Ying-Ping Wang

List of Publications by Citations

205 papers	15,364 citations	61 h-index	121 g-index
274 ext. papers	18,547 ext. citations	7.6 avg, IF	6.38 L-index

#	Paper	IF	Citations
205	Greening of the Earth and its drivers. *Nature Climate Change*, **2016**, 6, 791-795	21.4	1036
204	Harmonization of land-use scenarios for the period 15002100: 600 years of global gridded annual land-use transitions, wood harvest, and resulting secondary lands. *Climatic Change*, **2011**, 109, 117-161	4.5	883
203	Carbon cycle. The dominant role of semi-arid ecosystems in the trend and variability of the land CO_2 sink. *Science*, **2015**, 348, 895-9	33.3	684
202	A unifying framework for dinitrogen fixation in the terrestrial biosphere. *Nature*, **2008**, 454, 327-30	50.4	535
201	A two-leaf model for canopy conductance, photosynthesis and partitioning of available energy I:: Model description and comparison with a multi-layered model. *Agricultural and Forest Meteorology*, **1998**, 91, 89-111	5.8	466
200	A global model of carbon, nitrogen and phosphorus cycles for the terrestrial biosphere. *Biogeosciences*, **2010**, 7, 2261-2282	4.6	442
199	Detection and attribution of vegetation greening trend in China over the last 30years. *Global Change Biology*, **2015**, 21, 1601-9	11.4	373
198	Global carbon budget 2014. *Earth System Science Data*, **2015**, 7, 47-85	10.5	367
197	Description and validation of an array model MAESTRO. *Agricultural and Forest Meteorology*, **1990**, 51, 257-280	5.8	356
196	Compensatory water effects link yearly global land CO sink changes to temperature. *Nature*, **2017**, 541, 516-520	50.4	341
195	A Two-Big-Leaf Model for Canopy Temperature, Photosynthesis, and Stomatal Conductance. *Journal of Climate*, **2004**, 17, 2281-2299	4.4	332
194	Evaluation of 11 terrestrial carbon-nitrogen cycle models against observations from two temperate Free-Air CO_2 Enrichment studies. *New Phytologist*, **2014**, 202, 803-822	9.8	300
193	Forest water use and water use efficiency at elevated CO_2 : a model-data intercomparison at two contrasting temperate forest FACE sites. *Global Change Biology*, **2013**, 19, 1759-79	11.4	271
192	Increased atmospheric vapor pressure deficit reduces global vegetation growth. *Science Advances*, **2019**, 5, eaax1396	14.3	270
191	Improving land surface models with FLUXNET data. *Biogeosciences*, **2009**, 6, 1341-1359	4.6	260
190	Multi-decadal trends in global terrestrial evapotranspiration and its components. *Scientific Reports*, **2016**, 6, 19124	4.9	253
189	Toward more realistic projections of soil carbon dynamics by Earth system models. *Global Biogeochemical Cycles*, **2016**, 30, 40-56	5.9	251

170	Reliable, robust and realistic: the three Rs of next-generation land-surface modelling. *Atmospheric Chemistry and Physics*, **2015**, 15, 5987-6005	6.8	118
169	Traceable components of terrestrial carbon storage capacity in biogeochemical models. *Global Change Biology*, **2013**, 19, 2104-16	11.4	113
168	A test of an optimal stomatal conductance scheme within the CABLE land surface model. *Geoscientific Model Development*, **2015**, 8, 431-452	6.3	108
167	Recent increases in terrestrial carbon uptake at little cost to the water cycle. *Nature Communications*, **2017**, 8, 110	17.4	103
166	Enhanced peak growth of global vegetation and its key mechanisms. *Nature Ecology and Evolution*, **2018**, 2, 1897-1905	12.3	97
165	Increasing phosphorus limitation along three successional forests in southern China. *Plant and Soil*, **2013**, 364, 181-191	4.2	95
164	The land surface model component of ACCESS: description and impact on the simulated surface climatology. *Australian Meteorological Magazine*, **2013**, 63, 65-82		94
163	Amazon forest response to CO2 fertilization dependent on plant phosphorus acquisition. *Nature Geoscience*, **2019**, 12, 736-741	18.3	92
162	Estimates of soil respiration and net primary production of three forests at different succession stages in South China. *Global Change Biology*, **2006**, 12, 810-821	11.4	91
161	Carbon balance in the tundra, boreal forest and humid tropical forest during climate change: scaling up from leaf physiology and soil carbon dynamics. *Plant, Cell and Environment*, **1995**, 18, 1226-1244	8.4	87
160	Biogeographic variation in evergreen conifer needle longevity and impacts on boreal forest carbon cycle projections. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 13703-8	11.5	85
159	Comprehensive ecosystem model-data synthesis using multiple data sets at two temperate forest free-air CO2 enrichment experiments: Model performance at ambient CO2 concentration. *Journal of Geophysical Research G: Biogeosciences*, **2014**, 119, 937-964	3.7	83
158	A semi-analytical solution to accelerate spin-up of a coupled carbon and nitrogen land model to steady state. *Geoscientific Model Development*, **2012**, 5, 1259-1271	6.3	81
157	Carbon cycle confidence and uncertainty: Exploring variation among soil biogeochemical models. *Global Change Biology*, **2018**, 24, 1563-1579	11.4	79
156	Grasslands may be more reliable carbon sinks than forests in California. *Environmental Research Letters*, **2018**, 13, 074027	6.2	78
155	Predicting long-term carbon sequestration in response to CO2 enrichment: How and why do current ecosystem models differ?. *Global Biogeochemical Cycles*, **2015**, 29, 476-495	5.9	77
154	OptIC project: An intercomparison of optimization techniques for parameter estimation in terrestrial biogeochemical models. *Journal of Geophysical Research*, **2007**, 112,		74
153	A search for predictive understanding of plant responses to elevated [CO2]. *Global Change Biology*, **1999**, 5, 143-156	11.4	73

152	A two-leaf model for canopy conductance, photosynthesis and partitioning of available energy. II. Comparison with measurements. *Agricultural and Forest Meteorology*, **1998**, 91, 113-125	5.8	71
151	Modifying Existing Forest Growth Models to Take Account of Effects of Elevated CO2. *Australian Journal of Botany*, **1992**, 40, 657	1.2	71
150	Two-dimensional needle-area density distribution within the crowns of Pinus radiata. *Forest Ecology and Management*, **1990**, 32, 217-237	3.9	69
149	Improving the responses of the Australian community land surface model (CABLE) to seasonal drought. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		67
148	Soil-atmosphere trace gas exchange in semiarid and arid zones. *Journal of Environmental Quality*, **2008**, 37, 599-607	3.4	65
147	Limitations of nitrogen and phosphorous on the terrestrial carbon uptake in the 20th century. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	63
146	Global patterns and climate drivers of water-use efficiency in terrestrial ecosystems deduced from satellite-based datasets and carbon cycle models. *Global Ecology and Biogeography*, **2016**, 25, 311-323	6.1	63
145	Transient dynamics of terrestrial carbon storage: mathematical foundation and its applications. *Biogeosciences*, **2017**, 14, 145-161	4.6	61
144	Nitrogen allocation and carbon isotope fractionation in relation to intercepted radiation and position in a young Pinus radiata D. Don tree. *Plant, Cell and Environment*, **1998**, 21, 795-803	8.4	61
143	Using models to guide field experiments: a priori predictions for the CO2 response of a nutrient- and water-limited native Eucalypt woodland. *Global Change Biology*, **2016**, 22, 2834-51	11.4	60
142	Systematic Bias in Land Surface Models. *Journal of Hydrometeorology*, **2007**, 8, 989-1001	3.7	60
141	Potential CO2-Enhanced Carbon Storage by the Terrestrial Biosphere. *Australian Journal of Botany*, **1992**, 40, 641	1.2	60
140	The Australian Earth System Model: ACCESS-ESM1.5. *Journal of Southern Hemisphere Earth Systems Science*, **2020**, 70, 193	2.1	60
139	Isotopic identification of nitrogen hotspots across natural terrestrial ecosystems. *Biogeosciences*, **2012**, 9, 3287-3304	4.6	58
138	Seasonal responses of terrestrial ecosystem water-use efficiency to climate change. *Global Change Biology*, **2016**, 22, 2165-77	11.4	57
137	Nitrogen and phosphorous limitations significantly reduce future allowable CO2 emissions. *Geophysical Research Letters*, **2014**, 41, 632-637	4.9	56
136	A comparison of three different canopy radiation models commonly used in plant modelling. *Functional Plant Biology*, **2003**, 30, 143-152	2.7	55
135	Examining soil carbon uncertainty in a global model: response of microbial decomposition to temperature, moisture and nutrient limitation. *Biogeosciences*, **2013**, 10, 7095-7108	4.6	54

134	Impact of the representation of stomatal conductance on model projections of heatwave intensity. *Scientific Reports*, **2016**, 6, 23418	4.9	53
133	Do land surface models need to include differential plant species responses to drought? Examining model predictions across a mesic-xeric gradient in Europe. *Biogeosciences*, **2015**, 12, 7503-7518	4.6	52
132	Benchmarking global land surface models against the observed mean annual runoff from 150 large basins. *Journal of Hydrology*, **2012**, 470-471, 269-279	6	50
131	Diffusion of 15N-labelled N2O into soil columns: a promising method to examine the fate of N2O in subsoils. *Soil Biology and Biochemistry*, **2006**, 38, 1462-1468	7.5	49
130	The carbon cycle in the Australian Community Climate and Earth System Simulator (ACCESS-ESM1) Part 1: Model description and pre-industrial simulation. *Geoscientific Model Development*, **2017**, 10, 2567-2590	6.3	48
129	Correlations among leaf traits provide a significant constraint on the estimate of global gross primary production. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	47
128	Down-regulation of tissue N:P ratios in terrestrial plants by elevated CO2. *Ecology*, **2015**, 96, 3354-62	4.6	46
127	Oscillatory behavior of two nonlinear microbial models of soil carbon decomposition. *Biogeosciences*, **2014**, 11, 1817-1831	4.6	44
126	Carbon balance of young birch trees grown in ambient and elevated atmospheric CO2 concentrations. *Global Change Biology*, **1998**, 4, 797-807	11.4	44
125	Model simulations of spatial distributions and daily totals of photosynthesis in Eucalyptus grandis canopies. *Oecologia*, **1991**, 88, 494-503	2.9	41
124	Implementation of an optimal stomatal conductance scheme in the Australian Community Climate Earth Systems Simulator (ACCESS1.3b). *Geoscientific Model Development*, **2015**, 8, 3877-3889	6.3	40
123	Sensitivity of wheat growth to increased air temperature for different scenarios of ambient CO2 concentration and rainfall in Victoria, Australia - a simulation study. *Climate Research*, **1992**, 2, 131-149	1.6	40
122	Decadal biomass increment in early secondary succession woody ecosystems is increased by CO enrichment. *Nature Communications*, **2019**, 10, 454	17.4	37
121	Nitrous oxide emissions from a legume pasture and the influences of liming and urine addition. *Agriculture, Ecosystems and Environment*, **2010**, 136, 262-272	5.7	37
120	Using indirect methods to constrain symbiotic nitrogen fixation rates: a case study from an Amazonian rain forest. *Biogeochemistry*, **2010**, 99, 1-13	3.8	37
119	Soil organic matter is important for acid buffering and reducing aluminum leaching from acidic forest soils. *Chemical Geology*, **2018**, 501, 86-94	4.2	37
118	Asymmetric responses of primary productivity to altered precipitation simulated by ecosystem models across three long-term grassland sites. *Biogeosciences*, **2018**, 15, 3421-3437	4.6	36
117	An efficient method for global parameter sensitivity analysis and its applications to the Australian community land surface model (CABLE). *Agricultural and Forest Meteorology*, **2013**, 182-183, 292-303	5.8	36

116	A comparative analysis of simulated and observed photosynthetic CO2 uptake in two coniferous forest canopies. *Tree Physiology*, **2006**, 26, 845-64	4.2	36
115	Par Absorption and Its Relation to Above-Ground Dry Matter Production of Sitka Spruce. *Journal of Applied Ecology*, **1991**, 28, 547	5.8	36
114	Different patterns of ecosystem carbon accumulation between a young and an old-growth subtropical forest in Southern China. *Plant Ecology*, **2011**, 212, 1385-1395	1.7	35
113	Mean leaf angles for the ellipsoidal inclination angle distribution. *Agricultural and Forest Meteorology*, **1988**, 43, 319-321	5.8	35
112	Responses of two nonlinear microbial models to warming and increased carbon input. *Biogeosciences*, **2016**, 13, 887-902	4.6	35
111	Adaptive Carbon Allocation by Plants Enhances the Terrestrial Carbon Sink. *Scientific Reports*, **2017**, 7, 3341	4.9	34
110	A refinement to the two-leaf model for calculating canopy photosynthesis. *Agricultural and Forest Meteorology*, **2000**, 101, 143-150	5.8	34
109	Challenges and opportunities in land surface modelling of savanna ecosystems. *Biogeosciences*, **2017**, 14, 4711-4732	4.6	32
108	Challenging terrestrial biosphere models with data from the long-term multifactor Prairie Heating and CO Enrichment experiment. *Global Change Biology*, **2017**, 23, 3623-3645	11.4	31
107	Improving the ability of the photochemical reflectance index to track canopy light use efficiency through differentiating sunlit and shaded leaves. *Remote Sensing of Environment*, **2017**, 194, 1-15	13.2	31
106	Joint structural and physiological control on the interannual variation in productivity in a temperate grassland: A data-model comparison. *Global Change Biology*, **2018**, 24, 2965-2979	11.4	31
105	Estimating global gross primary productivity using chlorophyll fluorescence and a data assimilation system with the BETHY-SCOPE model. *Biogeosciences*, **2019**, 16, 3069-3093	4.6	30
104	Rainfall manipulation experiments as simulated by terrestrial biosphere models: Where do we stand?. *Global Change Biology*, **2020**, 26, 3336-3355	11.4	30
103	More replenishment than priming loss of soil organic carbon with additional carbon input. *Nature Communications*, **2018**, 9, 3175	17.4	30
102	The impact of nitrogen and phosphorous limitation on the estimated terrestrial carbon balance and warming of land use change over the last 156 yr. *Earth System Dynamics*, **2013**, 4, 333-345	4.8	30
101	Evaluating Surface Water Cycle Simulated by the Australian Community Land Surface Model (CABLE) across Different Spatial and Temporal Domains. *Journal of Hydrometeorology*, **2013**, 14, 1119-1138	3.7	29
100	Neural Error Regression Diagnosis (NERD): A Tool for Model Bias Identification and Prognostic Data Assimilation. *Journal of Hydrometeorology*, **2006**, 7, 160-177	3.7	29
99	Divergent predictions of carbon storage between two global land models: attribution of the causes through traceability analysis. *Earth System Dynamics*, **2016**, 7, 649-658	4.8	28

98	Impacts of elevated CO2, climate change and their interactions on water budgets in four different catchments in Australia. *Journal of Hydrology*, **2014**, 519, 1350-1361	6	27
97	Transit times and mean ages for nonautonomous and autonomous compartmental systems. *Journal of Mathematical Biology*, **2016**, 73, 1379-1398	2	26
96	Interactive effects of nitrogen and phosphorus additions on plant growth vary with ecosystem type. *Plant and Soil*, **2019**, 440, 523-537	4.2	25
95	Using atmospheric CO2 data to assess a simplified carbon-climate simulation for the 20th century. *Tellus, Series B: Chemical and Physical Meteorology*, **2006**, 58, 427-437	3.3	25
94	A model inter-comparison study to examine limiting factors in modelling Australian tropical savannas. *Biogeosciences*, **2016**, 13, 3245-3265	4.6	25
93	Microbial dynamics and soil physicochemical properties explain large-scale variations in soil organic carbon. *Global Change Biology*, **2020**, 26, 2668	11.4	24
92	Quantifying the impacts of vegetation changes on catchment storage-discharge dynamics using paired-catchment data. *Water Resources Research*, **2017**, 53, 5963-5979	5.4	24
91	A novel silvicultural model for increasing biopolymer production from Eucommia ulmoides Oliver trees. *Industrial Crops and Products*, **2013**, 42, 216-222	5.9	23
90	Modelling evapotranspiration during precipitation deficits: identifying critical processes in a land surface model. *Hydrology and Earth System Sciences*, **2016**, 20, 2403-2419	5.5	23
89	Responses of soil buffering capacity to acid treatment in three typical subtropical forests. *Science of the Total Environment*, **2016**, 563-564, 1068-77	10.2	22
88	Carbon uptake by karsts in the Houzhai Basin, southwest China. *Journal of Geophysical Research*, **2011**, 116,		22
87	Simulation of optimal development for spring wheat at two locations in southern Australia under present and changed climate conditions. *Agricultural and Forest Meteorology*, **1996**, 79, 9-28	5.8	22
86	Incorporation of plant traits in a land surface model helps explain the global biogeographical distribution of major forest functional types. *Global Ecology and Biogeography*, **2017**, 26, 304-317	6.1	21
85	Sensitivity of net ecosystem exchange and heterotrophic respiration to parameterization uncertainty. *Journal of Geophysical Research D: Atmospheres*, **2013**, 118, 1640-1651	4.4	21
84	Comparisons of field measurements of carbon dioxide and nitrous oxide fluxes with model simulations for a legume pasture in southeast Australia. *Journal of Geophysical Research*, **1997**, 102, 28013-28024		21
83	Development of a spatially explicit inventory of methane emissions from Australia and its verification using atmospheric concentration data. *Atmospheric Environment*, **2002**, 36, 4965-4975	5.3	21
82	Influence of Shoot Structure on the Photosynthesis of Sitka Spruce (Picea sitchensis). *Functional Ecology*, **1993**, 7, 433	5.6	21
81	GOLUM-CNP v1.0: a data-driven modeling of carbon, nitrogen and phosphorus cycles in major terrestrial biomes. *Geoscientific Model Development*, **2018**, 11, 3903-3928	6.3	21

80	Using research networks to create the comprehensive datasets needed to assess nutrient availability as a key determinant of terrestrial carbon cycling. *Environmental Research Letters*, **2018**, 13, 125006	6.2	21
79	Nitrogen and phosphorous limitation reduces the effects of land use change on land carbon uptake or emission. *Environmental Research Letters*, **2015**, 10, 014001	6.2	18
78	Land and ocean nutrient and carbon cycle interactions. *Current Opinion in Environmental Sustainability*, **2010**, 2, 258-263	7.2	18
77	The response of ginseng grown on farmland to foliar-applied iron, zinc, manganese and copper. *Industrial Crops and Products*, **2013**, 45, 388-394	5.9	17
76	Modeling permafrost thaw and ecosystem carbon cycle under annual and seasonal warming at an Arctic tundra site in Alaska. *Journal of Geophysical Research G: Biogeosciences*, **2014**, 119, 1129-1146	3.7	17
75	Soil–atmosphere exchange of CH_4, CO, N_2O and NO_x and the effects of land-use change in the semiarid Mallee system in Southeastern Australia. *Global Change Biology*, **2010**, 16, 2407	11.4	17
74	Dominant regions and drivers of the variability of the global land carbon sink across timescales. *Global Change Biology*, **2018**, 24, 3954-3968	11.4	16
73	The CSIRO Mk3L climate system model v1.0 coupled to the CABLE land surface scheme v1.4b: evaluation of the control climatology. *Geoscientific Model Development*, **2011**, 4, 1115-1131	6.3	16
72	Global Patterns in Net Primary Production Allocation Regulated by Environmental Conditions and Forest Stand Age: A Model-Data Comparison. *Journal of Geophysical Research G: Biogeosciences*, **2019**, 124, 2039-2059	3.7	15
71	Parameter optimization for carbon and water fluxes in two global land surface models based on surrogate modelling. *International Journal of Climatology*, **2018**, 38, e1016-e1031	3.5	15
70	Soil organic carbon and nutrient losses resulted from spring dust emissions in Northern China. *Atmospheric Environment*, **2019**, 213, 585-596	5.3	15
69	. *Tellus, Series B: Chemical and Physical Meteorology*, **2003**, 55, 270-289	3.3	15
68	Growing-season temperature and precipitation are independent drivers of global variation in xylem hydraulic conductivity. *Global Change Biology*, **2020**, 26, 1833-1841	11.4	15
67	Nitrogen Deposition Maintains a Positive Effect on Terrestrial Carbon Sequestration in the 21st Century Despite Growing Phosphorus Limitation at Regional Scales. *Global Biogeochemical Cycles*, **2019**, 33, 810-824	5.9	14
66	Quantification and attribution of errors in the simulated annual gross primary production and latent heat fluxes by two global land surface models. *Journal of Advances in Modeling Earth Systems*, **2016**, 8, 1270-1288	7.1	14
65	Linear and nonlinear effects of dominant drivers on the trends in global and regional land carbon uptake: 1959 to 2013. *Geophysical Research Letters*, **2016**, 43, 1607-1614	4.9	13
64	Tradeoff of CO_2 and CH_4 emissions from global peatlands under water-table drawdown. *Nature Climate Change*,	21.4	13
63	Evaluating Global Land Surface Models in CMIP5: Analysis of Ecosystem Water- and Light-Use Efficiencies and Rainfall Partitioning. *Journal of Climate*, **2018**, 31, 2995-3008	4.4	12

62	The response of soil respiration to precipitation change is asymmetric and differs between grasslands and forests. *Global Change Biology*, **2020**, 26, 6015-6024	11.4	12
61	Ecosystem carbon transit versus turnover times in response to climate warming and rising atmospheric CO<sub>2</sub> concentration. *Biogeosciences*, **2018**, 15, 6559-6572	4.6	12
60	Can the stomatal response to higher atmospheric carbon dioxide explain the unusual temperatures during the 2002 Murray-Darling Basin drought?. *Journal of Geophysical Research*, **2010**, 115,		11
59	Reliable, robust and realistic: the three R s of next-generation land surface modelling		11
58	Do land surface models need to include differential plant species responses to drought? Examining model predictions across a latitudinal gradient in Europe		11
57	Global Carbon Sequestration Is Highly Sensitive to Model-Based Formulations of Nitrogen Fixation. *Global Biogeochemical Cycles*, **2020**, 34, e2019GB006296	5.9	11
56	Leaf area index identified as a major source of variability in modeled CO<sub>2</sub> fertilization. *Biogeosciences*, **2018**, 15, 6909-6925	4.6	11
55	Soil Organic Carbon Stabilization in the Three Subtropical Forests: Importance of Clay and Metal Oxides. *Journal of Geophysical Research G: Biogeosciences*, **2019**, 124, 2976-2990	3.7	10
54	Quantifying the biophysical effects of forests on local air temperature using a novel three-layered land surface energy balance model. *Environment International*, **2019**, 132, 105080	12.9	9
53	Responses of LAI to rainfall explain contrasting sensitivities to carbon uptake between forest and non-forest ecosystems in Australia. *Scientific Reports*, **2017**, 7, 11720	4.9	9
52	Quantifying the effects of elevated CO2 on water budgets by combining FACE data with an ecohydrological model. *Ecohydrology*, **2014**, 7, 1574-1588	2.5	9
51	. *Tellus, Series B: Chemical and Physical Meteorology*, **2003**, 55, 290-304	3.3	9
50	A Model of Wheat Grain Growth and Its Applications to Different Temperature and Carbon Dioxide Levels. *Functional Plant Biology*, **1995**, 22, 843	2.7	8
49	Estimating global gross primary productivity using chlorophyll fluorescence and a data assimilation system with the BETHY-SCOPE model		8
48	Non-uniform seasonal warming regulates vegetation greening and atmospheric CO 2 amplification over northern lands. *Environmental Research Letters*, **2018**, 13, 124008	6.2	8
47	Plant Feedback Aggravates Soil Organic Carbon Loss Associated With Wind Erosion in Northwest China. *Journal of Geophysical Research G: Biogeosciences*, **2019**, 124, 825-839	3.7	7
46	Divergent responses of soil organic carbon accumulation to 14 years of nitrogen addition in two typical subtropical forests. *Science of the Total Environment*, **2020**, 707, 136104	10.2	7
45	Role contribution of biological nitrogen fixation to future terrestrial net land carbon accumulation under warming condition at centennial scale. *Journal of Cleaner Production*, **2018**, 202, 1158-1166	10.3	6

44	Recent leveling off of vegetation greenness and primary production reveals the increasing soil water limitations on the greening Earth. *Science Bulletin*, **2021**, 66, 1462-1471	10.6	6
43	Growth and water use of wheat under present and future levels of CO2. *J Agricultural Meteorology*, **1993**, 48, 807-810	1.1	5
42	Oscillatory behavior of two nonlinear microbial models of soil carbon decomposition		5
41	Global and regional coupled climate sensitivity to the parameterization of rainfall interception. *Climate Dynamics*, **2011**, 37, 171-186	4.2	4
40	Climate and food supply. *Nature*, **1994**, 371, 25-25	50.4	4
39	The impact of changing the land surface scheme in ACCESS(v1.0/1.1) on the surface climatology. *Geoscientific Model Development*, **2016**, 9, 2771-2791	6.3	4
38	Comparing machine learning-derived global estimates of soil respiration and its components with those from terrestrial ecosystem models. *Environmental Research Letters*, **2021**, 16, 054048	6.2	4
37	Evaluating the simulated mean soil carbon transit times by Earth system models using observations. *Biogeosciences*, **2019**, 16, 917-926	4.6	3
36	Coupling a terrestrial biogeochemical model to the common land model. *Advances in Atmospheric Sciences*, **2011**, 28, 1129-1142	2.9	3
35	A comparison of two algorithms for estimating carbon dioxide emissions after forest clearing. *Environmental Modelling and Software*, **1997**, 12, 187-195	5.2	3
34	Global patterns and drivers of soil total phosphorus concentration. *Earth System Science Data*, **2021**, 13, 5831-5846	10.5	3
33	Tropical tall forests are more sensitive and vulnerable to drought than short forests. *Global Change Biology*, **2021**, 28, 1583	11.4	3
32	Implementation of an optimal stomatal conductance model in the Australian Community Climate Earth Systems Simulator (ACCESS1.3b)		3
31	Modelling evapotranspiration during precipitation deficits: identifying critical processes in a land surface model		3
30	Microbial Activity and Root Carbon Inputs Are More Important than Soil Carbon Diffusion in Simulating Soil Carbon Profiles. *Journal of Geophysical Research G: Biogeosciences*, **2021**, 126, e2020JG006205	3.7	3
29	New Forest Aboveground Biomass Maps of China Integrating Multiple Datasets. *Remote Sensing*, **2021**, 13, 2892	5	3
28	Post-planting performance, yield, and ginsenoside content of Panax ginseng in relation to initial seedling size. *Industrial Crops and Products*, **2018**, 125, 24-32	5.9	3
27	Aerodynamic resistance and Bowen ratio explain the biophysical effects of forest cover on understory air and soil temperatures at the global scale. *Agricultural and Forest Meteorology*, **2021**, 308-309, 108615	5.8	3

26	Effects of 14-year continuous nitrogen addition on soil arylsulfatase and phosphodiesterase activities in a mature tropical forest. *Global Ecology and Conservation*, **2020**, 22, e00934	2.8	2
25	Greenhouse Gas Concentration and Volcanic Eruptions Controlled the Variability of Terrestrial Carbon Uptake Over the Last Millennium. *Journal of Advances in Modeling Earth Systems*, **2019**, 11, 1715-1734	7.1	2
24	Correcting the Response of Maximum Leaf Photosynthetic Rate to Tempera-tures in Crop Models. *Acta Agronomica Sinica(China)*, **2018**, 44, 750	1.4	2
23	Spatial variations in terrestrial net ecosystem productivity and its local indicators. *Biogeosciences*, **2020**, 17, 6237-6246	4.6	2
22	Responses of two nonlinear microbial models to warming or increased carbon input		2
21	Scaling the estimate of maximum canopy conductance from patch to region and comparison of aircraft measurements. **2004**, 175-188		2
20	Antagonistic and additive interactions dominate the responses of belowground carbon-cycling processes to nitrogen and phosphorus additions. *Soil Biology and Biochemistry*, **2021**, 156, 108216	7.5	2
19	Tighten the Bolts and Nuts on GPP Estimations from Sites to the Globe: An Assessment of Remote Sensing Based LUE Models and Supporting Data Fields. *Remote Sensing*, **2021**, 13, 168	5	2
18	Global patterns and drivers of soil total phosphorus concentration		2
17	Mycorrhizal fungi alleviate acidification-induced phosphorus limitation: Evidence from a decade-long field experiment of simulated acid deposition in a tropical forest in south China.. *Global Change Biology*, **2022**,	11.4	2
16	A test of an optimal stomatal conductance scheme within the CABLE Land Surface Model **2014**,		1
15	Hydrologic connectivity drives extremes and high variability in vegetation productivity across Australian arid and semi-arid ecosystems. *Remote Sensing of Environment*, **2022**, 272, 112937	13.2	1
14	The impact of nitrogen and phosphorous limitation on the estimated terrestrial carbon balance and warming of land use change over the last 156 yr		1
13	The carbon cycle in the Australian Community Climate and Earth System Simulator (ACCESS-ESM1) –Part 1: Model description and pre-industrial simulation		1
12	A small climate-amplifying effect of climate-carbon cycle feedback. *Nature Communications*, **2021**, 12, 2952	17.4	1
11	Land carbon-concentration and carbon-climate feedbacks are significantly reduced by nitrogen and phosphorus limitation. *Environmental Research Letters*, **2021**, 16, 074043	6.2	1
10	The Dependence of Ecosystem Water Use Partitioning on Vegetation Productivity at the Inter-Annual Time Scale. *Journal of Geophysical Research D: Atmospheres*, **2021**, 126, e2020JD033756	4.4	1
9	Bedrock Weathering Controls on Terrestrial Carbon-Nitrogen-Climate Interactions. *Global Biogeochemical Cycles*, **2021**, 35, e2020GB006933	5.9	1

List of Publications

8	Diagnosing the impacts of climate extremes on the interannual variations of carbon fluxes of a subtropical evergreen mixed forest. *Agricultural and Forest Meteorology*, **2021**, 307, 108507	5.8	1
7	Assessing the response of soil carbon in Australia to changing inputs and climate using a consistent modelling framework. *Biogeosciences*, **2021**, 18, 5185-5202	4.6	1
6	Nonlinear interactions of land carbon cycle feedbacks in Earth System Models. *Global Change Biology*, **2022**, 28, 296-306	11.4	0
5	Land surface models significantly underestimate the impact of land-use changes on global evapotranspiration. *Environmental Research Letters*, **2021**, 16, 124047	6.2	0
4	Modelling of land nutrient cycles: recent progress and future development. *Faculty Reviews*, **2021**, 10, 53	1.2	0
3	Contribution of Litter Layer to Greenhouse Gas Fluxes between Atmosphere and Soil Varies with Forest Succession. *Forests*, **2022**, 13, 544	2.8	0
2	Global soil organic carbon changes and economic revenues with biochar application. *GCB Bioenergy*, **2022**, 14, 364-377	5.6	0
1	Issues in Modelling Plant Ecosystem Responses to Elevated CO2: Interactions with Soil Nitrogen165-186		