

Ying-Ping Wang

List of Publications by Year in Descending Order

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Version: 2024-04-10

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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.

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	Hydrologic connectivity drives extremes and high variability in vegetation productivity across Australian arid and semi-arid ecosystems. <i>Remote Sensing of Environment</i> , 2022 , 272, 112937	13.2	1
204	Nonlinear interactions of land carbon cycle feedbacks in Earth System Models. <i>Global Change Biology</i> , 2022 , 28, 296-306	11.4	0
203	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.. <i>Global Change Biology</i> , 2022 ,	11.4	2
202	Contribution of Litter Layer to Greenhouse Gas Fluxes between Atmosphere and Soil Varies with Forest Succession. <i>Forests</i> , 2022 , 13, 544	2.8	0
201	Global soil organic carbon changes and economic revenues with biochar application. <i>GCB Bioenergy</i> , 2022 , 14, 364-377	5.6	0
200	Global patterns and drivers of soil total phosphorus concentration. <i>Earth System Science Data</i> , 2021 , 13, 5831-5846	10.5	3
199	Tropical tall forests are more sensitive and vulnerable to drought than short forests. <i>Global Change Biology</i> , 2021 , 28, 1583	11.4	3
198	Land surface models significantly underestimate the impact of land-use changes on global evapotranspiration. <i>Environmental Research Letters</i> , 2021 , 16, 124047	6.2	0
197	Microbial Activity and Root Carbon Inputs Are More Important than Soil Carbon Diffusion in Simulating Soil Carbon Profiles. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2021 , 126, e2020JG003205	3.7	3
196	Antagonistic and additive interactions dominate the responses of belowground carbon-cycling processes to nitrogen and phosphorus additions. <i>Soil Biology and Biochemistry</i> , 2021 , 156, 108216	7.5	2
195	A small climate-amplifying effect of climate-carbon cycle feedback. <i>Nature Communications</i> , 2021 , 12, 2952	17.4	1
194	Comparing machine learning-derived global estimates of soil respiration and its components with those from terrestrial ecosystem models. <i>Environmental Research Letters</i> , 2021 , 16, 054048	6.2	4
193	Modelling of land nutrient cycles: recent progress and future development. <i>Faculty Reviews</i> , 2021 , 10, 53	1.2	0
192	Land carbon-concentration and carbon-climate feedbacks are significantly reduced by nitrogen and phosphorus limitation. <i>Environmental Research Letters</i> , 2021 , 16, 074043	6.2	1
191	New Forest Aboveground Biomass Maps of China Integrating Multiple Datasets. <i>Remote Sensing</i> , 2021 , 13, 2892	5	3
190	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. <i>Remote Sensing</i> , 2021 , 13, 168	5	2
189	Recent leveling off of vegetation greenness and primary production reveals the increasing soil water limitations on the greening Earth. <i>Science Bulletin</i> , 2021 , 66, 1462-1471	10.6	6

188	The Dependence of Ecosystem Water Use Partitioning on Vegetation Productivity at the Inter-Annual Time Scale. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033756	4.4	1
187	Bedrock Weathering Controls on Terrestrial Carbon-Nitrogen-Climate Interactions. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2020GB006933	5.9	1
186	Diagnosing the impacts of climate extremes on the interannual variations of carbon fluxes of a subtropical evergreen mixed forest. <i>Agricultural and Forest Meteorology</i> , 2021 , 307, 108507	5.8	1
185	Assessing the response of soil carbon in Australia to changing inputs and climate using a consistent modelling framework. <i>Biogeosciences</i> , 2021 , 18, 5185-5202	4.6	1
184	Aerodynamic resistance and Bowen ratio explain the biophysical effects of forest cover on understory air and soil temperatures at the global scale. <i>Agricultural and Forest Meteorology</i> , 2021 , 308-309, 108615	5.8	3
183	Rainfall manipulation experiments as simulated by terrestrial biosphere models: Where do we stand?. <i>Global Change Biology</i> , 2020 , 26, 3336-3355	11.4	30
182	Effects of 14-year continuous nitrogen addition on soil arylsulfatase and phosphodiesterase activities in a mature tropical forest. <i>Global Ecology and Conservation</i> , 2020 , 22, e00934	2.8	2
181	Microbial dynamics and soil physicochemical properties explain large-scale variations in soil organic carbon. <i>Global Change Biology</i> , 2020 , 26, 2668	11.4	24
180	Spatial variations in terrestrial net ecosystem productivity and its local indicators. <i>Biogeosciences</i> , 2020 , 17, 6237-6246	4.6	2
179	The Australian Earth System Model: ACCESS-ESM1.5. <i>Journal of Southern Hemisphere Earth Systems Science</i> , 2020 , 70, 193	2.1	60
178	Global Carbon Sequestration Is Highly Sensitive to Model-Based Formulations of Nitrogen Fixation. <i>Global Biogeochemical Cycles</i> , 2020 , 34, e2019GB006296	5.9	11
177	Divergent responses of soil organic carbon accumulation to 14 years of nitrogen addition in two typical subtropical forests. <i>Science of the Total Environment</i> , 2020 , 707, 136104	10.2	7
176	Growing-season temperature and precipitation are independent drivers of global variation in xylem hydraulic conductivity. <i>Global Change Biology</i> , 2020 , 26, 1833-1841	11.4	15
175	The response of soil respiration to precipitation change is asymmetric and differs between grasslands and forests. <i>Global Change Biology</i> , 2020 , 26, 6015-6024	11.4	12
174	Estimating global gross primary productivity using chlorophyll fluorescence and a data assimilation system with the BETHY-SCOPE model. <i>Biogeosciences</i> , 2019 , 16, 3069-3093	4.6	30
173	Quantifying the biophysical effects of forests on local air temperature using a novel three-layered land surface energy balance model. <i>Environment International</i> , 2019 , 132, 105080	12.9	9
172	Global Patterns in Net Primary Production Allocation Regulated by Environmental Conditions and Forest Stand Age: A Model-Data Comparison. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 2039-2059	3.7	15
171	Nitrogen Deposition Maintains a Positive Effect on Terrestrial Carbon Sequestration in the 21st Century Despite Growing Phosphorus Limitation at Regional Scales. <i>Global Biogeochemical Cycles</i> , 2019 , 33, 810-824	5.9	14

170	Interactive effects of nitrogen and phosphorus additions on plant growth vary with ecosystem type. <i>Plant and Soil</i> , 2019 , 440, 523-537	4.2	25
169	Plant Feedback Aggravates Soil Organic Carbon Loss Associated With Wind Erosion in Northwest China. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 825-839	3.7	7
168	Evaluating the simulated mean soil carbon transit times by Earth system models using observations. <i>Biogeosciences</i> , 2019 , 16, 917-926	4.6	3
167	Decadal biomass increment in early secondary succession woody ecosystems is increased by CO ₂ enrichment. <i>Nature Communications</i> , 2019 , 10, 454	17.4	37
166	A meta-analysis of 1,119 manipulative experiments on terrestrial carbon-cycling responses to global change. <i>Nature Ecology and Evolution</i> , 2019 , 3, 1309-1320	12.3	150
165	Increased atmospheric vapor pressure deficit reduces global vegetation growth. <i>Science Advances</i> , 2019 , 5, eaax1396	14.3	270
164	Greenhouse Gas Concentration and Volcanic Eruptions Controlled the Variability of Terrestrial Carbon Uptake Over the Last Millennium. <i>Journal of Advances in Modeling Earth Systems</i> , 2019 , 11, 1715-1734	7.1	2
163	Amazon forest response to CO ₂ fertilization dependent on plant phosphorus acquisition. <i>Nature Geoscience</i> , 2019 , 12, 736-741	18.3	92
162	Soil organic carbon and nutrient losses resulted from spring dust emissions in Northern China. <i>Atmospheric Environment</i> , 2019 , 213, 585-596	5.3	15
161	Soil Organic Carbon Stabilization in the Three Subtropical Forests: Importance of Clay and Metal Oxides. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019 , 124, 2976-2990	3.7	10
160	Joint structural and physiological control on the interannual variation in productivity in a temperate grassland: A data-model comparison. <i>Global Change Biology</i> , 2018 , 24, 2965-2979	11.4	31
159	Dominant regions and drivers of the variability of the global land carbon sink across timescales. <i>Global Change Biology</i> , 2018 , 24, 3954-3968	11.4	16
158	Evaluating Global Land Surface Models in CMIP5: Analysis of Ecosystem Water- and Light-Use Efficiencies and Rainfall Partitioning. <i>Journal of Climate</i> , 2018 , 31, 2995-3008	4.4	12
157	Parameter optimization for carbon and water fluxes in two global land surface models based on surrogate modelling. <i>International Journal of Climatology</i> , 2018 , 38, e1016-e1031	3.5	15
156	Asymmetric responses of primary productivity to altered precipitation simulated by ecosystem models across three long-term grassland sites. <i>Biogeosciences</i> , 2018 , 15, 3421-3437	4.6	36
155	Grasslands may be more reliable carbon sinks than forests in California. <i>Environmental Research Letters</i> , 2018 , 13, 074027	6.2	78
154	Role contribution of biological nitrogen fixation to future terrestrial net land carbon accumulation under warming condition at centennial scale. <i>Journal of Cleaner Production</i> , 2018 , 202, 1158-1166	10.3	6
153	More replenishment than priming loss of soil organic carbon with additional carbon input. <i>Nature Communications</i> , 2018 , 9, 3175	17.4	30

152	Correcting the Response of Maximum Leaf Photosynthetic Rate to Temperatures in Crop Models. <i>Acta Agronomica Sinica(China)</i> , 2018 , 44, 750	1.4	2
151	Carbon cycle confidence and uncertainty: Exploring variation among soil biogeochemical models. <i>Global Change Biology</i> , 2018 , 24, 1563-1579	11.4	79
150	Enhanced peak growth of global vegetation and its key mechanisms. <i>Nature Ecology and Evolution</i> , 2018 , 2, 1897-1905	12.3	97
149	Leaf area index identified as a major source of variability in modeled CO ₂ fertilization. <i>Biogeosciences</i> , 2018 , 15, 6909-6925	4.6	11
148	Ecosystem carbon transit versus turnover times in response to climate warming and rising atmospheric CO ₂ concentration. <i>Biogeosciences</i> , 2018 , 15, 6559-6572	4.6	12
147	GOLUM-CNP v1.0: a data-driven modeling of carbon, nitrogen and phosphorus cycles in major terrestrial biomes. <i>Geoscientific Model Development</i> , 2018 , 11, 3903-3928	6.3	21
146	Non-uniform seasonal warming regulates vegetation greening and atmospheric CO ₂ amplification over northern lands. <i>Environmental Research Letters</i> , 2018 , 13, 124008	6.2	8
145	Using research networks to create the comprehensive datasets needed to assess nutrient availability as a key determinant of terrestrial carbon cycling. <i>Environmental Research Letters</i> , 2018 , 13, 125006	6.2	21
144	Soil organic matter is important for acid buffering and reducing aluminum leaching from acidic forest soils. <i>Chemical Geology</i> , 2018 , 501, 86-94	4.2	37
143	Post-planting performance, yield, and ginsenoside content of <i>Panax ginseng</i> in relation to initial seedling size. <i>Industrial Crops and Products</i> , 2018 , 125, 24-32	5.9	3
142	Challenging terrestrial biosphere models with data from the long-term multifactor Prairie Heating and CO ₂ Enrichment experiment. <i>Global Change Biology</i> , 2017 , 23, 3623-3645	11.4	31
141	Compensatory water effects link yearly global land CO ₂ sink changes to temperature. <i>Nature</i> , 2017 , 541, 516-520	50.4	341
140	Adaptive Carbon Allocation by Plants Enhances the Terrestrial Carbon Sink. <i>Scientific Reports</i> , 2017 , 7, 3341	4.9	34
139	Climate mitigation from vegetation biophysical feedbacks during the past three decades. <i>Nature Climate Change</i> , 2017 , 7, 432-436	21.4	181
138	Improving the ability of the photochemical reflectance index to track canopy light use efficiency through differentiating sunlit and shaded leaves. <i>Remote Sensing of Environment</i> , 2017 , 194, 1-15	13.2	31
137	Transient dynamics of terrestrial carbon storage: mathematical foundation and its applications. <i>Biogeosciences</i> , 2017 , 14, 145-161	4.6	61
136	Challenges and opportunities in land surface modelling of savanna ecosystems. <i>Biogeosciences</i> , 2017 , 14, 4711-4732	4.6	32
135	The carbon cycle in the Australian Community Climate and Earth System Simulator (ACCESS-ESM1) [Part 1: Model description and pre-industrial simulation. <i>Geoscientific Model Development</i> , 2017 , 10, 2567-2590	6.3	48

134	Responses of LAI to rainfall explain contrasting sensitivities to carbon uptake between forest and non-forest ecosystems in Australia. <i>Scientific Reports</i> , 2017 , 7, 11720	4.9	9
133	Recent increases in terrestrial carbon uptake at little cost to the water cycle. <i>Nature Communications</i> , 2017 , 8, 110	17.4	103
132	Incorporation of plant traits in a land surface model helps explain the global biogeographical distribution of major forest functional types. <i>Global Ecology and Biogeography</i> , 2017 , 26, 304-317	6.1	21
131	Quantifying the impacts of vegetation changes on catchment storage-discharge dynamics using paired-catchment data. <i>Water Resources Research</i> , 2017 , 53, 5963-5979	5.4	24
130	Quantification and attribution of errors in the simulated annual gross primary production and latent heat fluxes by two global land surface models. <i>Journal of Advances in Modeling Earth Systems</i> , 2016 , 8, 1270-1288	7.1	14
129	Linear and nonlinear effects of dominant drivers on the trends in global and regional land carbon uptake: 1959 to 2013. <i>Geophysical Research Letters</i> , 2016 , 43, 1607-1614	4.9	13
128	Impact of the representation of stomatal conductance on model projections of heatwave intensity. <i>Scientific Reports</i> , 2016 , 6, 23418	4.9	53
127	Using models to guide field experiments: a priori predictions for the CO ₂ response of a nutrient- and water-limited native Eucalypt woodland. <i>Global Change Biology</i> , 2016 , 22, 2834-51	11.4	60
126	Transit times and mean ages for nonautonomous and autonomous compartmental systems. <i>Journal of Mathematical Biology</i> , 2016 , 73, 1379-1398	2	26
125	Responses of soil buffering capacity to acid treatment in three typical subtropical forests. <i>Science of the Total Environment</i> , 2016 , 563-564, 1068-77	10.2	22
124	Toward more realistic projections of soil carbon dynamics by Earth system models. <i>Global Biogeochemical Cycles</i> , 2016 , 30, 40-56	5.9	251
123	The impact of changing the land surface scheme in ACCESS(v1.0/1.1) on the surface climatology. <i>Geoscientific Model Development</i> , 2016 , 9, 2771-2791	6.3	4
122	Responses of two nonlinear microbial models to warming and increased carbon input. <i>Biogeosciences</i> , 2016 , 13, 887-902	4.6	35
121	A model inter-comparison study to examine limiting factors in modelling Australian tropical savannas. <i>Biogeosciences</i> , 2016 , 13, 3245-3265	4.6	25
120	Divergent predictions of carbon storage between two global land models: attribution of the causes through traceability analysis. <i>Earth System Dynamics</i> , 2016 , 7, 649-658	4.8	28
119	Modelling evapotranspiration during precipitation deficits: identifying critical processes in a land surface model. <i>Hydrology and Earth System Sciences</i> , 2016 , 20, 2403-2419	5.5	23
118	Global patterns and climate drivers of water-use efficiency in terrestrial ecosystems deduced from satellite-based datasets and carbon cycle models. <i>Global Ecology and Biogeography</i> , 2016 , 25, 311-323	6.1	63
117	Seasonal responses of terrestrial ecosystem water-use efficiency to climate change. <i>Global Change Biology</i> , 2016 , 22, 2165-77	11.4	57

116	Multi-decadal trends in global terrestrial evapotranspiration and its components. <i>Scientific Reports</i> , 2016 , 6, 19124	4.9	253
115	Global patterns and substrate-based mechanisms of the terrestrial nitrogen cycle. <i>Ecology Letters</i> , 2016 , 19, 697-709	10	128
114	Greening of the Earth and its drivers. <i>Nature Climate Change</i> , 2016 , 6, 791-795	21.4	1036
113	Change in terrestrial ecosystem water-use efficiency over the last three decades. <i>Global Change Biology</i> , 2015 , 21, 2366-78	11.4	144
112	Global patterns of plant root colonization intensity by mycorrhizal fungi explained by climate and soil chemistry. <i>Global Ecology and Biogeography</i> , 2015 , 24, 371-382	6.1	126
111	Down-regulation of tissue N:P ratios in terrestrial plants by elevated CO ₂ . <i>Ecology</i> , 2015 , 96, 3354-62	4.6	46
110	Detection and attribution of vegetation greening trend in China over the last 30 years. <i>Global Change Biology</i> , 2015 , 21, 1601-9	11.4	373
109	Predicting long-term carbon sequestration in response to CO ₂ enrichment: How and why do current ecosystem models differ?. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 476-495	5.9	77
108	Explicitly representing soil microbial processes in Earth system models. <i>Global Biogeochemical Cycles</i> , 2015 , 29, 1782-1800	5.9	197
107	Reliable, robust and realistic: the three Rs of next-generation land-surface modelling. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 5987-6005	6.8	118
106	Do land surface models need to include differential plant species responses to drought? Examining model predictions across a mesic-xeric gradient in Europe. <i>Biogeosciences</i> , 2015 , 12, 7503-7518	4.6	52
105	Implementation of an optimal stomatal conductance scheme in the Australian Community Climate Earth Systems Simulator (ACCESS1.3b). <i>Geoscientific Model Development</i> , 2015 , 8, 3877-3889	6.3	40
104	Using ecosystem experiments to improve vegetation models. <i>Nature Climate Change</i> , 2015 , 5, 528-534	21.4	191
103	Carbon cycle. The dominant role of semi-arid ecosystems in the trend and variability of the land CO ₂ sink. <i>Science</i> , 2015 , 348, 895-9	33.3	684
102	A test of an optimal stomatal conductance scheme within the CABLE land surface model. <i>Geoscientific Model Development</i> , 2015 , 8, 431-452	6.3	108
101	Nitrogen and phosphorous limitation reduces the effects of land use change on land carbon uptake or emission. <i>Environmental Research Letters</i> , 2015 , 10, 014001	6.2	18
100	Global carbon budget 2014. <i>Earth System Science Data</i> , 2015 , 7, 47-85	10.5	367
99	Impacts of elevated CO ₂ , climate change and their interactions on water budgets in four different catchments in Australia. <i>Journal of Hydrology</i> , 2014 , 519, 1350-1361	6	27

98	Comprehensive ecosystem model-data synthesis using multiple data sets at two temperate forest free-air CO ₂ enrichment experiments: Model performance at ambient CO ₂ concentration. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 937-964	3.7	83
97	Oscillatory behavior of two nonlinear microbial models of soil carbon decomposition. <i>Biogeosciences</i> , 2014 , 11, 1817-1831	4.6	44
96	Biogeographic variation in evergreen conifer needle longevity and impacts on boreal forest carbon cycle projections. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 13703-8	11.5	85
95	Quantifying the effects of elevated CO ₂ on water budgets by combining FACE data with an ecohydrological model. <i>Ecohydrology</i> , 2014 , 7, 1574-1588	2.5	9
94	A test of an optimal stomatal conductance scheme within the CABLE Land Surface Model 2014 ,		1
93	Nitrogen and phosphorous limitations significantly reduce future allowable CO ₂ emissions. <i>Geophysical Research Letters</i> , 2014 , 41, 632-637	4.9	56
92	Where does the carbon go? A model-data intercomparison of vegetation carbon allocation and turnover processes at two temperate forest free-air CO ₂ enrichment sites. <i>New Phytologist</i> , 2014 , 203, 883-99	9.8	194
91	Evaluation of 11 terrestrial carbon-nitrogen cycle models against observations from two temperate Free-Air CO ₂ Enrichment studies. <i>New Phytologist</i> , 2014 , 202, 803-822	9.8	300
90	Modeling permafrost thaw and ecosystem carbon cycle under annual and seasonal warming at an Arctic tundra site in Alaska. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 1129-1146	3.7	17
89	A novel silvicultural model for increasing biopolymer production from <i>Eucommia ulmoides</i> Oliver trees. <i>Industrial Crops and Products</i> , 2013 , 42, 216-222	5.9	23
88	Increasing phosphorus limitation along three successional forests in southern China. <i>Plant and Soil</i> , 2013 , 364, 181-191	4.2	95
87	The response of ginseng grown on farmland to foliar-applied iron, zinc, manganese and copper. <i>Industrial Crops and Products</i> , 2013 , 45, 388-394	5.9	17
86	An efficient method for global parameter sensitivity analysis and its applications to the Australian community land surface model (CABLE). <i>Agricultural and Forest Meteorology</i> , 2013 , 182-183, 292-303	5.8	36
85	Forest water use and water use efficiency at elevated CO ₂ : a model-data intercomparison at two contrasting temperate forest FACE sites. <i>Global Change Biology</i> , 2013 , 19, 1759-79	11.4	271
84	Evaluating Surface Water Cycle Simulated by the Australian Community Land Surface Model (CABLE) across Different Spatial and Temporal Domains. <i>Journal of Hydrometeorology</i> , 2013 , 14, 1119-1138	3.7	29
83	The impact of nitrogen and phosphorous limitation on the estimated terrestrial carbon balance and warming of land use change over the last 156 yr. <i>Earth System Dynamics</i> , 2013 , 4, 333-345	4.8	30
82	Traceable components of terrestrial carbon storage capacity in biogeochemical models. <i>Global Change Biology</i> , 2013 , 19, 2104-16	11.4	113
81	Examining soil carbon uncertainty in a global model: response of microbial decomposition to temperature, moisture and nutrient limitation. <i>Biogeosciences</i> , 2013 , 10, 7095-7108	4.6	54

80	Sensitivity of net ecosystem exchange and heterotrophic respiration to parameterization uncertainty. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 1640-1651	4.4	21
79	The land surface model component of ACCESS: description and impact on the simulated surface climatology. <i>Australian Meteorological Magazine</i> , 2013 , 63, 65-82		94
78	Isotopic identification of nitrogen hotspots across natural terrestrial ecosystems. <i>Biogeosciences</i> , 2012 , 9, 3287-3304	4.6	58
77	Improving the responses of the Australian community land surface model (CABLE) to seasonal drought. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		67
76	Benchmarking global land surface models against the observed mean annual runoff from 150 large basins. <i>Journal of Hydrology</i> , 2012 , 470-471, 269-279	6	50
75	A framework for benchmarking land models. <i>Biogeosciences</i> , 2012 , 9, 3857-3874	4.6	238
74	A semi-analytical solution to accelerate spin-up of a coupled carbon and nitrogen land model to steady state. <i>Geoscientific Model Development</i> , 2012 , 5, 1259-1271	6.3	81
73	Correlations among leaf traits provide a significant constraint on the estimate of global gross primary production. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	47
72	Diagnosing errors in a land surface model (CABLE) in the time and frequency domains. <i>Journal of Geophysical Research</i> , 2011 , 116,		141
71	Limitations of nitrogen and phosphorous on the terrestrial carbon uptake in the 20th century. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	63
70	Carbon uptake by karsts in the Houzhai Basin, southwest China. <i>Journal of Geophysical Research</i> , 2011 , 116,		22
69	Importance of background climate in determining impact of land-cover change on regional climate. <i>Nature Climate Change</i> , 2011 , 1, 472-475	21.4	133
68	Harmonization of land-use scenarios for the period 1500–100: 600 years of global gridded annual land-use transitions, wood harvest, and resulting secondary lands. <i>Climatic Change</i> , 2011 , 109, 117-161	4.5	883
67	Different patterns of ecosystem carbon accumulation between a young and an old-growth subtropical forest in Southern China. <i>Plant Ecology</i> , 2011 , 212, 1385-1395	1.7	35
66	Global and regional coupled climate sensitivity to the parameterization of rainfall interception. <i>Climate Dynamics</i> , 2011 , 37, 171-186	4.2	4
65	Coupling a terrestrial biogeochemical model to the common land model. <i>Advances in Atmospheric Sciences</i> , 2011 , 28, 1129-1142	2.9	3
64	The CSIRO Mk3L climate system model v1.0 coupled to the CABLE land surface scheme v1.4b: evaluation of the control climatology. <i>Geoscientific Model Development</i> , 2011 , 4, 1115-1131	6.3	16
63	Soil-atmosphere exchange of CH ₄ , CO, N ₂ O and NO _x and the effects of land-use change in the semiarid Mallee system in Southeastern Australia. <i>Global Change Biology</i> , 2010 , 16, 2407	11.4	17

62	A global model of carbon, nitrogen and phosphorus cycles for the terrestrial biosphere. <i>Biogeosciences</i> , 2010 , 7, 2261-2282	4.6	442
61	Can the stomatal response to higher atmospheric carbon dioxide explain the unusual temperatures during the 2002 Murray-Darling Basin drought?. <i>Journal of Geophysical Research</i> , 2010 , 115,		11
60	Nitrous oxide emissions from a legume pasture and the influences of liming and urine addition. <i>Agriculture, Ecosystems and Environment</i> , 2010 , 136, 262-272	5.7	37
59	Using indirect methods to constrain symbiotic nitrogen fixation rates: a case study from an Amazonian rain forest. <i>Biogeochemistry</i> , 2010 , 99, 1-13	3.8	37
58	Land and ocean nutrient and carbon cycle interactions. <i>Current Opinion in Environmental Sustainability</i> , 2010 , 2, 258-263	7.2	18
57	Improving land surface models with FLUXNET data. <i>Biogeosciences</i> , 2009 , 6, 1341-1359	4.6	260
56	A review of applications of model data fusion to studies of terrestrial carbon fluxes at different scales. <i>Agricultural and Forest Meteorology</i> , 2009 , 149, 1829-1842	5.8	123
55	Nitrogen constraints on terrestrial carbon uptake: Implications for the global carbon-climate feedback. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	131
54	A unifying framework for dinitrogen fixation in the terrestrial biosphere. <i>Nature</i> , 2008 , 454, 327-30	50.4	535
53	Soil-atmosphere trace gas exchange in semiarid and arid zones. <i>Journal of Environmental Quality</i> , 2008 , 37, 599-607	3.4	65
52	A model of biogeochemical cycles of carbon, nitrogen, and phosphorus including symbiotic nitrogen fixation and phosphatase production. <i>Global Biogeochemical Cycles</i> , 2007 , 21,	5.9	163
51	OptIC project: An intercomparison of optimization techniques for parameter estimation in terrestrial biogeochemical models. <i>Journal of Geophysical Research</i> , 2007 , 112,		74
50	Estimating parameters in a land-surface model by applying nonlinear inversion to eddy covariance flux measurements from eight FLUXNET sites. <i>Global Change Biology</i> , 2007 , 13, 652-670	11.4	136
49	Systematic Bias in Land Surface Models. <i>Journal of Hydrometeorology</i> , 2007 , 8, 989-1001	3.7	60
48	Diffusion of ¹⁵ N-labelled N ₂ O into soil columns: a promising method to examine the fate of N ₂ O in subsoils. <i>Soil Biology and Biochemistry</i> , 2006 , 38, 1462-1468	7.5	49
47	A comparative analysis of simulated and observed photosynthetic CO ₂ uptake in two coniferous forest canopies. <i>Tree Physiology</i> , 2006 , 26, 845-64	4.2	36
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