

Martin Heimann

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/620435/publications.pdf>

Version: 2024-02-01

272
papers

32,845
citations

6254

80
h-index

5539

163
g-index

337
all docs

337
docs citations

337
times ranked

23300
citing authors

#	ARTICLE	IF	CITATIONS
1	Three decades of global methane sources and sinks. <i>Nature Geoscience</i> , 2013, 6, 813-823.	12.9	1,649
2	Terrestrial ecosystem carbon dynamics and climate feedbacks. <i>Nature</i> , 2008, 451, 289-292.	27.8	1,245
3	Recent patterns and mechanisms of carbon exchange by terrestrial ecosystems. <i>Nature</i> , 2001, 414, 169-172.	27.8	1,162
4	Towards robust regional estimates of CO ₂ sources and sinks using atmospheric transport models. <i>Nature</i> , 2002, 415, 626-630.	27.8	1,157
5	Comparing global models of terrestrial net primary productivity (NPP): overview and key results. <i>Global Change Biology</i> , 1999, 5, 1-15.	9.5	917
6	Reconciling Carbon-cycle Concepts, Terminology, and Methods. <i>Ecosystems</i> , 2006, 9, 1041-1050.	3.4	904
7	Sensitivity of the carbon cycle in the Arctic to climate change. <i>Ecological Monographs</i> , 2009, 79, 523-555.	5.4	814
8	Saturation of the Southern Ocean CO ₂ Sink Due to Recent Climate Change. <i>Science</i> , 2007, 316, 1735-1738.	12.6	779
9	Weak Northern and Strong Tropical Land Carbon Uptake from Vertical Profiles of Atmospheric CO ₂ . <i>Science</i> , 2007, 316, 1732-1735.	12.6	775
10	Comprehensive comparison of gap-filling techniques for eddy covariance net carbon fluxes. <i>Agricultural and Forest Meteorology</i> , 2007, 147, 209-232.	4.8	744
11	Carbon balance of the terrestrial biosphere in the Twentieth Century: Analyses of CO ₂ , climate and land use effects with four process-based ecosystem models. <i>Global Biogeochemical Cycles</i> , 2001, 15, 183-206.	4.9	680
12	Global and hemispheric CO ₂ sinks deduced from changes in atmospheric O ₂ concentration. <i>Nature</i> , 1996, 381, 218-221.	27.8	571
13	An inverse modeling approach to investigate the global atmospheric methane cycle. <i>Global Biogeochemical Cycles</i> , 1997, 11, 43-76.	4.9	531
14	CO ₂ flux history 1982–2001 inferred from atmospheric data using a global inversion of atmospheric transport. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1919-1964.	4.9	528
15	Reduction of ecosystem productivity and respiration during the European summer 2003 climate anomaly: a joint flux tower, remote sensing and modelling analysis. <i>Global Change Biology</i> , 2007, 13, 634-651.	9.5	486
16	Impact of vegetation and preferential source areas on global dust aerosol: Results from a model study. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 14-1-AAC 14-27.	3.3	453
17	Carbon and Other Biogeochemical Cycles. , 2014, , 465-570.		435
18	TransCom 3 inversion intercomparison: Impact of transport model errors on the interannual variability of regional CO ₂ fluxes, 1988-2003. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a.	4.9	417

#	ARTICLE	IF	CITATIONS
19	CLIMATE CHANGE: Managing Forests After Kyoto. <i>Science</i> , 2000, 289, 2058-2059.	12.6	392
20	A process-based, climate-sensitive model to derive methane emissions from natural wetlands: Application to five wetland sites, sensitivity to model parameters, and climate. <i>Global Biogeochemical Cycles</i> , 2000, 14, 745-765.	4.9	379
21	CLIMATE: The Terrestrial Carbon Cycle: Implications for the Kyoto Protocol. <i>Science</i> , 1998, 280, 1393-1394.	12.6	378
22	Water isotope module of the ECHAM atmospheric general circulation model: A study on timescales from days to several years. <i>Journal of Geophysical Research</i> , 1998, 103, 16871-16896.	3.3	324
23	Enhanced seasonal CO ₂ exchange caused by amplified plant productivity in northern ecosystems. <i>Science</i> , 2016, 351, 696-699.	12.6	319
24	Transcom 3 inversion intercomparison: Model mean results for the estimation of seasonal carbon sources and sinks. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	4.9	312
25	Importance of methane and nitrous oxide for Europe's terrestrial greenhouse-gas balance. <i>Nature Geoscience</i> , 2009, 2, 842-850.	12.9	310
26	BELOWGROUND CONSEQUENCES OF VEGETATION CHANGE AND THEIR TREATMENT IN MODELS. , 2000, 10, 470-483.		295
27	Inverse modeling of methane sources and sinks using the adjoint of a global transport model. <i>Journal of Geophysical Research</i> , 1999, 104, 26137-26160.	3.3	286
28	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO ₂ . <i>New Phytologist</i> , 2021, 229, 2413-2445.	7.3	286
29	A two-fold increase of carbon cycle sensitivity to tropical temperature variations. <i>Nature</i> , 2014, 506, 212-215.	27.8	284
30	Model-data synthesis in terrestrial carbon observation: methods, data requirements and data uncertainty specifications. <i>Global Change Biology</i> , 2005, 11, 378-397.	9.5	283
31	Satellite cartography of atmospheric methane from SCIAMACHY on board ENVISAT: 2. Evaluation based on inverse model simulations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	263
32	Climate-induced oceanic oxygen fluxes: Implications for the contemporary carbon budget. <i>Global Biogeochemical Cycles</i> , 2002, 16, 6-16-13.	4.9	247
33	Atmospheric methane and carbon dioxide from SCIAMACHY satellite data: initial comparison with chemistry and transport models. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 941-962.	4.9	238
34	On aggregation errors in atmospheric transport inversions. <i>Journal of Geophysical Research</i> , 2001, 106, 4703-4715.	3.3	235
35	TransCom 3 CO ₂ inversion intercomparison: 1. Annual mean control results and sensitivity to transport and prior flux information. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 555-579.	1.6	235
36	Seven years of recent European net terrestrial carbon dioxide exchange constrained by atmospheric observations. <i>Global Change Biology</i> , 2010, 16, 1317-1337.	9.5	223

#	ARTICLE	IF	CITATIONS
37	Inverse modeling of CO ₂ sources and sinks using satellite data: a synthetic inter-comparison of measurement techniques and their performance as a function of space and time. Atmospheric Chemistry and Physics, 2004, 4, 523-538.	4.9	222
38	Modeling modern methane emissions from natural wetlands: 1. Model description and results. Journal of Geophysical Research, 2001, 106, 34189-34206.	3.3	221
39	A three-dimensional model of atmospheric CO ₂ transport based on observed winds: 1. Analysis of observational data. Geophysical Monograph Series, 0, , 165-236.	0.1	220
40	The Amazon Tall Tower Observatory (ATTO): overview of pilot measurements on ecosystem ecology, meteorology, trace gases, and aerosols. Atmospheric Chemistry and Physics, 2015, 15, 10723-10776.	4.9	218
41	A three-dimensional synthesis study of $\delta^{18}O$ in atmospheric CO ₂ : 1. Surface fluxes. Journal of Geophysical Research, 1997, 102, 5857-5872.	3.3	200
42	Current systematic carbon-cycle observations and the need for implementing a policy-relevant carbon observing system. Biogeosciences, 2014, 11, 3547-3602.	3.3	189
43	Title is missing!. Climatic Change, 2000, 44, 471-493.	3.6	182
44	Satellite cartography of atmospheric methane from SCIAMACHY on board ENVISAT: Analysis of the years 2003 and 2004. Journal of Geophysical Research, 2006, 111, .	3.3	182
45	Inverse modeling of the global CO cycle: 1. Inversion of CO mixing ratios. Journal of Geophysical Research, 2000, 105, 1909-1927.	3.3	180
46	Atmospheric CO ₂ and ¹³ CO ₂ Exchange with the Terrestrial Biosphere and Oceans from 1978 to 2000: Observations and Carbon Cycle Implications. , 2005, , 83-113.		180
47	Borehole versus isotope temperatures on Greenland: Seasonality does matter. Geophysical Research Letters, 2000, 27, 723-726.	4.0	179
48	The carbon budget of terrestrial ecosystems at country-scale – a European case study. Biogeosciences, 2005, 2, 15-26.	3.3	178
49	¹⁴ C Variations Caused by Changes in the Global Carbon Cycle. Radiocarbon, 1980, 22, 177-191.	1.8	177
50	Uncertainties in global terrestrial biosphere modeling: 1. A comprehensive sensitivity analysis with a new photosynthesis and energy balance scheme. Global Biogeochemical Cycles, 2001, 15, 207-225.	4.9	169
51	Uncertainties of modeling gross primary productivity over Europe: A systematic study on the effects of using different drivers and terrestrial biosphere models. Global Biogeochemical Cycles, 2007, 21, .	4.9	163
52	Carbon monoxide, methane and carbon dioxide columns retrieved from SCIAMACHY by WFM-DOAS: year 2003 initial data set. Atmospheric Chemistry and Physics, 2005, 5, 3313-3329.	4.9	162
53	Variations in modeled atmospheric transport of carbon dioxide and the consequences for CO ₂ inversions. Global Biogeochemical Cycles, 1996, 10, 783-796.	4.9	155
54	Three-dimensional simulation of ⁷ Be in a global climate model. Journal of Geophysical Research, 1991, 96, 22423-22445.	3.3	150

#	ARTICLE	IF	CITATIONS
55	Testing global ocean carbon cycle models using measurements of atmospheric O ₂ and CO ₂ concentration. <i>Global Biogeochemical Cycles</i> , 1998, 12, 213-230.	4.9	145
56	Continuous low-maintenance CO ₂ and CH ₄ /H ₂ measurements at the Zotino Tall Tower Observatory (ZOTTO) in Central Siberia. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 1113-1128.	3.1	144
57	Atmospheric carbon gases retrieved from SCIAMACHY by WFM-DOAS: version 0.5 CO and CH ₄ and impact of calibration improvements on CO ₂ retrieval. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 2727-2751.	4.9	143
58	Global surface-ocean CO ₂ and sea-air CO ₂ flux variability from an observation-driven ocean mixed-layer scheme. <i>Ocean Science</i> , 2013, 9, 193-216.	3.4	141
59	CH ₄ sources estimated from atmospheric observations of CH ₄ and its ¹³ C/ ¹² C isotopic ratios: 1. Inverse modeling of source processes. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	4.9	139
60	A method of determining rooting depth from a terrestrial biosphere model and its impacts on the global water and carbon cycle. <i>Global Change Biology</i> , 1998, 4, 275-286.	9.5	138
61	Analyzing the causes and spatial pattern of the European 2003 carbon flux anomaly using seven models. <i>Biogeosciences</i> , 2008, 5, 561-583.	3.3	136
62	Evaluation of terrestrial carbon cycle models through simulations of the seasonal cycle of atmospheric CO ₂ : First results of a model intercomparison study. <i>Global Biogeochemical Cycles</i> , 1998, 12, 1-24.	4.9	132
63	Comparing global models of terrestrial net primary productivity (NPP): the importance of water availability. <i>Global Change Biology</i> , 1999, 5, 46-55.	9.5	127
64	THE CARBON BALANCE OF THE TERRESTRIAL BIOSPHERE: ECOSYSTEM MODELS AND ATMOSPHERIC OBSERVATIONS. , 2000, 10, 1553-1573.		126
65	Radiocarbon evidence for a smaller oceanic carbon dioxide sink than previously believed. <i>Nature</i> , 1994, 370, 201-203.	27.8	123
66	A process-based model to derive methane emissions from natural wetlands. <i>Geophysical Research Letters</i> , 1996, 23, 3731-3734.	4.0	123
67	Urbanization Impacts on the Climate in Europe: Numerical Experiments by the PSU-NCAR Mesoscale Model (MM5). <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 1442-1455.	1.5	119
68	A coarse grid three-dimensional global inverse model of the atmospheric transport: 2. Inversion of the transport of CO ₂ in the 1980s. <i>Journal of Geophysical Research</i> , 1999, 104, 18555-18581.	3.3	118
69	Seasonal variations in the atmospheric O ₂ /N ₂ ratio in relation to the kinetics of air-sea gas exchange. <i>Global Biogeochemical Cycles</i> , 1998, 12, 141-163.	4.9	116
70	Water isotope modeling in the Asian monsoon region. <i>Quaternary International</i> , 1997, 37, 115-128.	1.5	115
71	Assessing the role of deep rooted vegetation in the climate system with model simulations: mechanism, comparison to observations and implications for Amazonian deforestation. <i>Climate Dynamics</i> , 2000, 16, 183-199.	3.8	111
72	Assimilating atmospheric data into a terrestrial biosphere model: A case study of the seasonal cycle. <i>Global Biogeochemical Cycles</i> , 2002, 16, 14-1-14-16.	4.9	111

#	ARTICLE	IF	CITATIONS
73	Interannual sea-air CO ₂ flux variability from an observation-driven ocean mixed-layer scheme. <i>Biogeosciences</i> , 2014, 11, 4599-4613.	3.3	111
74	A prognostic phenology scheme for global terrestrial carbon cycle models. <i>Climate Research</i> , 1996, 6, 1-19.	1.1	111
75	Isotopic composition and origin of polar precipitation in present and glacial climate simulations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2001, 53, 53-71.	1.6	110
76	Modeling modern methane emissions from natural wetlands: 2. Interannual variations 1982-1993. <i>Journal of Geophysical Research</i> , 2001, 106, 34207-34219.	3.3	109
77	On the relations between the oceanic uptake of CO ₂ and its carbon isotopes. <i>Global Biogeochemical Cycles</i> , 1996, 10, 89-110.	4.9	108
78	Reconciling apparent inconsistencies in estimates of terrestrial CO ₂ sources and sinks. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 345-363.	1.6	105
79	TransCom 3 CO ₂ inversion intercomparison: 1. Annual mean control results and sensitivity to transport and prior flux information. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 55, 555.	1.6	105
80	Three-dimensional transport and concentration of SF ₆ . A model intercomparison study (TransCom 2). <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999, 51, 266-297.	1.6	101
81	CH ₄ sources estimated from atmospheric observations of CH ₄ and its ¹³ C/ ¹² C isotopic ratios: 2. Inverse modeling of CH ₄ fluxes from geographical regions. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	4.9	99
82	Impact of 1998-2002 midlatitude drought and warming on terrestrial ecosystem and the global carbon cycle. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	99
83	Seasonal characteristics of tropical marine boundary layer air measured at the Cape Verde Atmospheric Observatory. <i>Journal of Atmospheric Chemistry</i> , 2010, 67, 87-140.	3.2	97
84	A coarse grid three-dimensional global inverse model of the atmospheric transport: 1. Adjoint model and Jacobian matrix. <i>Journal of Geophysical Research</i> , 1999, 104, 18535-18553.	3.3	96
85	Two decades of ocean CO ₂ sink and variability. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 649-656.	1.6	92
86	Three-dimensional modeling of the concentration and deposition of ²¹⁰ Pb aerosols. <i>Journal of Geophysical Research</i> , 1991, 96, 22447-22460.	3.3	90
87	Three dimensional atmospheric transport simulation of the radioactive tracers ²¹⁰ Pb, ⁷ Be, ¹⁰ Be, and ⁹⁰ Sr. <i>Journal of Geophysical Research</i> , 1995, 100, 26141.	3.3	90
88	Isotopic composition and origin of polar precipitation in present and glacial climate simulations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 53, 53.	1.6	90
89	Impact of drought stress and other factors on seasonal land biosphere CO ₂ exchange studied through an atmospheric tracer transport model. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1995, 47, 471-489.	1.6	89
90	MERLIN: A French-German Space Lidar Mission Dedicated to Atmospheric Methane. <i>Remote Sensing</i> , 2017, 9, 1052.	4.0	88

#	ARTICLE	IF	CITATIONS
91	Three-dimensional transport and concentration of SF ₆ ; A model intercomparison study (TransCom 2). <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 51, 266.	1.6	88
92	Vulnerability of permafrost carbon to global warming. Part I: model description and role of heat generated by organic matter decomposition. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 250.	1.6	87
93	Importance of fossil fuel emission uncertainties over Europe for CO ₂ modeling: model intercomparison. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 6607-6622.	4.9	87
94	The BETHY/JSBACH Carbon Cycle Data Assimilation System: experiences and challenges. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1414-1426.	3.0	86
95	A simple three-dimensional canopy - planetary boundary layer simulation model for scalar concentrations and fluxes. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002, 54, 784-819.	1.6	85
96	Early snowmelt significantly enhances boreal springtime carbon uptake. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 11081-11086.	7.1	84
97	Old-Growth Forest Definitions: a Pragmatic View. <i>Ecological Studies</i> , 2009, , 11-33.	1.2	83
98	Evaluation of terrestrial carbon cycle models with atmospheric CO ₂ measurements: Results from transient simulations considering increasing CO ₂ , climate, and land-use effects. <i>Global Biogeochemical Cycles</i> , 2002, 16, 39-1-39-15.	4.9	79
99	A model of the Earth's Dole effect. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	4.9	79
100	FLUXNET-CH ₄ : a global, multi-ecosystem dataset and analysis of methane seasonality from freshwater wetlands. <i>Earth System Science Data</i> , 2021, 13, 3607-3689.	9.9	79
101	A three-dimensional model of atmospheric CO ₂ transport based on observed winds: 4. Mean annual gradients and interannual variations. <i>Geophysical Monograph Series</i> , 0, , 305-363.	0.1	78
102	Climate and interannual variability of the atmosphere-biosphere ¹³ C CO ₂ flux. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	76
103	A three-dimensional synthesis study of δ ¹⁸ O in atmospheric CO ₂ : 2. Simulations with the TM2 transport model. <i>Journal of Geophysical Research</i> , 1997, 102, 5873-5883.	3.3	75
104	Modeling interannual variability of water isotopes in Greenland and Antarctica. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 1-1.	3.3	75
105	Characterization of ecosystem responses to climatic controls using artificial neural networks. <i>Global Change Biology</i> , 2010, 16, 2737-2749.	9.5	75
106	A novel bias correction methodology for climate impact simulations. <i>Earth System Dynamics</i> , 2016, 7, 71-88.	7.1	75
107	Global inverse modeling of CH ₄ sources and sinks: an overview of methods. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 235-256.	4.9	75
108	TransCom 3 CO ₂ inversion intercomparison: 2. Sensitivity of annual mean results to data choices. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 580-595.	1.6	74

#	ARTICLE	IF	CITATIONS
109	A three-dimensional model of atmospheric CO ₂ transport based on observed winds: 2. Model description and simulated tracer experiments. <i>Geophysical Monograph Series</i> , 0, , 237-275.	0.1	73
110	In-situ measurements of oxygen, carbon monoxide and greenhouse gases from Ochsenkopf tall tower in Germany. <i>Atmospheric Measurement Techniques</i> , 2009, 2, 573-591.	3.1	72
111	Time-dependent atmospheric CO ₂ inversions based on interannually varying tracer transport. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 488-497.	1.6	71
112	How does the terrestrial carbon exchange respond to inter-annual climatic variations? A quantification based on atmospheric CO ₂ data. <i>Biogeosciences</i> , 2018, 15, 2481-2498.	3.3	68
113	El Niño-Southern Oscillation related fluctuations of the marine carbon cycle. <i>Global Biogeochemical Cycles</i> , 1994, 8, 39-63.	4.9	67
114	A two-step scheme for high-resolution regional atmospheric trace gas inversions based on independent models. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5331-5342.	4.9	67
115	Impact of drought stress and other factors on seasonal land biosphere CO ₂ exchange studied through an atmospheric tracer transport model. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 47, 471.	1.6	65
116	Enigma of the recent methane budget. <i>Nature</i> , 2011, 476, 157-158.	27.8	64
117	Quantifying changes in climate variability and extremes: Pitfalls and their overcoming. <i>Geophysical Research Letters</i> , 2015, 42, 9990-9998.	4.0	64
118	Toward an Operational Anthropogenic CO ₂ Emissions Monitoring and Verification Support Capacity. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1439-E1451.	3.3	63
119	Optimised rooting depth and its impacts on the simulated climate of an atmospheric general circulation model. <i>Geophysical Research Letters</i> , 1998, 25, 345-348.	4.0	62
120	The carbon budget of the northern cryosphere region. <i>Current Opinion in Environmental Sustainability</i> , 2010, 2, 231-236.	6.3	61
121	A first-order analysis of the potential role of CO ₂ fertilization to affect the global carbon budget: a comparison of four terrestrial biosphere models. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999, 51, 343-366.	1.6	60
122	Measurements of greenhouse gases and related tracers at Bialystok tall tower station in Poland. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 407-427.	3.1	60
123	Title is missing!. <i>Biogeochemistry</i> , 2000, 48, 91-114.	3.5	59
124	Pan-Eurasian Experiment (PEEX): towards a holistic understanding of the feedbacks and interactions in the land-atmosphere-ocean-society continuum in the northern Eurasian region. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 14421-14461.	4.9	57
125	Meridional eddy diffusion model of the transport of atmospheric carbon dioxide: 2. Mean annual carbon cycle. <i>Journal of Geophysical Research</i> , 1986, 91, 7782-7796.	3.3	56
126	On observational and modelling strategies targeted at regional carbon exchange over continents. <i>Biogeosciences</i> , 2009, 6, 1949-1959.	3.3	55

#	ARTICLE	IF	CITATIONS
127	Long-term measurements of aerosol and carbon monoxide at the ZOTTO tall tower to characterize polluted and pristine air in the Siberian taiga. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 12271-12298.	4.9	54
128	Plants, microorganisms, and soil temperatures contribute to a decrease in methane fluxes on a drained Arctic floodplain. <i>Global Change Biology</i> , 2017, 23, 2396-2412.	9.5	54
129	Interactions between nitrogen deposition, land cover conversion, and climate change determine the contemporary carbon balance of Europe. <i>Biogeosciences</i> , 2010, 7, 2749-2764.	3.3	53
130	Uncertainties of predictions of future atmospheric CO ₂ concentrations. <i>Journal of Geophysical Research</i> , 1983, 88, 1258-1262.	3.3	52
131	Direct effect of aerosols on solar radiation and gross primary production in boreal and hemiboreal forests. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 17863-17881.	4.9	50
132	A first-order analysis of the potential role of CO ₂ fertilization to affect the global carbon budget: a comparison of four terrestrial biosphere models. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 51, 343.	1.6	49
133	Three years of trace gas observations over the EuroSiberian domain derived from aircraft sampling - a concerted action. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002, 54, 696-712.	1.6	46
134	Comparisons between SCIAMACHY atmospheric CO ₂ retrieved using (FSI) WFM-DOAS to ground based FTIR data and the TM3 chemistry transport model. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 4483-4498.	4.9	43
135	Seasonal, synoptic, and diurnal scale variability of biogeochemical trace gases and O ₂ from a 300m tall tower in central Siberia. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	43
136	Ocean primary production derived from satellite data: An evaluation with atmospheric oxygen measurements. <i>Global Biogeochemical Cycles</i> , 1999, 13, 257-271.	4.9	42
137	Observations of O ₂ :CO ₂ exchange ratios during ecosystem gas exchange. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	4.9	42
138	Interannual variability in oceanic biogeochemical processes inferred by inversion of atmospheric O ₂ /N ₂ and CO ₂ data. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2008, 60, 685-705.	1.6	42
139	Modeling the large-scale effects of surface moisture heterogeneity on wetland carbon fluxes in the West Siberian Lowland. <i>Biogeosciences</i> , 2013, 10, 6559-6576.	3.3	42
140	History of El Niño impacts on the global carbon cycle 1957–2017: a quantification from atmospheric CO ₂ data. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2018, 373, 20170303.	4.0	42
141	Inverse Modeling of Atmospheric Carbon Dioxide Fluxes. <i>Science</i> , 2001, 294, 259a-259.	12.6	41
142	Modelling terrestrial vegetation dynamics and carbon cycling for an abrupt climatic change event. <i>Holocene</i> , 2003, 13, 327-333.	1.7	40
143	Sensitivity of inverse estimation of annual mean CO ₂ sources and sinks to ocean-only sites versus all-sites observational networks. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	40
144	Comparing Lagrangian and Eulerian models for CO ₂ transport – a step towards Bayesian inverse modeling using WRF/STILT-VPRM. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8979-8991.	4.9	40

#	ARTICLE	IF	CITATIONS
145	Sensitivity of the seasonal cycle of CO ₂ at remote monitoring stations with respect to seasonal surface exchange fluxes determined with the adjoint of an atmospheric transport model. <i>Physics and Chemistry of the Earth</i> , 1996, 21, 457-462.	0.3	39
146	Uncertainties in global terrestrial biosphere modeling, Part II: Global constraints for a process-based vegetation model. <i>Global Biogeochemical Cycles</i> , 2001, 15, 227-246.	4.9	39
147	Comparing CO ₂ retrieved from Atmospheric Infrared Sounder with model predictions: Implications for constraining surface fluxes and lower-to-upper troposphere transport. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	39
148	Strong radiative effect induced by clouds and smoke on forest net ecosystem productivity in central Siberia. <i>Agricultural and Forest Meteorology</i> , 2018, 250-251, 376-387.	4.8	39
149	Simulation of atmospheric CO ₂ over Europe and western Siberia using the regional scale model REMO. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002, 54, 872-894.	1.6	38
150	Meridional eddy diffusion model of the transport of atmospheric carbon dioxide: 1. Seasonal carbon cycle over the tropical Pacific Ocean. <i>Journal of Geophysical Research</i> , 1986, 91, 7765-7781.	3.3	36
151	Transport of ²²² Rn using the regional model REMO: a detailed comparison with measurements over Europe. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2002, 54, 850-871.	1.6	36
152	Long-term Drainage Reduces CO ₂ Uptake and CH ₄ Emissions in a Siberian Permafrost Ecosystem. <i>Global Biogeochemical Cycles</i> , 2017, 31, 1704-1717.	4.9	36
153	Measurement equation for trace chemicals in fluids and solution of its inverse. <i>Geophysical Monograph Series</i> , 2000, , 3-18.	0.1	35
154	Observation and integrated Earth-system science: A roadmap for 2016–2025. <i>Advances in Space Research</i> , 2016, 57, 2037-2103.	2.6	35
155	Modelling the long-range transport of ²²² Rn to subantarctic and antarctic areas. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 42, 83.	1.6	34
156	How Stable Is the Methane Cycle?. <i>Science</i> , 2010, 327, 1211-1212.	12.6	34
157	Shifted energy fluxes, increased Bowen ratios, and reduced thaw depths linked with drainage-induced changes in permafrost ecosystem structure. <i>Cryosphere</i> , 2017, 11, 2975-2996.	3.9	34
158	Quantifying, Understanding and Managing the Carbon Cycle in the Next Decades. <i>Climatic Change</i> , 2004, 67, 147-160.	3.6	33
159	Pacific dominance to global air-sea CO ₂ flux variability: A novel atmospheric inversion agrees with ocean models. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	33
160	Technical Note: A new coupled system for global-to-regional downscaling of CO ₂ concentration estimation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3205-3213.	4.9	33
161	WRF-Chem simulations in the Amazon region during wet and dry season transitions: evaluation of methane models and wetland inundation maps. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7961-7982.	4.9	33
162	Long-term measurements (2010–2014) of carbonaceous aerosol and carbon monoxide at the Zotino Tall Tower Observatory (ZOTTO) in central Siberia. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 14365-14392.	4.9	33

#	ARTICLE	IF	CITATIONS
163	Gap-filling eddy covariance methane fluxes: Comparison of machine learning model predictions and uncertainties at FLUXNET-CH4 wetlands. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108528.	4.8	33
164	Contrasting and interacting changes in simulated spring and summer carbon cycle extremes in European ecosystems. <i>Environmental Research Letters</i> , 2017, 12, 075006.	5.2	32
165	Comparing global models of terrestrial net primary productivity (NPP): analysis of the seasonal atmospheric CO ₂ signal. <i>Global Change Biology</i> , 1999, 5, 65-76.	9.5	31
166	European CO ₂ fluxes from atmospheric inversions using regional and global transport models. <i>Climatic Change</i> , 2010, 103, 93-115.	3.6	31
167	Assessment of recent advances in measurement techniques for atmospheric carbon dioxide and methane observations. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 4737-4757.	3.1	31
168	Simulating the Atmospheric Carbon Dioxide Distribution with a Three-Dimensional Tracer Model. , 1986, , 16-49.		31
169	Modelling the long-range transport of ²²² Rn to subantarctic and antarctic areas. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1990, 42, 83-99.	1.6	30
170	Modeling terrestrial ¹³ C cycling: Climate, land use and fire. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	30
171	Constraining a land-surface model with multiple observations by application of the MPI-Carbon Cycle Data Assimilation System V1.0. <i>Geoscientific Model Development</i> , 2016, 9, 2999-3026.	3.6	30
172	Atmospheric CO ₂ inversions on the mesoscale using data-driven prior uncertainties: quantification of the European terrestrial CO ₂ fluxes. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3047-3064.	4.9	30
173	Assessment of the regional atmospheric impact of wildfire emissions based on CO observations at the ZOTTO tall tower station in central Siberia. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	29
174	Long-term drainage reduces CO ₂ uptake and increases CO ₂ emission on a Siberian floodplain due to shifts in vegetation community and soil thermal characteristics. <i>Biogeosciences</i> , 2016, 13, 4219-4235.	3.3	28
175	High-quality eddy covariance CO ₂ budgets under cold climate conditions. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2064-2084.	3.0	28
176	Deep-rooted vegetation, Amazonian deforestation, and climate: results from a modelling study. <i>Global Ecology and Biogeography</i> , 1999, 8, 397-405.	5.8	27
177	Drainage enhances modern soil carbon contribution but reduces old soil carbon contribution to ecosystem respiration in tundra ecosystems. <i>Global Change Biology</i> , 2019, 25, 1315-1325.	9.5	27
178	On the influence of biomass burning on the seasonal CO ₂ signal as observed at monitoring stations. <i>Global Biogeochemical Cycles</i> , 1998, 12, 531-544.	4.9	26
179	Tangent linear and adjoint biogeochemical models. <i>Geophysical Monograph Series</i> , 2000, , 33-48.	0.1	26
180	Green's function methods of tracer inversion. <i>Geophysical Monograph Series</i> , 2000, , 19-31.	0.1	26

#	ARTICLE	IF	CITATIONS
181	A three dimensional model of atmospheric CO ₂ transport based on observed winds: 3. Seasonal cycle and synoptic time scale variations. Geophysical Monograph Series, 0, , 277-303.	0.1	26
182	Negative feedback processes following drainage slow down permafrost degradation. Global Change Biology, 2019, 25, 3254-3266.	9.5	26
183	The CO ₂ budget and rectification airborne study: Strategies for measuring rectifiers and regional fluxes. Geophysical Monograph Series, 2000, , 311-324.	0.1	25
184	Charles David Keeling 1928–2005. Nature, 2005, 437, 331-331.	27.8	24
185	Climate sensitivity in the Anthropocene. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 1121-1131.	2.7	24
186	HIMMELI v1.0: Helsinki Model of MEthane buiLd-up and emISSION for peatlands. Geoscientific Model Development, 2017, 10, 4665-4691.	3.6	24
187	The climate benefit of carbon sequestration. Biogeosciences, 2021, 18, 1029-1048.	3.3	24
188	Low-Level Gas Proportional Counting in An Underground Laboratory. Radiocarbon, 1980, 22, 461-469.	1.8	23
189	The substitution of high-resolution terrestrial biosphere models and carbon sequestration in response to changing CO ₂ and climate. Global Biogeochemical Cycles, 1999, 13, 785-802.	4.9	23
190	Radiative Forcing of Climate Change. Space Science Reviews, 2000, 94, 363-373.	8.1	23
191	Inferences from CO ₂ and CH ₄ concentration profiles at the Zotino Tall Tower Observatory (ZOTTO) on regional summertime ecosystem fluxes. Biogeosciences, 2014, 11, 2055-2068.	3.3	22
192	Have precipitation extremes and annual totals been increasing in the world's dry regions over the last 60 years?. Hydrology and Earth System Sciences, 2017, 21, 441-458.	4.9	22
193	COCAP: a carbon dioxide analyser for small unmanned aircraft systems. Atmospheric Measurement Techniques, 2018, 11, 1833-1849.	3.1	22
194	Time-dependent atmospheric CO ₂ inversions based on interannually varying tracer transport. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 488.	1.6	21
195	Two decades of ocean CO ₂ sink and variability. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 649.	1.6	20
196	Insights from simulations with high-resolution transport and process models on sampling of the atmosphere for constraining midlatitude land carbon sinks. Journal of Geophysical Research, 2006, 111, .	3.3	20
197	Warming effects on the urban hydrology in cold climate regions. Scientific Reports, 2017, 7, 5833.	3.3	20
198	Technical Note: Atmospheric CO ₂ inversions on the mesoscale using data-driven prior uncertainties: methodology and system evaluation. Atmospheric Chemistry and Physics, 2018, 18, 3027-3045.	4.9	20

#	ARTICLE	IF	CITATIONS
199	Searching out the sinks. <i>Nature Geoscience</i> , 2009, 2, 3-4.	12.9	19
200	Old-Growth Forests: Function, Fate and Value – an Overview. <i>Ecological Studies</i> , 2009, , 3-10.	1.2	19
201	The European carbon cycle response to heat and drought as seen from atmospheric CO ₂ data for 1999–2018. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2020, 375, 20190506.	4.0	19
202	MODEL RESPONSES OF THE ATMOSPHERIC CO ₂ LEVEL AND 13C/12C RATIO TO BIOGENIC CO ₂ INPUT. , 1978, , 79-87.		19
203	A framework for comparing remotely sensed and in-situ CO ₂ concentrations. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2555-2568.	4.9	18
204	The climate sensitivity of the Osnabrück Biosphere model on the ENSO time scale. <i>Ecological Modelling</i> , 1994, 75-76, 239-256.	2.5	17
205	Possible changes of δ ¹⁸ O in precipitation caused by a meltwater event in the North Atlantic. <i>Journal of Geophysical Research</i> , 2000, 105, 10161-10167.	3.3	17
206	The Carbon Cycle and Its Perturbation by Man. , 1980, , 107-127.		17
207	Inverse modelling approaches to infer surface trace gas fluxes from observed atmospheric mixing ratios. <i>Developments in Atmospheric Science</i> , 1999, , 277-295.	0.2	16
208	Earlier snowmelt may lead to late season declines in plant productivity and carbon sequestration in Arctic tundra ecosystems. <i>Scientific Reports</i> , 2022, 12, 3986.	3.3	16
209	Validation of routine continuous airborne CO ₂ observations near the Bialystok Tall Tower. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 873-889.	3.1	15
210	Iconic CO ₂ Time Series at Risk. <i>Science</i> , 2012, 337, 1038-1040.	12.6	15
211	Impacts of a decadal drainage disturbance on surface–atmosphere fluxes of carbon dioxide in a permafrost ecosystem. <i>Biogeosciences</i> , 2016, 13, 5315-5332.	3.3	15
212	Assessing the climate sensitivity of the global terrestrial carbon cycle model SILVAN. <i>Physics and Chemistry of the Earth</i> , 1996, 21, 529-535.	0.3	14
213	Differences of CO ₂ flux estimates based on a “Time-Independent” versus a “Time-[ln]Dependent” inversion method. <i>Geophysical Monograph Series</i> , 2000, , 295-309.	0.1	14
214	Sensitivity of optimal extension of CO ₂ observation networks to model transport. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 498-511.	1.6	14
215	Causes of slowing down seasonal CO ₂ amplitude at Mauna Loa. <i>Global Change Biology</i> , 2020, 26, 4462-4477.	9.5	14
216	Reconciling apparent inconsistencies in estimates of terrestrial CO ₂ sources and sinks. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 55, 345.	1.6	13

#	ARTICLE	IF	CITATIONS
217	Long-term trend in CO ₂ concentration in the surface atmosphere over Central Siberia. Russian Meteorology and Hydrology, 2015, 40, 186-190.	1.3	13
218	Implications of ice core smoothing for inferring CO ₂ flux variability. Journal of Geophysical Research, 2003, 108, ACH 1-1-ACH 1-6.	3.3	12
219	Continuous measurements of greenhouse gases and atmospheric oxygen at the Namib Desert Atmospheric Observatory. Atmospheric Measurement Techniques, 2015, 8, 2233-2250.	3.1	12
220	Marine Nitrous Oxide Emissions From Three Eastern Boundary Upwelling Systems Inferred From Atmospheric Observations. Geophysical Research Letters, 2020, 47, e2020GL087822.	4.0	12
221	Methane budget estimates in Finland from the CarbonTracker Europe-CH ₄ data assimilation system. Tellus, Series B: Chemical and Physical Meteorology, 2022, 71, 1565030.	1.6	11
222	Simulating root carbon storage with a coupled carbon " Water cycle root model. Physics and Chemistry of the Earth, 1996, 21, 499-502.	0.3	10
223	Simulation of atmospheric CO ₂ over Europe and western Siberia using the regional scale model REMO. Tellus, Series B: Chemical and Physical Meteorology, 2002, 54, 872-894.	1.6	10
224	Parameter calibration and stomatal conductance formulation comparison for boreal forests with adaptive population importance sampler in the land surface model JSBACH. Geoscientific Model Development, 2019, 12, 4075-4098.	3.6	10
225	Air-sea fluxes of greenhouse gases and oxygen in the northern Benguela Current region during upwelling events. Biogeosciences, 2019, 16, 4065-4084.	3.3	10
226	Three years of trace gas observations over the EuroSiberian domain derived from aircraft sampling " a concerted action. Tellus, Series B: Chemical and Physical Meteorology, 2022, 54, 696.	1.6	10
227	Sources of and variations in tropospheric CO in Central Siberia: Numerical experiments and observations at the Zotino Tall Tower Observatory. Izvestiya - Atmospheric and Oceanic Physics, 2016, 52, 45-56.	0.9	9
228	Interannual Variability of Atmospheric CO ₂ Concentrations over Central Siberia from ZOTTO Data for 2009"2015. Russian Meteorology and Hydrology, 2018, 43, 288-294.	1.3	9
229	GROUND-BASED STATION NETWORK IN ARCTIC AND SUBARCTIC EURASIA: AN OVERVIEW. Geography, Environment, Sustainability, 2016, 9, 75-88.	1.3	9
230	The potential for rising CO ₂ to account for the observed uptake of carbon by tropical, temperate, and Boreal forest biomes. , 2004, , 109-149.		9
231	Overview: Recent advances in the understanding of the northern Eurasian environments and of the urban air quality in China " a Pan-Eurasian Experiment (PEEX) programme perspective. Atmospheric Chemistry and Physics, 2022, 22, 4413-4469.	4.9	9
232	Dynamics of the carbon cycle. Nature, 1995, 375, 629-630.	27.8	8
233	Continuous CO ₂ and CH ₄ Observations in the Coastal Arctic Atmosphere of the Western Taimyr Peninsula, Siberia: The First Results from a New Measurement Station in Dikson. Atmosphere, 2021, 12, 876.	2.3	8
234	The CO ₂ record at the Amazon Tall Tower Observatory: A new opportunity to study processes on seasonal and inter-annual scales. Global Change Biology, 2022, 28, 588-611.	9.5	8

#	ARTICLE	IF	CITATIONS
235	Determination of Global Scale Emissions of Atmospheric Methane Using an Inverse Modelling Method. , 1994, , 271-281.		8
236	Carbon Fluxes of the Eurosiberian Region.. Seibutsu Kankyo Chosetsu [Environment Control in Biology, 2002, 40, 249-258.	0.2	7
237	The effect of the global background on a synoptic scale simulation of tracer concentration. Journal of Geophysical Research, 1991, 96, 15415-15425.	3.3	6
238	Estimation theory and atmospheric data assimilation. Geophysical Monograph Series, 2000, , 49-65.	0.1	6
239	FOREWORD: The EUROSIBERIAN CARBONFLUX project. Tellus, Series B: Chemical and Physical Meteorology, 2002, 54, 417-419.	1.6	6
240	Technical Note: The Simple Diagnostic Photosynthesis and Respiration Model (SDPRM). Biogeosciences, 2013, 10, 6485-6508.	3.3	6
241	Variability of ground CO2 concentration in the middle taiga subzone of the Yenisei region of Siberia. Russian Journal of Ecology, 2015, 46, 143-151.	0.9	6
242	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
243	Temperature Control of Spring CO2 Fluxes at a Coniferous Forest and a Peat Bog in Central Siberia. Atmosphere, 2021, 12, 984.	2.3	6
244	European CO2 fluxes from atmospheric inversions using regional and global transport models. , 2010, , 93-115.		6
245	Environmental information extraction from satellite remote sensing data. Geophysical Monograph Series, 2000, , 125-137.	0.1	5
246	Linking trace gas measurements and molecular tracers of organic matter in aerosols for identification of ecosystem sources and types of wildfires in Central Siberia. IOP Conference Series: Earth and Environmental Science, 2016, 48, 012017.	0.3	5
247	Three decades of simulated global terrestrial carbon fluxes from a data assimilation system confronted with different periods of observations. Biogeosciences, 2019, 16, 3009-3032.	3.3	4
248	Accurate measurements of atmospheric carbon dioxide and methane mole fractions at the Siberian coastal site Ambarchik. Atmospheric Measurement Techniques, 2019, 12, 5717-5740.	3.1	4
249	An inversion method for determining time-dependent surface CO2 Fluxes. Geophysical Monograph Series, 2000, , 279-293.	0.1	3
250	Synthesis inversion of atmospheric CO2 using the NIRE chemical transport model. Geophysical Monograph Series, 2000, , 239-253.	0.1	3
251	A time-dependent assimilation and source retrieval technique for atmospheric tracers. Geophysical Monograph Series, 2000, , 265-277.	0.1	3
252	Influence of the Underlying Surface on Greenhouse Gas Concentrations in the Atmosphere Over Central Siberia. Geography and Natural Resources, 2019, 40, 221-229.	0.3	3

#	ARTICLE	IF	CITATIONS
253	Parameterization of Cloud Transport of Trace Species in Global 3-D Models. , 1991, , 465-483.		3
254	Calculating CO2 fluxes by data assimilation coupled to a three dimensional mass balance inversion. Geophysical Monograph Series, 2000, , 255-264.	0.1	2
255	Arctic: Uncertainties in methane link. Nature, 2013, 500, 529-529.	27.8	2
256	TransCom 3 inversion intercomparison: Impact of transport model errors on the interannual variability of regional CO2 fluxes, 1988-2003. Global Biogeochemical Cycles, 2006, 20, n/a-n/a.	4.9	2
257	The Cycle of Atmospheric Molecular Oxygen and Its Isotopes. , 2001, , 235-244.		2
258	Temporal Variability of $\delta^{13}C_2$ and $\delta^{13}C_4$ Concentration in the Atmosphere of Middle Taiga Ecosystems of Siberia. Izvestiya Rossiiskaya Akademii Nauk, Seriya Geograficheskaya, 2015, , 112.	0.2	2
259	Comment on "Carbon farming in hot, dry coastal areas: an option for climate change mitigation" by Becker et al. (2013). Earth System Dynamics, 2014, 5, 41-42.	7.1	1
260	The benefits of investing into improved carbon flux monitoring. Cogent Economics and Finance, 2016, 4, 1239672.	2.1	1
261	Winter CO2 Fluxes in Ecosystems of Central Siberia: Comparative Estimates Using Three Different Approaches. Russian Journal of Ecology, 2021, 52, 126-135.	0.9	1
262	Modelling the Global Carbon Cycle. Handbook of Environmental Chemistry, 1985, , 29-81.	0.4	1
263	The Global Carbon Cycle in the Climate System. , 1993, , 299-336.		1
264	Technical Summary. , 0, , 27-158.		0
265	Panel Discussion: Future Research Objectives. , 2001, , 285-288.		0
266	Modeling and Evaluating Terrestrial Biospheric Exchanges of Water, Carbon Dioxide, and Oxygen in the Global Climate System. , 2001, , 52-65.		0
267	Inverse Modeling of Atmospheric Carbon Dioxide Fluxes. Science, 2001, 294, 261m-261.	12.6	0
268	Reply to L. Kutzbach. Tellus, Series B: Chemical and Physical Meteorology, 2009, 61, 579-580.	1.6	0
269	Multidisciplinary Studies of the Global Carbon Cycle. Eos, 2013, 94, 426-426.	0.1	0
270	A Roadmap for a Continental-Scale Greenhouse Gas Observing System in Europe. Ecological Studies, 2008, , 377-386.	1.2	0

#	ARTICLE	IF	CITATIONS
271	Modellierung des Kohlenstoffkreislaufs im Industriezeitalter. , 1997, , 30-46.		0
272	Influence of the underlying surface on greenhouse gas concentrations in the atmosphere over Central Siberia.. , 2019, 3, .	0.1	0