land biosphere dominate the climate-carbon cycle feedback during the twenty-first century?. <i>Climate Dynamics</i> , 2007 , 29, 565-574	4.2	479
20	Comprehensive comparison of gap-filling techniques for eddy covariance net carbon fluxes. <i>Agricultural and Forest Meteorology</i> , 2007 , 147, 209-232	5.8	645
19	Inversion of terrestrial ecosystem model parameter values against eddy covariance measurements by Monte Carlo sampling. <i>Global Change Biology</i> , 2005 , 11, 1333-1351	11.4	192
18	The fungal collaboration gradient dominates the root economics space in plants		3
17	Biodiversity Data Integration: The significance of data resolution and domain. <i>Biodiversity Information Science and Standards</i> ,3,		2
16	Understanding Intraspecific Trait Variability Using Digital Herbarium Specimen Images. <i>Biodiversity Information Science and Standards</i> ,4,		2
15	Influences of observation errors in eddy flux data on inverse model parameter estimation		8
14	Improving land surface models with FLUXNET data		11
13	Modeling the vertical soil organic matter profile using $\delta^{13}C$ measurements and Bayesian inversion		1
12	Plant-driven variation in decomposition rates improves projections of global litter stock distribution		3
11	Modeling the vertical soil organic matter profile using Bayesian parameter estimation		4
10	Nutrient limitation reduces land carbon uptake in simulations with a model of combined carbon, nitrogen and phosphorus cycling		14
9	Future challenges of representing land-processes in studies on land-atmosphere interactions		2
8	Simultaneous assimilation of satellite and eddy covariance data for improving terrestrial water and carbon simulations at a semi-arid woodland site in Botswana		3
7	The TRY Plant Trait Database - enhanced coverage and open access		8
6	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
5	A vertically discretised canopy description for ORCHIDEE (SVN r2290) and the modifications to the energy, water and carbon fluxes		5
4	The results of biodiversity-ecosystem functioning experiments are realistic		1

3	Half of the world's tree biodiversity is unprotected and is increasingly threatened by human activities	3
2	Global Root Traits (GRoot) Database	2
1	Root traits catching up. <i>New Phytologist</i> ,	9.8 0