List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Temperature sensitivity of soil carbon decomposition and feedbacks to climate change. Nature, 2006, 440, 165-173.	13.7	5,114
2	Persistence of soil organic matter as an ecosystem property. Nature, 2011, 478, 49-56.	13.7	4,243
3	Temperature increase reduces global yields of major crops in four independent estimates. Proceedings of the United States of America, 2017, 114, 9326-9331.	3.3	1,708
4	Reduction of forest soil respiration in response to nitrogen deposition. Nature Geoscience, 2010, 3, 315-322.	5.4	1,254
5	Environmental controls over carbon dioxide and water vapor exchange of terrestrial vegetation. Agricultural and Forest Meteorology, 2002, 113, 97-120.	1.9	1,133
6	On the variability of respiration in terrestrial ecosystems: moving beyond Q 10. Global Change Biology, 2006, 12, 154-164.	4.2	1,055
7	Human-induced nitrogen–phosphorus imbalances alter natural and managed ecosystems across the globe. Nature Communications, 2013, 4, 2934.	5.8	1,013
8	Plant phenology and global climate change: Current progresses and challenges. Global Change Biology, 2019, 25, 1922-1940.	4.2	944
9	Anthropogenic perturbation of the carbon fluxes from land to ocean. Nature Geoscience, 2013, 6, 597-607.	5.4	937
10	CO ₂ balance of boreal, temperate, and tropical forests derived from a global database. Global Change Biology, 2007, 13, 2509-2537.	4.2	863
11	Productivity overshadows temperature in determining soil and ecosystem respiration across European forests. Global Change Biology, 2001, 7, 269-278.	4.2	843
12	Declining global warming effects on the phenology of spring leaf unfolding. Nature, 2015, 526, 104-107.	13.7	637
13	The likely impact of elevated [CO 2], nitrogen deposition, increased temperature and management on carbon sequestration in temperate and boreal forest ecosystems: a literature review. New Phytologist, 2007, 173, 463-480.	3.5	579
14	Europe's Terrestrial Biosphere Absorbs 7 to 12% of European Anthropogenic CO2 Emissions. Science, 2003, 300, 1538-1542.	6.0	551
15	Evidence for soil water control on carbon and water dynamics in European forests during the extremely dry year: 2003. Agricultural and Forest Meteorology, 2007, 143, 123-145.	1.9	509
16	Asymmetric effects of daytime and night-time warming on Northern Hemisphere vegetation. Nature, 2013, 501, 88-92.	13.7	482
17	The humanâ€induced imbalance between C, N and P in Earth's life system. Global Change Biology, 2012, 18, 3-6.	4.2	458
18	Global Convergence in the Temperature Sensitivity of Respiration at Ecosystem Level. Science, 2010, 329, 838-840.	6.0	446

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19	Temporal and amongâ€site variability of inherent water use efficiency at the ecosystem level. Global Biogeochemical Cycles, 2009, 23, .	1.9	422
20	Comparison of different chamber techniques for measuring soil CO2 efflux. Agricultural and Forest Meteorology, 2004, 123, 159-176.	1.9	420
21	Precipitation manipulation experiments – challenges and recommendations for the future. Ecology Letters, 2012, 15, 899-911.	3.0	411
22	Annual Q10 of soil respiration reflects plant phenological patterns as well as temperature sensitivity. Global Change Biology, 2004, 10, 161-169.	4.2	392
23	Leaf onset in the northern hemisphere triggered by daytime temperature. Nature Communications, 2015, 6, 6911.	5.8	384
24	Nutrient availability as the key regulator of global forest carbon balance. Nature Climate Change, 2014, 4, 471-476.	8.1	383
25	Precipitation impacts on vegetation spring phenology on the <scp>T</scp> ibetan <scp>P</scp> lateau. Global Change Biology, 2015, 21, 3647-3656.	4.2	377
26	Simple additive effects are rare: a quantitative review of plant biomass and soil process responses to combined manipulations of <scp><scp>CO₂</scp></scp> and temperature. Global Change Biology, 2012, 18, 2681-2693.	4.2	365
27	Large seasonal changes in Q 10 of soil respiration in a beech forest. Global Change Biology, 2003, 9, 911-918.	4.2	359
28	Mycorrhizal Hyphal Turnover as a Dominant Process for Carbon Input into Soil Organic Matter. Plant and Soil, 2006, 281, 15-24.	1.8	345
29	Delayed autumn phenology in the Northern Hemisphere is related to change in both climate and spring phenology. Global Change Biology, 2016, 22, 3702-3711.	4.2	319
30	Recent global decline of CO ₂ fertilization effects on vegetation photosynthesis. Science, 2020, 370, 1295-1300.	6.0	317
31	Air temperature optima of vegetation productivity across global biomes. Nature Ecology and Evolution, 2019, 3, 772-779.	3.4	316
32	Importance of methane and nitrous oxide for Europe's terrestrial greenhouse-gas balance. Nature Geoscience, 2009, 2, 842-850.	5.4	310
33	Global patterns of phosphatase activity in natural soils. Scientific Reports, 2017, 7, 1337.	1.6	296
34	Fertile forests produce biomass more efficiently. Ecology Letters, 2012, 15, 520-526.	3.0	273
35	Joint control of terrestrial gross primary productivity by plant phenology and physiology. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2788-2793.	3.3	265
36	Potential for large-scale CO2 removal via enhanced rock weathering with croplands. Nature, 2020, 583, 242-248.	13.7	263

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37	Summer soil drying exacerbated by earlier spring greening of northern vegetation. Science Advances, 2020, 6, eaax0255.	4.7	258
38	Variation in leaf flushing date influences autumnal senescence and next year's flushing date in two temperate tree species. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 7355-7360.	3.3	254
39	Sensitivity of decomposition rates of soil organic matter with respect to simultaneous changes in temperature and moisture. Journal of Advances in Modeling Earth Systems, 2015, 7, 335-356.	1.3	252
40	The European carbon balance. Part 3: forests. Global Change Biology, 2010, 16, 1429-1450.	4.2	247
41	Interactive effects of temperature and precipitation on soil respiration in a temperate maritime pine forest. Tree Physiology, 2003, 23, 1263-1270.	1.4	239
42	Soil respiration under climate warming: differential response of heterotrophic and autotrophic respiration. Global Change Biology, 2014, 20, 3229-3237.	4.2	239
43	Microbial carbon limitation: The need for integrating microorganisms into our understanding of ecosystem carbon cycling. Global Change Biology, 2020, 26, 1953-1961.	4.2	239
44	Microbial temperature sensitivity and biomass change explain soil carbon loss with warming. Nature Climate Change, 2018, 8, 885-889.	8.1	230
45	Strong impacts of daily minimum temperature on the greenâ€up date and summer greenness of the Tibetan Plateau. Global Change Biology, 2016, 22, 3057-3066.	4.2	223
46	Wholeâ€system responses of experimental plant communities to climate extremes imposed in different seasons. New Phytologist, 2011, 189, 806-817.	3.5	220
47	Global comparison of light use efficiency models for simulating terrestrial vegetation gross primary production based on the LaThuile database. Agricultural and Forest Meteorology, 2014, 192-193, 108-120.	1.9	220
48	Recent spring phenology shifts in western <scp>C</scp> entral <scp>E</scp> urope based on multiscale observations. Global Ecology and Biogeography, 2014, 23, 1255-1263.	2.7	208
49	Quality control of CarboEurope flux data – Part 1: Coupling footprint analyses with flux data quality assessment to evaluate sites in forest ecosystems. Biogeosciences, 2008, 5, 433-450.	1.3	192
50	Soil water repellency and its implications for organic matter decomposition - is there a link to extreme climatic events?. Global Change Biology, 2011, 17, 2640-2656.	4.2	191
51	Extension of the growing season increases vegetation exposure to frost. Nature Communications, 2018, 9, 426.	5.8	190
52	The European carbon balance. Part 2: croplands. Global Change Biology, 2010, 16, 1409-1428.	4.2	185
53	Weakening temperature control on the interannual variations of spring carbon uptake across northern lands. Nature Climate Change, 2017, 7, 359-363.	8.1	183
54	The carbon budget of terrestrial ecosystems at country-scale – a European case study. Biogeosciences, 2005, 2, 15-26.	1.3	178

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55	Changes in nutrient concentrations of leaves and roots in response to global change factors. Global Change Biology, 2017, 23, 3849-3856.	4.2	174
56	Forest annual carbon cost: a globalâ€scale analysis of autotrophic respiration. Ecology, 2010, 91, 652-661.	1.5	171
57	Shifting from a fertilization-dominated to a warming-dominated period. Nature Ecology and Evolution, 2017, 1, 1438-1445.	3.4	167
58	Net ecosystem CO2 exchange of mixed forest in Belgium over 5 years. Agricultural and Forest Meteorology, 2003, 119, 209-227.	1.9	166
59	Global trends in carbon sinks and their relationships with CO2 and temperature. Nature Climate Change, 2019, 9, 73-79.	8.1	163
60	Unexpected role of winter precipitation in determining heat requirement for spring vegetation greenâ€up at northern middle and high latitudes. Global Change Biology, 2014, 20, 3743-3755.	4.2	159
61	Assessing forest soil CO2 efflux: an in situ comparison of four techniques. Tree Physiology, 2000, 20, 23-32.	1.4	158
62	Increased heat requirement for leaf flushing in temperate woody species over 1980–2012: effects of chilling, precipitation and insolation. Global Change Biology, 2015, 21, 2687-2697.	4.2	158
63	Global forest carbon uptake due to nitrogen and phosphorus deposition from 1850 to 2100. Global Change Biology, 2017, 23, 4854-4872.	4.2	158
64	The European carbon balance. Part 4: integration of carbon and other traceâ€gas fluxes. Global Change Biology, 2010, 16, 1451-1469.	4.2	157
65	Summer heat and drought extremes trigger unexpected changes in productivity of a temperate annual/biannual plant community. Environmental and Experimental Botany, 2012, 79, 21-30.	2.0	152
66	Aboveâ€ground woody carbon sequestration measured from tree rings is coherent with net ecosystem productivity at five eddyâ€covariance sites. New Phytologist, 2014, 201, 1289-1303.	3.5	152
67	Physiological, biochemical, and genomeâ€wide transcriptional analysis reveals that elevated <scp>CO</scp> ₂ mitigates the impact of combined heat wave and drought stress in <i>Arabidopsis thaliana</i> at multiple organizational levels. Global Change Biology, 2014, 20, 3670-3685	4.2	152
68	Plant invasion is associated with higher plant–soil nutrient concentrations in nutrientâ€poor environments. Global Change Biology, 2017, 23, 1282-1291.	4.2	147
69	Hidden, abiotic CO2 flows and gaseous reservoirs in the terrestrial carbon cycle: Review and perspectives. Agricultural and Forest Meteorology, 2010, 150, 321-329.	1.9	146
70	Phase and amplitude of ecosystem carbon release and uptake potentials as derived from FLUXNET measurements. Agricultural and Forest Meteorology, 2002, 113, 75-95.	1.9	145
71	Climatic characteristics of heat waves and their simulation in plant experiments. Global Change Biology, 2010, 16, 1992-2000.	4.2	144
72	The bioelements, the elementome, and the biogeochemical niche. Ecology, 2019, 100, e02652.	1.5	139

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73	Anthropogenic global shifts in biospheric N and P concentrations and ratios and their impacts on biodiversity, ecosystem productivity, food security, and human health. Global Change Biology, 2020, 26, 1962-1985.	4.2	138
74	Impact of priming on global soil carbon stocks. Global Change Biology, 2018, 24, 1873-1883.	4.2	134
75	Basal rates of soil respiration are correlated with photosynthesis in a mixed temperate forest. Global Change Biology, 2007, 13, 2008-2017.	4.2	133
76	The impact of lateral carbon fluxes on the European carbon balance. Biogeosciences, 2008, 5, 1259-1271.	1.3	130
77	The contribution of nitrogen deposition to the photosynthetic capacity of forests. Global Biogeochemical Cycles, 2013, 27, 187-199.	1.9	127
78	Larger temperature response of autumn leaf senescence than spring leafâ€out phenology. Global Change Biology, 2018, 24, 2159-2168.	4.2	124
79	Effects of CO2Enrichment on Trees and Forests: Lessons to be Learned in View of Future Ecosystem Studies. Annals of Botany, 1999, 84, 577-590.	1.4	122
80	Pathways for balancing CO2 emissions and sinks. Nature Communications, 2017, 8, 14856.	5.8	122
81	A representation of the phosphorus cycle for ORCHIDEE (revisionÂ4520). Geoscientific Model Development, 2017, 10, 3745-3770.	1.3	122
82	The global cropland-sparing potential of high-yield farming. Nature Sustainability, 2020, 3, 281-289.	11.5	121
83	Above- and belowground biomass and net primary production in a 73-year-old Scots pine forest. Tree Physiology, 2003, 23, 505-516.	1.4	119
84	How to spend a dwindling greenhouse gas budget. Nature Climate Change, 2018, 8, 7-10.	8.1	119
85	Divergent changes in the elevational gradient of vegetation activities over the last 30 years. Nature Communications, 2019, 10, 2970.	5.8	119
86	The carbon cost of fine root turnover in a Scots pine forest. Forest Ecology and Management, 2002, 168, 231-240.	1.4	118
87	Steeper declines in forest photosynthesis than respiration explain age-driven decreases in forest growth. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8856-8860.	3.3	114
88	Plausible rice yield losses under future climate warming. Nature Plants, 2017, 3, 16202.	4.7	114
89	Biomass production efficiency controlled by management in temperate and boreal ecosystems. Nature Geoscience, 2015, 8, 843-846.	5.4	109
90	Chemical characterisation of atmospheric aerosols during a 2007 summer field campaign at Brasschaat, Belgium: sources and source processes of biogenic secondary organic aerosol. Atmospheric Chemistry and Physics, 2012, 12, 125-138.	1.9	107

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91	Are ecological gradients in seasonal Q10 of soil respiration explained by climate or by vegetation seasonality?. Soil Biology and Biochemistry, 2010, 42, 1728-1734.	4.2	106
92	Global pattern and controls of soil microbial metabolic quotient. Ecological Monographs, 2017, 87, 429-441.	2.4	106
93	Few multiyear precipitation–reduction experiments find aÂshift in the productivity–precipitation relationship. Clobal Change Biology, 2016, 22, 2570-2581.	4.2	105
94	Above- and belowground phytomass and carbon storage in a Belgian Scots pine stand. Annales Des Sciences Forestières, 1999, 56, 81-90.	1.1	104
95	The phosphorus trilemma. Nature Geoscience, 2013, 6, 897-898.	5.4	103
96	Soil respiration in a mixed temperate forest and its contribution to total ecosystem respiration. Tree Physiology, 2005, 25, 609-619.	1.4	101
97	Foliar elemental composition of <scp>E</scp> uropean forest tree species associated with evolutionary traits and present environmental and competitive conditions. Global Ecology and Biogeography, 2015, 24, 240-255.	2.7	100
98	Soil respiration at mean annual temperature predicts annual total across vegetation types and biomes. Biogeosciences, 2010, 7, 2147-2157.	1.3	99
99	Foliar and soil concentrations and stoichiometry of nitrogen and phosphorous across <scp>E</scp> uropean <i><scp>P</scp>inus sylvestris</i> forests: relationships with climate, <scp>N</scp> deposition and tree growth. Functional Ecology, 2016, 30, 676-689.	1.7	99
100	The three major axes of terrestrial ecosystem function. Nature, 2021, 598, 468-472.	13.7	99
101	Elevated atmospheric CO2increases fine root production, respiration, rhizosphere respiration and soil CO2efflux in Scots pine seedlings. Clobal Change Biology, 1998, 4, 871-878.	4.2	96
102	Emergent constraint on crop yield response to warmer temperature from field experiments. Nature Sustainability, 2020, 3, 908-916.	11.5	96
103	Can flux tower research neglect geochemical CO2 exchange?. Agricultural and Forest Meteorology, 2008, 148, 1045-1054.	1.9	95
104	Sensitivity of leaf unfolding to experimental warming in three temperate tree species. Agricultural and Forest Meteorology, 2013, 181, 125-132.	1.9	95
105	Forest floor CO2 fluxes estimated by eddy covariance and chamber-based model. Agricultural and Forest Meteorology, 2001, 106, 61-69.	1.9	94
106	Latitudinal patterns of magnitude and interannual variability in net ecosystem exchange regulated by biological and environmental variables. Global Change Biology, 2009, 15, 2905-2920.	4.2	94
107	Seasonal changes in photosynthesis, respiration and NEE of a mixed temperate forest. Agricultural and Forest Meteorology, 2004, 126, 15-31.	1.9	93
108	Linking variability in soil solution dissolved organic carbon to climate, soil type, and vegetation type. Global Biogeochemical Cycles, 2014, 28, 497-509.	1.9	91

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109	Fluxes of the greenhouse gases (CO2, CH4 and N2O) above a short-rotation poplar plantation after conversion from agricultural land. Agricultural and Forest Meteorology, 2013, 169, 100-110.	1.9	90
110	The influence of local spring temperature variance on temperature sensitivity of spring phenology. Global Change Biology, 2014, 20, 1473-1480.	4.2	90
111	Evaluating the convergence between eddy-covariance and biometric methods for assessing carbon budgets of forests. Nature Communications, 2016, 7, 13717.	5.8	90
112	High clay content accelerates the decomposition of fresh organic matter in artificial soils. Soil Biology and Biochemistry, 2014, 77, 100-108.	4.2	89
113	Daylength helps temperate deciduous trees to leafâ€out at the optimal time. Global Change Biology, 2019, 25, 2410-2418.	4.2	88
114	Stand age and species richness dampen interannual variation of ecosystem-level photosynthetic capacity. Nature Ecology and Evolution, 2017, 1, 48.	3.4	85
115	Climate Extreme Effects on the Chemical Composition of Temperate Grassland Species under Ambient and Elevated CO2: A Comparison of Fructan and Non-Fructan Accumulators. PLoS ONE, 2014, 9, e92044.	1.1	84
116	The Impact of Winter and Spring Temperatures on Temperate Tree Budburst Dates: Results from an Experimental Climate Manipulation. PLoS ONE, 2012, 7, e47324.	1.1	83
117	Three times greater weight of daytime than of nightâ€ŧime temperature on leaf unfolding phenology in temperate trees. New Phytologist, 2016, 212, 590-597.	3.5	82
118	Comparison of Fine Root Dynamics in Scots Pine and Pedunculate Oak in Sandy Soil. Plant and Soil, 2005, 276, 33-45.	1.8	80
119	Velocity of change in vegetation productivity over northern high latitudes. Nature Ecology and Evolution, 2017, 1, 1649-1654.	3.4	79
120	Lipid biomarker temperature proxy responds to abrupt shift in the bacterial community composition in geothermally heated soils. Organic Geochemistry, 2019, 137, 103897.	0.9	78
121	Thermal acclimation of organic matter decomposition in an artificial forest soil is related to shifts in microbial community structure. Soil Biology and Biochemistry, 2014, 71, 1-12.	4.2	77
122	Nutrient-cycling mechanisms other than the direct absorption from soil may control forest structure and dynamics in poor Amazonian soils. Scientific Reports, 2017, 7, 45017.	1.6	76
123	Net carbon storage in a poplar plantation (POPFACE) after three years of free-air CO2 enrichment. Tree Physiology, 2005, 25, 1399-1408.	1.4	74
124	Contrasting net primary productivity and carbon distribution between neighboring stands of Quercus robur and Pinus sylvestris. Tree Physiology, 2005, 25, 701-712.	1.4	74
125	Irrigation and enhanced soil carbon input effects on belowâ€ground carbon cycling in semiarid temperate grasslands. New Phytologist, 2007, 174, 835-846.	3.5	74
126	Bayesian comparison of six different temperature-based budburst models for four temperate tree species. Ecological Modelling, 2012, 230, 92-100.	1.2	74

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127	Can current moisture responses predict soil CO ₂ efflux under altered precipitation regimes? A synthesis of manipulation experiments. Biogeosciences, 2014, 11, 2991-3013.	1.3	74
128	Future Climate CO2 Levels Mitigate Stress Impact on Plants: Increased Defense or Decreased Challenge?. Frontiers in Plant Science, 2016, 7, 556.	1.7	74
129	European land CO2 sink influenced by NAO and East-Atlantic Pattern coupling. Nature Communications, 2016, 7, 10315.	5.8	74
130	Soil properties explain tree growth and mortality, but not biomass, across phosphorus-depleted tropical forests. Scientific Reports, 2020, 10, 2302.	1.6	74
131	Nitrogen's carbon bonus. Nature Geoscience, 2009, 2, 318-319.	5.4	72
132	Seasonally different response of photosynthetic activity to daytime and nightâ€ŧime warming in the Northern Hemisphere. Global Change Biology, 2015, 21, 377-387.	4.2	72
133	Priming of soil organic matter decomposition scales linearly with microbial biomass response to litter input in steppe vegetation. Oikos, 2015, 124, 649-657.	1.2	70
134	Photosynthesis drives anomalies in net carbon-exchange of pine forests at different latitudes. Global Change Biology, 2007, 13, 2110-2127.	4.2	69
135	Potential CO2 removal from enhanced weathering by ecosystem responses to powdered rock. Nature Geoscience, 2021, 14, 545-549.	5.4	69
136	Enhanced Weathering and related element fluxes – a cropland mesocosm approach. Biogeosciences, 2020, 17, 103-119.	1.3	68
137	Asymmetric sensitivity of first flowering date to warming and cooling in alpine plants. Ecology, 2014, 95, 3387-3398.	1.5	67
138	African crop yield reductions due to increasingly unbalanced Nitrogen and Phosphorus consumption. Global Change Biology, 2014, 20, 1278-1288.	4.2	67
139	Dynamics of metabolic responses to periods of combined heat and drought in Arabidopsis thaliana under ambient and elevated atmospheric CO2. Journal of Experimental Botany, 2018, 69, 2159-2170.	2.4	67
140	Spatial variance of spring phenology in temperate deciduous forests is constrained by background climatic conditions. Nature Communications, 2019, 10, 5388.	5.8	66
141	Soil [N] modulates soil C cycling in CO ₂ â€fumigated tree stands: a metaâ€analysis. Plant, Cell and Environment, 2010, 33, 2001-2011.	2.8	65
142	How do climate warming and species richness affect CO 2 fluxes in experimental grasslands?. New Phytologist, 2007, 175, 512-522.	3.5	63
143	Short photoperiod reduces the temperature sensitivity of leafâ€out in saplings of <i>Fagus sylvatica</i> but not in horse chestnut. Global Change Biology, 2019, 25, 1696-1703.	4.2	63
144	Water flux estimates from a Belgian Scots pine stand: a comparison of different approaches. Journal of Hydrology, 2003, 270, 230-252.	2.3	62

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145	Seasonal hysteresis of net ecosystem exchange in response to temperature change: patterns and causes. Global Change Biology, 2011, 17, 3102-3114.	4.2	62
146	Spatial variability and controls over biomass stocks, carbon fluxes, and resource-use efficiencies across forest ecosystems. Trees - Structure and Function, 2014, 28, 597-611.	0.9	62
147	Atmospheric deposition, CO2, and change in the land carbon sink. Scientific Reports, 2017, 7, 9632.	1.6	62
148	Soil microbial CNP and respiration responses to organic matter and nutrient additions: Evidence from a tropical soil incubation. Soil Biology and Biochemistry, 2018, 122, 141-149.	4.2	62
149	Toward a consistency crossâ€check of eddy covariance flux–based and biometric estimates of ecosystem carbon balance. Global Biogeochemical Cycles, 2009, 23, .	1.9	61
150	Pan-European delta13C values of air and organic matter from forest ecosystems. Global Change Biology, 2005, 11, 1065-1093.	4.2	60
151	The importance of dissolved organic carbon fluxes for the carbon balance of a temperate Scots pine forest. Agricultural and Forest Meteorology, 2011, 151, 270-278.	1.9	60
152	Do successive climate extremes weaken the resistance of plant communities? An experimental study using plant assemblages. Biogeosciences, 2014, 11, 109-121.	1.3	60
153	Proton Transfer Reaction Time-of-Flight Mass Spectrometric (PTR-TOF-MS) determination of volatile organic compounds (VOCs) emitted from a biomass fire developed under stable nocturnal conditions. Atmospheric Environment, 2014, 97, 54-67.	1.9	59
154	Diagnosing phosphorus limitations in natural terrestrial ecosystems in carbon cycle models. Earth's Future, 2017, 5, 730-749.	2.4	59
155	The effect of global change on soil phosphatase activity. Global Change Biology, 2021, 27, 5989-6003.	4.2	59
156	Field-experiment constraints on the enhancement of the terrestrial carbon sink by CO2 fertilization. Nature Geoscience, 2019, 12, 809-814.	5.4	58
157	Increasing atmospheric CO2 concentrations correlate with declining nutritional status of European forests. Communications Biology, 2020, 3, 125.	2.0	58
158	Spatially explicit analysis identifies significant potential for bioenergy with carbon capture and storage in China. Nature Communications, 2021, 12, 3159.	5.8	58
159	Recent advances and future research in ecological stoichiometry. Perspectives in Plant Ecology, Evolution and Systematics, 2021, 50, 125611.	1.1	57
160	Geothermal ecosystems as natural climate change experiments: The ForHot research site in Iceland as a case study. Icelandic Agricultural Sciences, 0, 29, 53-71.	0.0	55
161	Ecosystem CO ₂ fluxes of arbuscular and ectomycorrhizal dominated vegetation types are differentially influenced by precipitation and temperature. New Phytologist, 2010, 185, 226-236.	3.5	53
162	Physiological and molecular alterations in plants exposed to high [CO2] under phosphorus stress. Biotechnology Advances, 2015, 33, 303-316.	6.0	53

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163	Nutrient scarcity as a selective pressure for mast seeding. Nature Plants, 2019, 5, 1222-1228.	4.7	53
164	ORCHIDEE-SOM: modeling soil organic carbon (SOC) and dissolved organic carbon (DOC) dynamics along vertical soil profiles in Europe. Geoscientific Model Development, 2018, 11, 937-957.	1.3	52
165	Stored water use and transpiration in Scots pine: a modeling analysis with ANAFORE. Tree Physiology, 2007, 27, 1671-1685.	1.4	51
166	Energy and climate benefits of bioelectricity from low-input short rotation woody crops on agricultural land over a two-year rotation. Applied Energy, 2013, 111, 862-870.	5.1	51
167	Net ecosystem production and carbon balance of an SRC poplar plantation during its first rotation. Biomass and Bioenergy, 2013, 56, 412-422.	2.9	51
168	New feed sources key to ambitious climate targets. Carbon Balance and Management, 2015, 10, 26.	1.4	51
169	Empirical support for the biogeochemical niche hypothesis in forest trees. Nature Ecology and Evolution, 2021, 5, 184-194.	3.4	50
170	On the causes of trends in the seasonal amplitude of atmospheric <scp>CO</scp> ₂ . Global Change Biology, 2018, 24, 608-616.	4.2	48
171	Climatic Influences on Seasonal and Spatial Differences in Soil CO2 Efflux. Ecological Studies, 2003, , 233-253.	0.4	48
172	Phenological responses of Icelandic subarctic grasslands to shortâ€ŧerm and longâ€ŧerm natural soil warming. Global Change Biology, 2017, 23, 4932-4945.	4.2	47
173	Future climate alleviates stress impact on grassland productivity through altered antioxidant capacity. Environmental and Experimental Botany, 2014, 99, 150-158.	2.0	45
174	N2O fluxes of a bio-energy poplar plantation during a two years rotation period. GCB Bioenergy, 2013, 5, 536-547.	2.5	44
175	New insights in the capability of climate models to simulate the impact of LUC based on temperature decomposition of paired site observations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5417-5436.	1.2	44
176	Simulating the onset of spring vegetation growth across the Northern Hemisphere. Global Change Biology, 2018, 24, 1342-1356.	4.2	44
177	The Integrated Carbon Observation System in Europe. Bulletin of the American Meteorological Society, 2022, 103, E855-E872.	1.7	44
178	Variation of specific leaf area and upscaling to leaf area index in mature Scots pine. Trees - Structure and Function, 2006, 20, 304-310.	0.9	43
179	The role of nutrients, productivity and climate in determining tree fruit production in European forests. New Phytologist, 2017, 213, 669-679.	3.5	42
180	Modeling leaf senescence of deciduous tree species in Europe. Global Change Biology, 2020, 26, 4104-4118.	4.2	41

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181	Calibration and validation of an empirical approach to model soil CO2 efflux in a deciduous forest. Biogeochemistry, 2005, 73, 209-230.	1.7	40
182	Climatic Warming Increases Spatial Synchrony in Spring Vegetation Phenology Across the Northern Hemisphere. Geophysical Research Letters, 2019, 46, 1641-1650.	1.5	40
183	Below-ground carbon inputs contribute more than above-ground inputs to soil carbon accrual in a bioenergy poplar plantation. Plant and Soil, 2019, 434, 363-378.	1.8	40
184	Essential outcomes for COP26. Global Change Biology, 2022, 28, 1-3.	4.2	40
185	Can publication bias affect ecological research? A case study on soil respiration under elevated CO ₂ . New Phytologist, 2011, 190, 517-521.	3.5	39
186	Fine root biomass and turnover of two fast-growing poplar genotypes in a short-rotation coppice culture. Plant and Soil, 2013, 373, 269-283.	1.8	39
187	ORCHIMIC (v1.0), a microbe-mediated model for soil organic matter decomposition. Geoscientific Model Development, 2018, 11, 2111-2138.	1.3	39
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