

Martin Heimann

List of Publications by Year in descending order

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Version: 2024-02-01

270
papers

32,845
citations

6250

80
h-index

5532

163
g-index

337
all docs

337
docs citations

337
times ranked

23300
citing authors

#	ARTICLE	IF	CITATIONS
1	Modelling the long-range transport of CH_4 to subantarctic and antarctic areas. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 42, 83.	0.8	34
2	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.	0.8	65
3	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.	0.8	49
4	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.	0.8	90
5	Time-dependent atmospheric CO_2 inversions based on interannually varying tracer transport. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 55, 488.	0.8	21
6	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.	0.8	105
7	Two decades of ocean CO_2 sink and variability. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 55, 649.	0.8	20
8	Reconciling apparent inconsistencies in estimates of terrestrial CO_2 sources and sinks. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 55, 345.	0.8	13
9	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.	0.8	87
10	Methane budget estimates in Finland from the CarbonTracker Europe-CH ₄ data assimilation system. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 71, 1565030.	0.8	11
11	The CO_2 record at the Amazon Tall Tower Observatory: A new opportunity to study processes on seasonal and interannual scales. <i>Global Change Biology</i> , 2022, 28, 588-611.	4.2	8
12	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.	0.8	88
13	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> , 2022, 54, 696.	0.8	10
14	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.	1.6	16
15	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. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 4413-4469.	1.9	9
16	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO_2 . <i>New Phytologist</i> , 2021, 229, 2413-2445.	3.5	286
17	The climate benefit of carbon sequestration. <i>Biogeosciences</i> , 2021, 18, 1029-1048.	1.3	24
18	Winter CO_2 Fluxes in Ecosystems of Central Siberia: Comparative Estimates Using Three Different Approaches. <i>Russian Journal of Ecology</i> , 2021, 52, 126-135.	0.3	1

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19	Temperature Control of Spring CO ₂ Fluxes at a Coniferous Forest and a Peat Bog in Central Siberia. <i>Atmosphere</i> , 2021, 12, 984.	1.0	6
20	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.	3.7	79
21	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. <i>Atmosphere</i> , 2021, 12, 876.	1.0	8
22	Gap-filling eddy covariance methane fluxes: Comparison of machine learning model predictions and uncertainties at FLUXNET-CH ₄ wetlands. <i>Agricultural and Forest Meteorology</i> , 2021, 308-309, 108528.	1.9	33
23	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.	1.8	19
24	Causes of slowing down seasonal CO ₂ amplitude at Mauna Loa. <i>Global Change Biology</i> , 2020, 26, 4462-4477.	4.2	14
25	Marine Nitrous Oxide Emissions From Three Eastern Boundary Upwelling Systems Inferred From Atmospheric Observations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087822.	1.5	12
26	Toward an Operational Anthropogenic CO ₂ Emissions Monitoring and Verification Support Capacity. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E1439-E1451.	1.7	63
27	Parameter calibration and stomatal conductance formulation comparison for boreal forests with adaptive population importance sampler in the land surface model JSBACH. <i>Geoscientific Model Development</i> , 2019, 12, 4075-4098.	1.3	10
28	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.	4.2	27
29	Negative feedback processes following drainage slow down permafrost degradation. <i>Global Change Biology</i> , 2019, 25, 3254-3266.	4.2	26
30	Recent Warming Has Resulted in Smaller Gains in Net Carbon Uptake in Northern High Latitudes. <i>Journal of Climate</i> , 2019, 32, 5849-5863.	1.2	6
31	Air-sea fluxes of greenhouse gases and oxygen in the northern Benguela Current region during upwelling events. <i>Biogeosciences</i> , 2019, 16, 4065-4084.	1.3	10
32	Three decades of simulated global terrestrial carbon fluxes from a data assimilation system confronted with different periods of observations. <i>Biogeosciences</i> , 2019, 16, 3009-3032.	1.3	4
33	Influence of the Underlying Surface on Greenhouse Gas Concentrations in the Atmosphere Over Central Siberia. <i>Geography and Natural Resources</i> , 2019, 40, 221-229.	0.1	3
34	Accurate measurements of atmospheric carbon dioxide and methane mole fractions at the Siberian coastal site Ambarchik. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5717-5740.	1.2	4
35	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.	1.9	39
36	Technical Note: Atmospheric CO ₂ inversions on the mesoscale using data-driven prior uncertainties: methodology and system evaluation. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3027-3045.	1.9	20

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37	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.	1.9	30
38	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.	1.9	50
39	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.	1.8	42
40	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.	1.3	68
41	COCAP: a carbon dioxide analyser for small unmanned aircraft systems. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 1833-1849.	1.2	22
42	Interannual Variability of Atmospheric CO ₂ Concentrations over Central Siberia from ZOTTO Data for 2009–2015. <i>Russian Meteorology and Hydrology</i> , 2018, 43, 288-294.	0.2	9
43	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.	3.3	84
44	High-quality eddy covariance CO ₂ budgets under cold climate conditions. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 2064-2084.	1.3	28
45	Warming effects on the urban hydrology in cold climate regions. <i>Scientific Reports</i> , 2017, 7, 5833.	1.6	20
46	Contrasting and interacting changes in simulated spring and summer carbon cycle extremes in European ecosystems. <i>Environmental Research Letters</i> , 2017, 12, 075006.	2.2	32
47	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.	4.2	54
48	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.	1.9	33
49	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.	1.9	36
50	Global inverse modeling of CH ₄ sources and sinks: an overview of methods. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 235-256.	1.9	75
51	HIMMELI v1.0: Helsinki Model of Methane build-up and emission for peatlands. <i>Geoscientific Model Development</i> , 2017, 10, 4665-4691.	1.3	24
52	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.	1.5	34
53	MERLIN: A French-German Space Lidar Mission Dedicated to Atmospheric Methane. <i>Remote Sensing</i> , 2017, 9, 1052.	1.8	88
54	Have precipitation extremes and annual totals been increasing in the world's dry regions over the last 60 years?. <i>Hydrology and Earth System Sciences</i> , 2017, 21, 441-458.	1.9	22

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55	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.	1.3	28
56	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.	1.3	30
57	Assessment of recent advances in measurement techniques for atmospheric carbon dioxide and methane observations. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 4737-4757.	1.2	31
58	A novel bias correction methodology for climate impact simulations. <i>Earth System Dynamics</i> , 2016, 7, 71-88.	2.7	75
59	Sources of and variations in tropospheric CO in Central Siberia: Numerical experiments and observations at the Zotino Tall Tower Observatory. <i>Izvestiya - Atmospheric and Oceanic Physics</i> , 2016, 52, 45-56.	0.2	9
60	Observation and integrated Earth-system science: A roadmap for 2016–2025. <i>Advances in Space Research</i> , 2016, 57, 2037-2103.	1.2	35
61	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.	1.9	57
62	Linking trace gas measurements and molecular tracers of organic matter in aerosols for identification of ecosystem sources and types of wildfires in Central Siberia. <i>IOP Conference Series: Earth and Environmental Science</i> , 2016, 48, 012017.	0.2	5
63	The benefits of investing into improved carbon flux monitoring. <i>Cogent Economics and Finance</i> , 2016, 4, 1239672.	0.8	1
64	Enhanced seasonal CO ₂ exchange caused by amplified plant productivity in northern ecosystems. <i>Science</i> , 2016, 351, 696-699.	6.0	319
65	GROUND-BASED STATION NETWORK IN ARCTIC AND SUBARCTIC EURASIA: AN OVERVIEW. <i>Geography, Environment, Sustainability</i> , 2016, 9, 75-88.	0.6	9
66	Impacts of a decadal drainage disturbance on surface–atmosphere fluxes of carbon dioxide in a permafrost ecosystem. <i>Biogeosciences</i> , 2016, 13, 5315-5332.	1.3	15
67	The Amazon Tall Tower Observatory (ATTO): overview of pilot measurements on ecosystem ecology, meteorology, trace gases, and aerosols. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10723-10776.	1.9	218
68	Quantifying changes in climate variability and extremes: Pitfalls and their overcoming. <i>Geophysical Research Letters</i> , 2015, 42, 9990-9998.	1.5	64
69	Continuous measurements of greenhouse gases and atmospheric oxygen at the Namib Desert Atmospheric Observatory. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2233-2250.	1.2	12
70	Variability of ground CO ₂ concentration in the middle taiga subzone of the Yenisei region of Siberia. <i>Russian Journal of Ecology</i> , 2015, 46, 143-151.	0.3	6
71	Long-term trend in CO ₂ concentration in the surface atmosphere over Central Siberia. <i>Russian Meteorology and Hydrology</i> , 2015, 40, 186-190.	0.2	13
72	Temporal Variability of $\delta^{13}C$ and $\delta^{14}C$ Concentration in the Atmosphere of Middle Taiga Ecosystems of Siberia. <i>Izvestiya Rossiiskaya Akademii Nauk, Seriya Geograficheskaya</i> , 2015, , 112.	0.2	2

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73	Interannual sea-air CO ₂ flux variability from an observation-driven ocean mixed-layer scheme. <i>Biogeosciences</i> , 2014, 11, 4599-4613.	1.3	111
74	Current systematic carbon-cycle observations and the need for implementing a policy-relevant carbon observing system. <i>Biogeosciences</i> , 2014, 11, 3547-3602.	1.3	189
75	Inferences from CO ₂ and CH ₄ concentration profiles at the Zotino Tall Tower Observatory (ZOTTO) on regional summertime ecosystem fluxes. <i>Biogeosciences</i> , 2014, 11, 2055-2068.	1.3	22
76	Comment on "Carbon farming in hot, dry coastal areas: an option for climate change mitigation" by Becker et al. (2013). <i>Earth System Dynamics</i> , 2014, 5, 41-42.	2.7	1
77	A two-fold increase of carbon cycle sensitivity to tropical temperature variations. <i>Nature</i> , 2014, 506, 212-215.	13.7	284
78	Carbon and Other Biogeochemical Cycles. , 2014, , 465-570.		435
79	The BETHY/JSBACH Carbon Cycle Data Assimilation System: experiences and challenges. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2013, 118, 1414-1426.	1.3	86
80	Three decades of global methane sources and sinks. <i>Nature Geoscience</i> , 2013, 6, 813-823.	5.4	1,649
81	Arctic: Uncertainties in methane link. <i>Nature</i> , 2013, 500, 529-529.	13.7	2
82	Multidisciplinary Studies of the Global Carbon Cycle. <i>Eos</i> , 2013, 94, 426-426.	0.1	0
83	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.	1.9	54
84	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.	1.9	33
85	Climate sensitivity in the Anthropocene. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 1121-1131.	1.0	24
86	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.	1.3	42
87	Global surface-ocean and sea-air CO ₂ flux variability from an observation-driven ocean mixed-layer scheme. <i>Ocean Science</i> , 2013, 9, 193-216.	1.3	141
88	Technical Note: The Simple Diagnostic Photosynthesis and Respiration Model (SDPRM). <i>Biogeosciences</i> , 2013, 10, 6485-6508.	1.3	6
89	Validation of routine continuous airborne CO ₂ observations near the Bialystok Tall Tower. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 873-889.	1.2	15
90	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.	1.9	40

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91	Iconic CO ₂ Time Series at Risk. <i>Science</i> , 2012, 337, 1038-1040.	6.0	15
92	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
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.	1.9	87
94	Enigma of the recent methane budget. <i>Nature</i> , 2011, 476, 157-158.	13.7	64
95	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.	1.9	33
96	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.	1.4	97
97	European CO ₂ fluxes from atmospheric inversions using regional and global transport models. <i>Climatic Change</i> , 2010, 103, 93-115.	1.7	31
98	The carbon budget of the northern cryosphere region. <i>Current Opinion in Environmental Sustainability</i> , 2010, 2, 231-236.	3.1	61
99	Seven years of recent European net terrestrial carbon dioxide exchange constrained by atmospheric observations. <i>Global Change Biology</i> , 2010, 16, 1317-1337.	4.2	223
100	Characterization of ecosystem responses to climatic controls using artificial neural networks. <i>Global Change Biology</i> , 2010, 16, 2737-2749.	4.2	75
101	Interactions between nitrogen deposition, land cover conversion, and climate change determine the contemporary carbon balance of Europe. <i>Biogeosciences</i> , 2010, 7, 2749-2764.	1.3	53
102	Measurements of greenhouse gases and related tracers at Bialystok tall tower station in Poland. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 407-427.	1.2	60
103	Continuous low-maintenance CO ₂ /CH ₄ /H ₂ measurements at the Zotino Tall Tower Observatory (ZOTTO) in Central Siberia. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 1113-1128.	1.25	144
104	How Stable Is the Methane Cycle?. <i>Science</i> , 2010, 327, 1211-1212.	6.0	34
105	European CO ₂ fluxes from atmospheric inversions using regional and global transport models. , 2010, , 93-115.		6
106	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.	1.2	72
107	Reply to L. Kutzbach. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009, 61, 579-580.	0.8	0
108	Searching out the sinks. <i>Nature Geoscience</i> , 2009, 2, 3-4.	5.4	19

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109	Importance of methane and nitrous oxide for Europe's terrestrial greenhouse-gas balance. <i>Nature Geoscience</i> , 2009, 2, 842-850.	5.4	310
110	Old-Growth Forests: Function, Fate and Value – an Overview. <i>Ecological Studies</i> , 2009, , 3-10.	0.4	19
111	Old-Growth Forest Definitions: a Pragmatic View. <i>Ecological Studies</i> , 2009, , 11-33.	0.4	83
112	Sensitivity of the carbon cycle in the Arctic to climate change. <i>Ecological Monographs</i> , 2009, 79, 523-555.	2.4	814
113	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.	1.9	67
114	On observational and modelling strategies targeted at regional carbon exchange over continents. <i>Biogeosciences</i> , 2009, 6, 1949-1959.	1.3	55
115	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.	0.8	42
116	Terrestrial ecosystem carbon dynamics and climate feedbacks. <i>Nature</i> , 2008, 451, 289-292.	13.7	1,245
117	Modeling terrestrial ¹³ C cycling: Climate, land use and fire. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	1.9	30
118	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, .	1.9	43
119	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.	0.6	119
120	A framework for comparing remotely sensed and in-situ CO ₂ concentrations. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2555-2568.	1.9	18
121	Analyzing the causes and spatial pattern of the European 2003 carbon flux anomaly using seven models. <i>Biogeosciences</i> , 2008, 5, 561-583.	1.3	136
122	A Roadmap for a Continental-Scale Greenhouse Gas Observing System in Europe. <i>Ecological Studies</i> , 2008, , 377-386.	0.4	0
123	Weak Northern and Strong Tropical Land Carbon Uptake from Vertical Profiles of Atmospheric CO ₂ . <i>Science</i> , 2007, 316, 1732-1735.	6.0	775
124	Comprehensive comparison of gap-filling techniques for eddy covariance net carbon fluxes. <i>Agricultural and Forest Meteorology</i> , 2007, 147, 209-232.	1.9	744
125	Saturation of the Southern Ocean CO ₂ Sink Due to Recent Climate Change. <i>Science</i> , 2007, 316, 1735-1738.	6.0	779
126	Uncertainties of modeling gross primary productivity over Europe: A systematic study on the effects of using different drivers and terrestrial biosphere models. <i>Global Biogeochemical Cycles</i> , 2007, 21, .	1.9	163

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127	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
128	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.	4.2	486
129	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.	1.9	417
130	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, .	1.5	40
131	Insights from simulations with high-resolution transport and process models on sampling of the atmosphere for constraining midlatitude land carbon sinks. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	20
132	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
133	Satellite cartography of atmospheric methane from SCIAMACHY on board ENVISAT: Analysis of the years 2003 and 2004. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	182
134	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.	1.9	143
135	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.	1.9	43
136	Reconciling Carbon-cycle Concepts, Terminology, and Methods. <i>Ecosystems</i> , 2006, 9, 1041-1050.	1.6	904
137	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.	1.9	2
138	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.	1.9	238
139	Carbon monoxide, methane and carbon dioxide columns retrieved from SCIAMACHY by WFM-DOAS: year 2003 initial data set. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 3313-3329.	1.9	162
140	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
141	Model-data synthesis in terrestrial carbon observation: methods, data requirements and data uncertainty specifications. <i>Global Change Biology</i> , 2005, 11, 378-397.	4.2	283
142	Charles David Keeling 1928â€“2005. <i>Nature</i> , 2005, 437, 331-331.	13.7	24
143	The carbon budget of terrestrial ecosystems at country-scale â€“ a European case study. <i>Biogeosciences</i> , 2005, 2, 15-26.	1.3	178
144	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.	1.5	99

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145	Quantifying, Understanding and Managing the Carbon Cycle in the Next Decades. <i>Climatic Change</i> , 2004, 67, 147-160.	1.7	33
146	A model of the Earth's Dole effect. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	1.9	79
147	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.	1.9	312
148	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.	1.9	139
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