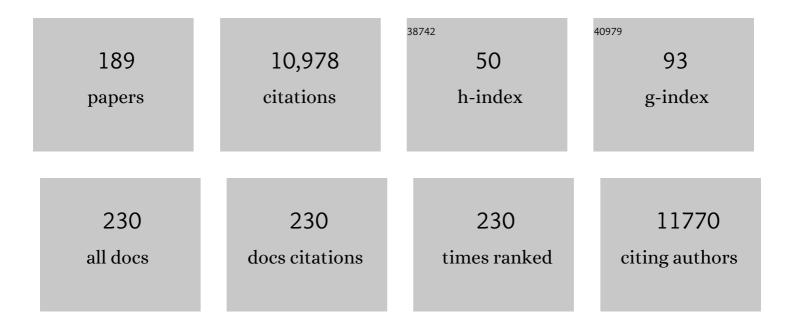
List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/4567686/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	An analysis of the carbon balance of the Arctic Basin from 1997 to 2006. Tellus, Series B: Chemical and Physical Meteorology, 2022, 62, 455.	1.6	116
2	Carbon cycling in extratropical terrestrial ecosystems of the Northern Hemisphere during the 20th century: a modeling analysis of the influences of soil thermal dynamics. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 751.	1.6	123
3	Modelling temperature acclimation effects on the carbon dynamics of forest ecosystems in the conterminous United States. Tellus, Series B: Chemical and Physical Meteorology, 2022, 65, 19156.	1.6	16
4	Evaluating aerosol direct radiative effects on global terrestrial ecosystem carbon dynamics from 2003 to 2010. Tellus, Series B: Chemical and Physical Meteorology, 2022, 66, 21808.	1.6	43
5	Regional trends and drivers of the global methane budget. Global Change Biology, 2022, 28, 182-200.	9.5	56
6	Anthropogenic controls over soil organic carbon distribution from the cultivated lands in Northeast China. Catena, 2022, 210, 105897.	5.0	15
7	Permafrost Degradation Diminishes Terrestrial Ecosystem Carbon Sequestration Capacity on the Qinghaiâ€Tibetan Plateau. Global Biogeochemical Cycles, 2022, 36, .	4.9	11
8	Evaluating the Variability of Surface Soil Moisture Simulated Within CMIP5 Using SMAP Data. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	2
9	Warming and Increased Respiration Have Transformed an Alpine Steppe Ecosystem on the Tibetan Plateau From a Carbon Dioxide Sink Into a Source. Journal of Geophysical Research C: Biogeosciences, 2022, 127, .	3.0	5
10	A Review on Carbon Source and Sink in Arable Land Ecosystems. Land, 2022, 11, 580.	2.9	15
11	Improved global wetland carbon isotopic signatures support post-2006 microbial methane emission increase. Communications Earth & Environment, 2022, 3, .	6.8	11
12	Evapotranspiration partitioning and water productivity of rainfed maize under contrasting mulching conditions in Northwest China. Agricultural Water Management, 2021, 243, 106473.	5.6	49
13	Investigating the spatio-temporal variability of soil organic carbon stocks in different ecosystems of China. Science of the Total Environment, 2021, 758, 143644.	8.0	36
14	Validation and Sensitivity Analysis of a 1â€D Lake Model Across Global Lakes. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033417.	3.3	15
15	Estimation of rainfed maize transpiration under various mulching methods using modified Jarvis-Stewart model and hybrid support vector machine model with whale optimization algorithm. Agricultural Water Management, 2021, 249, 106799.	5.6	25
16	North American boreal forests are a large carbon source due to wildfires from 1986 to 2016. Scientific Reports, 2021, 11, 7723.	3.3	19
17	Interactive effects of mulching practice and nitrogen rate on grain yield, water productivity, fertilizer use efficiency and greenhouse gas emissions of rainfed summer maize in northwest China. Agricultural Water Management, 2021, 248, 106778.	5.6	65
18	Wheat straw mulching with nitrification inhibitor application improves grain yield and economic benefit while mitigating gaseous emissions from a dryland maize field in northwest China. Field Crops Research, 2021, 265, 108125.	5.1	40

#	Article	IF	CITATIONS
19	Improved Constraints on Global Methane Emissions and Sinks Using <i>δ</i> ¹³ Câ€CH ₄ . Global Biogeochemical Cycles, 2021, 35, e2021GB007000.	4.9	50
20	Intercomparison of Thermal Regime Algorithms in 1â€Ð Lake Models. Water Resources Research, 2021, 57, e2020WR028776.	4.2	2
21	Spatial state distribution and phase transition of non-uniform water in soils: Implications for engineering and environmental sciences. Advances in Colloid and Interface Science, 2021, 294, 102465.	14.7	12
22	Soil water use sources and patterns in shrub encroachment in semiarid grasslands of Inner Mongolia. Agricultural and Forest Meteorology, 2021, 308-309, 108579.	4.8	5
23	Prediction Potential of Remote Sensing-Related Variables in the Topsoil Organic Carbon Density of Liaohekou Coastal Wetlands, Northeast China. Remote Sensing, 2021, 13, 4106.	4.0	1
24	Leaf 13 C data constrain the uncertainty of the carbon dynamics of temperate forest ecosystems. Ecosphere, 2021, 12, .	2.2	1
25	Quantifying the role of moss in terrestrial ecosystem carbon dynamics in northern high latitudes. Biogeosciences, 2021, 18, 6245-6269.	3.3	5
26	Optimization of environmental variable functions of GPP quantitative model based on SCE-UA and minimum loss screening method. Ecological Informatics, 2021, 66, 101479.	5.2	3
27	Evapotranspiration in North America: implications for water resources in a changing climate. Mitigation and Adaptation Strategies for Global Change, 2020, 25, 205-220.	2.1	3
28	Applying statistical methods to map soil organic carbon of agricultural lands in northeastern coastal areas of China. Archives of Agronomy and Soil Science, 2020, 66, 532-544.	2.6	13
29	Adaptation of paddy rice in China to climate change: The effects of shifting sowing date on yield and irrigation water requirement. Agricultural Water Management, 2020, 228, 105890.	5.6	79
30	Modeling Holocene Peatland Carbon Accumulation in North America. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005230.	3.0	5
31	Longâ€Term Elimination of Grazing Reverses the Effects of Shrub Encroachment on Soil and Vegetation on the Ordos Plateau. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005439.	3.0	5
32	Multimodel simulation of vertical gas transfer in a temperate lake. Hydrology and Earth System Sciences, 2020, 24, 697-715.	4.9	20
33	Impacts of urbanization on soil organic carbon stocks in the northeast coastal agricultural areas of China. Science of the Total Environment, 2020, 721, 137814.	8.0	29
34	Rising methane emissions from boreal lakes due to increasing ice-free days. Environmental Research Letters, 2020, 15, 064008.	5.2	25
35	Reduced net methane emissions due to microbial methane oxidation in a warmer Arctic. Nature Climate Change, 2020, 10, 317-321.	18.8	70
36	Predicting Soil Organic Carbon and Soil Nitrogen Stocks in Topsoil of Forest Ecosystems in Northeastern China Using Remote Sensing Data. Remote Sensing, 2020, 12, 1115.	4.0	27

#	Article	IF	CITATIONS
37	Uncertainty Quantification of Global Net Methane Emissions From Terrestrial Ecosystems Using a Mechanistically Based Biogeochemistry Model. Journal of Geophysical Research G: Biogeosciences, 2020, 125, e2019JG005428.	3.0	15
38	Multispectral Remote Sensing Data Are Effective and Robust in Mapping Regional Forest Soil Organic Carbon Stocks in a Northeast Forest Region in China. Remote Sensing, 2020, 12, 393.	4.0	10
39	Modeling biological nitrogen fixation in global natural terrestrial ecosystems. Biogeosciences, 2020, 17, 3643-3657.	3.3	21
40	The Global Methane Budget 2000–2017. Earth System Science Data, 2020, 12, 1561-1623.	9.9	1,199
41	An improved similarity-based approach to predicting and mapping soil organic carbon and soil total nitrogen in a coastal region of northeastern China. PeerJ, 2020, 8, e9126.	2.0	4
42	Spatial-Temporal Changes in Soil Organic Carbon and pH in the Liaoning Province of China: A Modeling Analysis Based on Observational Data. Sustainability, 2019, 11, 3569.	3.2	23
43	Future nitrogen availability and its effect on carbon sequestration in Northern Eurasia. Nature Communications, 2019, 10, 3024.	12.8	49
44	Quantifying global N ₂ O emissions from natural ecosystem soils using trait-based biogeochemistry models. Biogeosciences, 2019, 16, 207-222.	3.3	16
45	Estimating N2O emissions from soils under natural vegetation in China. Plant and Soil, 2019, 434, 271-287.	3.7	13
46	Recent Warming Has Resulted in Smaller Gains in Net Carbon Uptake in Northern High Latitudes. Journal of Climate, 2019, 32, 5849-5863.	3.2	6
47	Dissecting the nonlinear response of maize yield to high temperature stress with modelâ€data integration. Global Change Biology, 2019, 25, 2470-2484.	9.5	56
48	Temporal and Spatial Changes of Soil Organic Carbon Stocks in the Forest Area of Northeastern China. Forests, 2019, 10, 1023.	2.1	13
49	Quantifying Dissolved Organic Carbon Dynamics Using a Threeâ€Dimensional Terrestrial Ecosystem Model at High Spatialâ€Temporal Resolutions. Journal of Advances in Modeling Earth Systems, 2019, 11, 4489-4512.	3.8	10
50	Large loss of CO2 in winter observed across the northern permafrost region. Nature Climate Change, 2019, 9, 852-857.	18.8	225
51	Effects of ridge–furrow mulching on soil CO2 efflux in a maize field in the Chinese Loess Plateau. Agricultural and Forest Meteorology, 2019, 264, 200-212.	4.8	36
52	Quantifying the Effects of Snowpack on Soil Thermal and Carbon Dynamics of the Arctic Terrestrial Ecosystems. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1197-1212.	3.0	7
53	Modeling leaf area index in North America using a processâ€based terrestrial ecosystem model. Ecosphere, 2018, 9, e02046.	2.2	10
54	Dependence of the evolution of carbon dynamics in the northern permafrost region on the trajectory of climate change. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 3882-3887.	7.1	296

#	Article	lF	CITATIONS
55	The role of driving factors in historical and projected carbon dynamics of upland ecosystems in Alaska. Ecological Applications, 2018, 28, 5-27.	3.8	25
56	Biomass and biofuels in China: Toward bioenergy resource potentials and their impacts on the environment. Renewable and Sustainable Energy Reviews, 2018, 82, 2387-2400.	16.4	120
57	Spatial variations of soil organic carbon stocks in a coastal hilly area of China. Geoderma, 2018, 314, 8-19.	5.1	39
58	Technical Note: An efficient method for accelerating the spin-up process for process-based biogeochemistry models. Biogeosciences, 2018, 15, 3967-3973.	3.3	2
59	Potential shift from a carbon sink to a source in Amazonian peatlands under a changing climate. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12407-12412.	7.1	54
60	Microbial decomposition processes and vulnerable arctic soil organic carbon in the 21st century. Biogeosciences, 2018, 15, 5621-5634.	3.3	5
61	The ecology of peace: preparing Colombia for new political and planetary climates. Frontiers in Ecology and the Environment, 2018, 16, 525-531.	4.0	41
62	Consumption of atmospheric methane by the Qinghai–Tibet Plateau alpine steppe ecosystem. Cryosphere, 2018, 12, 2803-2819.	3.9	15
63	The role of environmental driving factors in historical and projected carbon dynamics of wetland ecosystems in Alaska. Ecological Applications, 2018, 28, 1377-1395.	3.8	11
64	Increasing Methane Emissions From Natural Land Ecosystems due to Sea‣evel Rise. Journal of Geophysical Research G: Biogeosciences, 2018, 123, 1756-1768.	3.0	9
65	Assessing historical and projected carbon balance of Alaska: A synthesis of results and policy/management implications. Ecological Applications, 2018, 28, 1396-1412.	3.8	22
66	Tundra landscape heterogeneity, not interannual variability, controls the decadal regional carbon balance in the Western Russian Arctic. Global Change Biology, 2018, 24, 5188-5204.	9.5	45
67	The important but weakening maize yield benefit of grain filling prolongation in the US Midwest. Global Change Biology, 2018, 24, 4718-4730.	9.5	41
68	Global soil consumption of atmospheric carbon monoxide: an analysis using a process-based biogeochemistry model. Atmospheric Chemistry and Physics, 2018, 18, 7913-7931.	4.9	16
69	A Small Temperate Lake in the 21st Century: Dynamics of Water Temperature, Ice Phenology, Dissolved Oxygen, and Chlorophyll <i>a</i> . Water Resources Research, 2018, 54, 4681-4699.	4.2	33
70	Importance of biophysical effects on climate warming mitigation potential of biofuel crops over the conterminous United States. GCB Bioenergy, 2017, 9, 577-590.	5.6	15
71	The combined and separate impacts of climate extremes on the current and future <scp>US</scp> rainfed maize and soybean production under elevated CO ₂ . Global Change Biology, 2017, 23, 2687-2704.	9.5	134
72	Quantifying the Role of Permafrost Distribution in Groundwater and Surface Water Interactions Using a Three-Dimensional Hydrological Model. Arctic, Antarctic, and Alpine Research, 2017, 49, 81-100.	1.1	15

#	Article	IF	CITATIONS
73	Elevated atmospheric CO ₂ negatively impacts photosynthesis through radiative forcing and physiologyâ€mediated climate feedback. Geophysical Research Letters, 2017, 44, 1956-1963.	4.0	31
74	Impacts of land use changes on net ecosystem production in the Taihu Lake Basin of China from 1985 to 2010. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 690-707.	3.0	51
75	Spatio-temporal dynamics of evapotranspiration on the Tibetan Plateau from 2000 to 2010. Environmental Research Letters, 2017, 12, 014011.	5.2	45
76	Crop model- and satellite imagery-based recommendation tool for variable rate N fertilizer application for the US Corn system. Precision Agriculture, 2017, 18, 779-800.	6.0	46
77	A review of and perspectives on global change modeling for Northern Eurasia. Environmental Research Letters, 2017, 12, 083001.	5.2	17
78	Quantifying the Role of Snowmelt in Stream Discharge in an Alaskan Watershed: An Analysis Using a Spatially Distributed Surface Hydrology Model. Journal of Geophysical Research F: Earth Surface, 2017, 122, 2183-2195.	2.8	14
79	Modeling <scp>CO</scp> ₂ emissions from <scp>A</scp> rctic lakes: Model development and siteâ€level study. Journal of Advances in Modeling Earth Systems, 2017, 9, 2190-2213.	3.8	38
80	Mapping stocks of soil organic carbon and soil total nitrogen in Liaoning Province of China. Geoderma, 2017, 305, 250-263.	5.1	122
81	Factors influencing industrial carbon emissions and strategies for carbon mitigation in the Yangtze River Delta of China. Journal of Cleaner Production, 2017, 142, 3607-3616.	9.3	44
82	Modeling longâ€ŧerm changes in tundra carbon balance following wildfire, climate change, and potential nutrient addition. Ecological Applications, 2017, 27, 105-117.	3.8	23
83	Detectability of Arctic methane sources at six sites performing continuous atmospheric measurements. Atmospheric Chemistry and Physics, 2017, 17, 8371-8394.	4.9	20
84	Northern Eurasia Future Initiative (NEFI): facing the challenges and pathways of global change in the twenty-first century. Progress in Earth and Planetary Science, 2017, 4, .	3.0	69
85	Quantifying soil carbon accumulation in Alaskan terrestrial ecosystems during the last 15â€ ⁻ 000 years. Biogeosciences, 2016, 13, 6305-6319.	3.3	5
86	Global patterns and predictors of stem <scp>CO</scp> ₂ efflux in forest ecosystems. Global Change Biology, 2016, 22, 1433-1444.	9.5	61
87	Do maize models capture the impacts of heat and drought stresses on yield? Using algorithm ensembles to identify successful approaches. Global Change Biology, 2016, 22, 3112-3126.	9.5	63
88	Relative importance between biogeochemical and biogeophysical effects in regulating terrestrial ecosystemâ€climate feedback in northern high latitudes. Journal of Geophysical Research D: Atmospheres, 2016, 121, 5736-5748.	3.3	3
89	Importance of soil thermal regime in terrestrial ecosystem carbon dynamics in the circumpolar north. Global and Planetary Change, 2016, 142, 28-40.	3.5	13
90	Direct radiative effects of tropospheric aerosols on changes of global surface soil moisture. Climatic Change, 2016, 136, 175-187.	3.6	9

#	Article	IF	CITATIONS
91	Ecological risk assessment of ecosystem services in the Taihu Lake Basin of China from 1985 to 2020. Science of the Total Environment, 2016, 554-555, 7-16.	8.0	119
92	Toward optimal soil organic carbon sequestration with effects of agricultural management practices and climate change in Tai-Lake paddy soils of China. Geoderma, 2016, 275, 28-39.	5.1	44
93	Temporal variability in the thermal requirements for vegetation phenology on the Tibetan plateau and its implications for carbon dynamics. Climatic Change, 2016, 138, 617-632.	3.6	10
94	Quantifying peat carbon accumulation in Alaska using a processâ€based biogeochemistry model. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 2172-2185.	3.0	8
95	Quantifying spatially and temporally explicit CO 2 fertilization effects on global terrestrial ecosystem carbon dynamics. Ecosphere, 2016, 7, e01391.	2.2	6
96	A largeâ€scale methane model by incorporating the surface water transport. Journal of Geophysical Research G: Biogeosciences, 2016, 121, 1657-1674.	3.0	9
97	Variability in the sensitivity among model simulations of permafrost and carbon dynamics in the permafrost region between 1960 and 2009. Global Biogeochemical Cycles, 2016, 30, 1015-1037.	4.9	116
98	Inverse modeling of pan-Arctic methane emissions at high spatial resolution: what can we learn from assimilating satellite retrievals and using different process-based wetland and lake biogeochemical models?. Atmospheric Chemistry and Physics, 2016, 16, 12649-12666.	4.9	27
99	Focus on the impact of climate change on wetland ecosystems and carbon dynamics. Environmental Research Letters, 2016, 11, 100201.	5.2	27
100	C–N–P interactions control climate driven changes in regional patterns of C storage on the North Slope of Alaska. Landscape Ecology, 2016, 31, 195-213.	4.2	28
101	Evaluating atmospheric CO2 effects on gross primary productivity and net ecosystem exchanges of terrestrial ecosystems in the conterminous United States using the AmeriFlux data and an artificial neural network approach. Agricultural and Forest Meteorology, 2016, 220, 38-49.	4.8	31
102	Uncertainty of organic carbon dynamics in Tai-Lake paddy soils of China depends on the scale of soil maps. Agriculture, Ecosystems and Environment, 2016, 222, 13-22.	5.3	15
103	Quantification of the soil organic carbon balance in the Tai-Lake paddy soils of China. Soil and Tillage Research, 2016, 155, 95-106.	5.6	21
104	Quantifying microbial ecophysiological effects on the carbon fluxes of forest ecosystems over the conterminous United States. Climatic Change, 2015, 133, 695-708.	3.6	2
105	Bioenergy crop productivity and potential climate change mitigation from marginal lands in the United States: An ecosystem modeling perspective. GCB Bioenergy, 2015, 7, 1211-1221.	5.6	37
106	Carbon and nitrogen dynamics in bioenergy ecosystems: 2. Potential greenhouse gas emissions and global warming intensity in the conterminous <scp>U</scp> nited <scp>S</scp> tates. GCB Bioenergy, 2015, 7, 25-39.	5.6	22
107	Modeling methane emissions from arctic lakes: Model development and siteâ€level study. Journal of Advances in Modeling Earth Systems, 2015, 7, 459-483.	3.8	71
108	Methane emissions from panâ€Arctic lakes during the 21st century: An analysis with processâ€based models of lake evolution and biogeochemistry. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2641-2653.	3.0	41

#	Article	IF	CITATIONS
109	Incorporating microbial dormancy dynamics into soil decomposition models to improve quantification of soil carbon dynamics of northern temperate forests. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 2596-2611.	3.0	29
110	Rising methane emissions from northern wetlands associated with sea ice decline. Geophysical Research Letters, 2015, 42, 7214-7222.	4.0	20
111	Net exchanges of methane and carbon dioxide on the Qinghai-Tibetan Plateau from 1979 to 2100. Environmental Research Letters, 2015, 10, 085007.	5.2	44
112	Influence of changes in wetland inundation extent on net fluxes of carbon dioxide and methane in northern high latitudes from 1993 to 2004. Environmental Research Letters, 2015, 10, 095009.	5.2	21
113	Ecosystem biogeochemistry model parameterization: Do more flux data result in a better model in predicting carbon flux?. Ecosphere, 2015, 6, 1-20.	2.2	10
114	Reduction of Global Plant Production due to Droughts from 2001 to 2010: An Analysis with a Process-Based Global Terrestrial Ecosystem Model. Earth Interactions, 2015, 19, 1-21.	1.5	7
115	Evapotranspiration in Northern Eurasia: Impact of forcing uncertainties on terrestrial ecosystem model estimates. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2647-2660.	3.3	26
116	Methane emissions from an alpine wetland on the Tibetan Plateau: Neglected but vital contribution of the nongrowing season. Journal of Geophysical Research G: Biogeosciences, 2015, 120, 1475-1490.	3.0	77
117	WETCHIMP-WSL: intercomparison of wetland methane emissions models over West Siberia. Biogeosciences, 2015, 12, 3321-3349.	3.3	81
118	Agriculture intensifies soil moisture decline in Northern China. Scientific Reports, 2015, 5, 11261.	3.3	65
119	Arctic lakes are continuous methane sources to the atmosphere under warming conditions. Environmental Research Letters, 2015, 10, 054016.	5.2	66
120	The implications of microbial and substrate limitation for the fates of carbon in different organic soil horizon types of boreal forest ecosystems: a mechanistically based model analysis. Biogeosciences, 2014, 11, 4477-4491.	3.3	20
121	Spatial scale-dependent land–atmospheric methane exchanges in the northern high latitudes from 1993 to 2004. Biogeosciences, 2014, 11, 1693-1704.	3.3	22
122	An Efficient Method of Estimating Downward Solar Radiation Based on the MODIS Observations for the Use of Land Surface Modeling. Remote Sensing, 2014, 6, 7136-7157.	4.0	35
123	The impacts of recent permafrost thaw on land–atmosphere greenhouse gas exchange. Environmental Research Letters, 2014, 9, 045005.	5.2	74
124	Soil thermal dynamics of terrestrial ecosystems of the conterminous United States from 1948 to 2008: an analysis with a process-based soil physical model and AmeriFlux data. Climatic Change, 2014, 126, 135-150.	3.6	16
125	Potential influence of climate-induced vegetation shifts on future land use and associated land carbon fluxes in Northern Eurasia. Environmental Research Letters, 2014, 9, 035004.	5.2	43
126	Carbon and nitrogen dynamics in bioenergy ecosystems: 1. Model development, validation and sensitivity analysis. GCB Bioenergy, 2014, 6, 740-755.	5.6	9

#	Article	IF	CITATIONS
127	Parameterization and sensitivity analysis of a processâ€based terrestrial ecosystem model using adjoint method. Journal of Advances in Modeling Earth Systems, 2014, 6, 315-331.	3.8	23
128	Cryostratigraphy and Permafrost Evolution in the Lacustrine Lowlands of West entral Alaska. Permafrost and Periglacial Processes, 2014, 25, 14-34.	3.4	72
129	Evaluating CO2 and CH4 dynamics of Alaskan ecosystems during the Holocene Thermal Maximum. Quaternary Science Reviews, 2014, 86, 63-77.	3.0	5
130	On the local odds ratio between points and marks in marked point processes. Spatial Statistics, 2014, 9, 20-37.	1.9	5
131	Aerosol effects on global land surface energy fluxes during 2003–2010. Geophysical Research Letters, 2014, 41, 7875-7881.	4.0	28
132	Response of evapotranspiration and water availability to the changing climate in Northern Eurasia. Climatic Change, 2014, 126, 413-427.	3.6	35
133	Uncertainty in the fate of soil organic carbon: A comparison of three conceptually different decomposition models at a larch plantation. Journal of Geophysical Research G: Biogeosciences, 2014, 119, 1892-1905.	3.0	11
134	Response of evapotranspiration and water availability to changing climate and land cover on the Mongolian Plateau during the 21st century. Global and Planetary Change, 2013, 108, 85-99.	3.5	60
135	Soil organic carbon sequestration potential of cropland in China. Global Biogeochemical Cycles, 2013, 27, 711-722.	4.9	83
136	Methane emissions from wetlands: biogeochemical, microbial, and modeling perspectives from local to global scales. Global Change Biology, 2013, 19, 1325-1346.	9.5	836
137	Phenology shift from 1989 to 2008 on the Tibetan Plateau: an analysis with a process-based soil physical model and remote sensing data. Climatic Change, 2013, 119, 435-449.	3.6	59
138	Estimating wetland methane emissions from the northern high latitudes from 1990 to 2009 using artificial neural networks. Global Biogeochemical Cycles, 2013, 27, 592-604.	4.9	31
139	Biofuel, land and water: maize, switchgrass or <i>Miscanthus</i> ?. Environmental Research Letters, 2013, 8, 015020.	5.2	76
140	Sensitivity of carbon budget to historical climate variability and atmospheric CO2 concentration in temperate grassland ecosystems in China. Climatic Change, 2013, 117, 259-272.	3.6	25
141	Pan-Arctic land–atmospheric fluxes of methane and carbon dioxide in response to climate change over the 21st century. Environmental Research Letters, 2013, 8, 045003.	5.2	18
142	Reorganization of vegetation, hydrology and soil carbon after permafrost degradation across heterogeneous boreal landscapes. Environmental Research Letters, 2013, 8, 035017.	5.2	137
143	Permafrost degradation and methane: low risk of biogeochemical climate-warming feedback. Environmental Research Letters, 2013, 8, 035014.	5.2	43
144	Response of global soil consumption of atmospheric methane to changes in atmospheric climate and nitrogen deposition. Global Biogeochemical Cycles, 2013, 27, 650-663.	4.9	88

#	Article	IF	CITATIONS
145	Improving the quantification of terrestrial ecosystem carbon dynamics over the United States using an adjoint method. Ecosphere, 2013, 4, 1-21.	2.2	9
146	Alternative ways of using fieldâ€based estimates to calibrate ecosystem models and their implications for carbon cycle studies. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 983-993.	3.0	5
147	Modeling the effects of organic nitrogen uptake by plants on the carbon cycling of boreal forest and tundra ecosystems. Biogeosciences, 2013, 10, 7943-7955.	3.3	22
148	Spatially Explicit Parameterization of a Terrestrial Ecosystem Model and Its Application to the Quantification of Carbon Dynamics of Forest Ecosystems in the Conterminous United States. Earth Interactions, 2012, 16, 1-22.	1.5	11
149	Modeling Large Fire Frequency and Burned Area in Canadian Terrestrial Ecosystems with Poisson Models. Environmental Modeling and Assessment, 2012, 17, 483-493.	2.2	17
150	Modeling methane emissions from the Alaskan Yukon River basin, 1986–2005, by coupling a largeâ€scale hydrological model and a processâ€based methane model. Journal of Geophysical Research, 2012, 117, .	3.3	24
151	Modeling thermal dynamics of active layer soils and nearâ€surface permafrost using a fully coupled water and heat transport model. Journal of Geophysical Research, 2012, 117, .	3.3	36
152	Uncertainty analysis of vegetation distribution in the northern high latitudes during the 21st century with a dynamic vegetation model. Ecology and Evolution, 2012, 2, 593-614.	1.9	39
153	An inventory of global N2O emissions from the soils of natural terrestrial ecosystems. Atmospheric Environment, 2012, 47, 66-75.	4.1	84
154	Impacts of land use change due to biofuel crops on carbon balance, bioenergy production, and agricultural yield, in the conterminous <scp>U</scp> nited <scp>S</scp> tates. GCB Bioenergy, 2012, 4, 277-288.	5.6	61
155	Extreme value analysis of wildfires in Canadian boreal forest ecosystems. Canadian Journal of Forest Research, 2011, 41, 1836-1851.	1.7	18
156	Carbon Consequences and Agricultural Implications of Growing Biofuel Crops on Marginal Agricultural Lands in China. Environmental Science & Technology, 2011, 45, 10765-10772.	10.0	60
157	Areal changes of land ecosystems in the Alaskan Yukon River Basin from 1984 to 2008. Environmental Research Letters, 2011, 6, 034012.	5.2	12
158	Assessing net ecosystem carbon exchange of U.S. terrestrial ecosystems by integrating eddy covariance flux measurements and satellite observations. Agricultural and Forest Meteorology, 2011, 151, 60-69.	4.8	157
159	Quantification of terrestrial ecosystem carbon dynamics in the conterminous United States combining a process-based biogeochemical model and MODIS and AmeriFlux data. Biogeosciences, 2011, 8, 2665-2688.	3.3	26
160	Modeling soil thermal and hydrological dynamics and changes of growing season in Alaskan terrestrial ecosystems. Climatic Change, 2011, 107, 481-510.	3.6	25
161	Rising methane emissions in response to climate change in Northern Eurasia during the 21st century. Environmental Research Letters, 2011, 6, 045211.	5.2	23
162	Estimating methane emissions from northern lakes using iceâ€bubble surveys. Limnology and Oceanography: Methods, 2010, 8, 592-609.	2.0	94

#	Article	IF	CITATIONS
163	Evaluating climate impacts on carbon balance of the terrestrial ecosystems in the Midwest of the United States with a process-based ecosystem model. Mitigation and Adaptation Strategies for Global Change, 2010, 15, 467-487.	2.1	21
164	A continuous measure of gross primary production for the conterminous United States derived from MODIS and AmeriFlux data. Remote Sensing of Environment, 2010, 114, 576-591.	11.0	210
165	Evaluating evapotranspiration and water-use efficiency of terrestrial ecosystems in the conterminous United States using MODIS and AmeriFlux data. Remote Sensing of Environment, 2010, 114, 1924-1939.	11.0	146
166	Carbon dynamics of terrestrial ecosystems on the Tibetan Plateau during the 20th century: an analysis with a processâ€based biogeochemical model. Global Ecology and Biogeography, 2010, 19, 649-662.	5.8	97
167	Quantifying wetland methane emissions with process-based models of different complexities. Biogeosciences, 2010, 7, 3817-3837.	3.3	53
168	Midâ€upper tropospheric methane in the high Northern Hemisphere: Spaceborne observations by AIRS, aircraft measurements, and model simulations. Journal of Geophysical Research, 2010, 115, .	3.3	44
169	Possible decline of the carbon sink in the Mongolian Plateau during the 21st century. Environmental Research Letters, 2009, 4, 045023.	5.2	25
170	Quantification of net primary production of Chinese forest ecosystems with spatial statistical approaches. Mitigation and Adaptation Strategies for Global Change, 2009, 14, 85-99.	2.1	11
171	A global sensitivity analysis and Bayesian inference framework for improving the parameter estimation and prediction of a processâ€based Terrestrial Ecosystem Model. Journal of Geophysical Research, 2009, 114, .	3.3	57
172	Characterization of wildfire regimes in Canadian boreal terrestrial ecosystems. International Journal of Wildland Fire, 2009, 18, 992.	2.4	20
173	Global Methan Emissions From Wetlands, Rice Paddies, and Lakes. Eos, 2009, 90, 37-38.	0.1	49
174	Estimation of net ecosystem carbon exchange for the conterminous United States by combining MODIS and AmeriFlux data. Agricultural and Forest Meteorology, 2008, 148, 1827-1847.	4.8	221
175	Introduction to special section on Synthesis of Recent Terrestrial Methane Emission Studies. Journal of Geophysical Research, 2008, 113, .	3.3	5
176	Equifinality in parameterization of processâ€based biogeochemistry models: A significant uncertainty source to the estimation of regional carbon dynamics. Journal of Geophysical Research, 2008, 113, .	3.3	75
177	Drought effects on large fire activity in Canadian and Alaskan forests. Environmental Research Letters, 2007, 2, 044003.	5.2	69
178	NET EMISSIONS OF CH4AND CO2IN ALASKA: IMPLICATIONS FOR THE REGION'S GREENHOUSE GAS BUDGET. , 2007, 17, 203-212.		74
179	ASSESSING THE CARBON BALANCE OF CIRCUMPOLAR ARCTIC TUNDRA USING REMOTE SENSING AND PROCESS MODELING. , 2007, 17, 213-234.		123
180	The role of historical fire disturbance in the carbon dynamics of the pan-boreal region: A process-based analysis. Journal of Geophysical Research, 2007, 112, .	3.3	158

#	Article	IF	CITATIONS
181	CO2and CH4exchanges between land ecosystems and the atmosphere in northern high latitudes over the 21st century. Geophysical Research Letters, 2006, 33, .	4.0	179
182	Importance of recent shifts in soil thermal dynamics on growing season length, productivity, and carbon sequestration in terrestrial high-latitude ecosystems. Global Change Biology, 2006, 12, 731-750.	9.5	292
183	Future Effects of Ozone on Carbon Sequestration and Climate Change Policy Using a Global Biogeochemical Model. Climatic Change, 2005, 73, 345-373.	3.6	124
184	Effects of ozone on net primary production and carbon sequestration in the conterminous United States using a biogeochemistry model. Tellus, Series B: Chemical and Physical Meteorology, 2004, 56, 230-248.	1.6	154
185	Methane fluxes between terrestrial ecosystems and the atmosphere at northern high latitudes during the past century: A retrospective analysis with a process-based biogeochemistry model. Clobal Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	279
186	Carbon cycling in extratropical terrestrial ecosystems of the Northern Hemisphere during the 20th century: a modeling analysis of the influences of soil thermal dynamics. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 751-776.	1.6	151
187	Modeling soil thermal and carbon dynamics of a fire chronosequence in interior Alaska. Journal of Geophysical Research, 2003, 108, FFR 3-1.	3.3	121
188	Incorporation of a permafrost model into a large-scale ecosystem model: Evaluation of temporal and spatial scaling issues in simulating soil thermal dynamics. Journal of Geophysical Research, 2001, 106, 33649-33670.	3.3	113
189	A model intercomparison analysis for controls on C accumulation in North American peatlands. Journal of Geophysical Research G: Biogeosciences, 0, , .	3.0	2