

Martin Heimann

List of Publications by Year in descending order

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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	Modelling the long-range transport of CO_2 and CH_4 to subantarctic and antarctic areas. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 42, 83.	1.6	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.	1.6	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.	1.6	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.	1.6	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.	1.6	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.	1.6	105
7	Two decades of ocean CO_2 sink and variability. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 55, 649.	1.6	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.	1.6	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.	1.6	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.	1.6	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.	9.5	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.	1.6	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.	1.6	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.	3.3	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.	4.9	9
16	Integrating the evidence for a terrestrial carbon sink caused by increasing atmospheric CO_2 . <i>New Phytologist</i> , 2021, 229, 2413-2445.	7.3	286
17	The climate benefit of carbon sequestration. <i>Biogeosciences</i> , 2021, 18, 1029-1048.	3.3	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.	0.9	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.	2.3	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.	9.9	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.	2.3	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.	4.8	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.	4.0	19
24	Causes of slowing down seasonal CO ₂ amplitude at Mauna Loa. <i>Global Change Biology</i> , 2020, 26, 4462-4477.	9.5	14
25	Marine Nitrous Oxide Emissions From Three Eastern Boundary Upwelling Systems Inferred From Atmospheric Observations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087822.	4.0	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.	3.3	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.	3.6	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.	9.5	27
29	Negative feedback processes following drainage slow down permafrost degradation. <i>Global Change Biology</i> , 2019, 25, 3254-3266.	9.5	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.	3.2	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.	3.3	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.	3.3	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.	0.3	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.	3.1	4
35	Influence of the underlying surface on greenhouse gas concentrations in the atmosphere over Central Siberia.., 2019, 3, .	0.1	0
36	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

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37	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
38	Atmospheric CO ₂ inversions on the mesoscale using data-driven prior uncertainties: quantification of the European terrestrial CO ₂ fluxes. Atmospheric Chemistry and Physics, 2018, 18, 3047-3064.	4.9	30
39	Direct effect of aerosols on solar radiation and gross primary production in boreal and hemiboreal forests. Atmospheric Chemistry and Physics, 2018, 18, 17863-17881.	4.9	50
40	History of El Niño impacts on the global carbon cycle 1957–2017: a quantification from atmospheric CO ₂ data. Philosophical Transactions of the Royal Society B: Biological Sciences, 2018, 373, 20170303.	4.0	42
41	How does the terrestrial carbon exchange respond to inter-annual climatic variations? A quantification based on atmospheric CO ₂ data. Biogeosciences, 2018, 15, 2481-2498.	3.3	68
42	COCAP: a carbon dioxide analyser for small unmanned aircraft systems. Atmospheric Measurement Techniques, 2018, 11, 1833-1849.	3.1	22
43	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
44	Early snowmelt significantly enhances boreal springtime carbon uptake. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 11081-11086.	7.1	84
45	High-quality eddy covariance CO ₂ budgets under cold climate conditions. Journal of Geophysical Research G: Biogeosciences, 2017, 122, 2064-2084.	3.0	28
46	Warming effects on the urban hydrology in cold climate regions. Scientific Reports, 2017, 7, 5833.	3.3	20
47	Contrasting and interacting changes in simulated spring and summer carbon cycle extremes in European ecosystems. Environmental Research Letters, 2017, 12, 075006.	5.2	32
48	Plants, microorganisms, and soil temperatures contribute to a decrease in methane fluxes on a drained Arctic floodplain. Global Change Biology, 2017, 23, 2396-2412.	9.5	54
49	Long-term measurements (2010–2014) of carbonaceous aerosol and carbon monoxide at the Zotino Tall Tower Observatory (ZOTTO) in central Siberia. Atmospheric Chemistry and Physics, 2017, 17, 14365-14392.	4.9	33
50	Long-Term Drainage Reduces CO ₂ Uptake and CH ₄ Emissions in a Siberian Permafrost Ecosystem. Global Biogeochemical Cycles, 2017, 31, 1704-1717.	4.9	36
51	Global inverse modeling of CH ₄ sources and sinks: an overview of methods. Atmospheric Chemistry and Physics, 2017, 17, 235-256.	4.9	75
52	HIMMELI v1.0: Helsinki Model of Methane build-up and emission for peatlands. Geoscientific Model Development, 2017, 10, 4665-4691.	3.6	24
53	Shifted energy fluxes, increased Bowen ratios, and reduced thaw depths linked with drainage-induced changes in permafrost ecosystem structure. Cryosphere, 2017, 11, 2975-2996.	3.9	34
54	MERLIN: A French-German Space Lidar Mission Dedicated to Atmospheric Methane. Remote Sensing, 2017, 9, 1052.	4.0	88

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55	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.	4.9	22
56	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
57	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
58	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
59	A novel bias correction methodology for climate impact simulations. <i>Earth System Dynamics</i> , 2016, 7, 71-88.	7.1	75
60	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.	0.9	9
61	Observation and integrated Earth-system science: A roadmap for 2016–2025. <i>Advances in Space Research</i> , 2016, 57, 2037-2103.	2.6	35
62	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
63	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.	0.3	5
64	The benefits of investing into improved carbon flux monitoring. <i>Cogent Economics and Finance</i> , 2016, 4, 1239672.	2.1	1
65	Enhanced seasonal CO ₂ exchange caused by amplified plant productivity in northern ecosystems. <i>Science</i> , 2016, 351, 696-699.	12.6	319
66	GROUND-BASED STATION NETWORK IN ARCTIC AND SUBARCTIC EURASIA: AN OVERVIEW. <i>Geography, Environment, Sustainability</i> , 2016, 9, 75-88.	1.3	9
67	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
68	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.	4.9	218
69	Quantifying changes in climate variability and extremes: Pitfalls and their overcoming. <i>Geophysical Research Letters</i> , 2015, 42, 9990-9998.	4.0	64
70	Continuous measurements of greenhouse gases and atmospheric oxygen at the Namib Desert Atmospheric Observatory. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 2233-2250.	3.1	12
71	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.	0.9	6
72	Long-term trend in CO ₂ concentration in the surface atmosphere over Central Siberia. <i>Russian Meteorology and Hydrology</i> , 2015, 40, 186-190.	1.3	13

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73	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
74	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
75	Current systematic carbon-cycle observations and the need for implementing a policy-relevant carbon observing system. <i>Biogeosciences</i> , 2014, 11, 3547-3602.	3.3	189
76	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.	3.3	22
77	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.	7.1	1
78	A two-fold increase of carbon cycle sensitivity to tropical temperature variations. <i>Nature</i> , 2014, 506, 212-215.	27.8	284
79	Carbon and Other Biogeochemical Cycles. , 2014, , 465-570.		435
80	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
81	Three decades of global methane sources and sinks. <i>Nature Geoscience</i> , 2013, 6, 813-823.	12.9	1,649
82	Arctic: Uncertainties in methane link. <i>Nature</i> , 2013, 500, 529-529.	27.8	2
83	Multidisciplinary Studies of the Global Carbon Cycle. <i>Eos</i> , 2013, 94, 426-426.	0.1	0
84	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
85	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
86	Climate sensitivity in the Anthropocene. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2013, 139, 1121-1131.	2.7	24
87	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
88	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
89	Technical Note: The Simple Diagnostic Photosynthesis and Respiration Model (SDPRM). <i>Biogeosciences</i> , 2013, 10, 6485-6508.	3.3	6
90	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

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91	Comparing Lagrangian and Eulerian models for CO ₂ transport – a step towards Bayesian inverse modeling using WRF/STILT-VPRM. Atmospheric Chemistry and Physics, 2012, 12, 8979-8991.	4.9	40
92	Iconic CO ₂ Time Series at Risk. Science, 2012, 337, 1038-1040.	12.6	15
93	Assessment of the regional atmospheric impact of wildfire emissions based on CO observations at the ZOTTO tall tower station in central Siberia. Journal of Geophysical Research, 2011, 116, .	3.3	29
94	Importance of fossil fuel emission uncertainties over Europe for CO ₂ modeling: model intercomparison. Atmospheric Chemistry and Physics, 2011, 11, 6607-6622.	4.9	87
95	Enigma of the recent methane budget. Nature, 2011, 476, 157-158.	27.8	64
96	Technical Note: A new coupled system for global-to-regional downscaling of CO ₂ concentration estimation. Atmospheric Chemistry and Physics, 2010, 10, 3205-3213.	4.9	33
97	Seasonal characteristics of tropical marine boundary layer air measured at the Cape Verde Atmospheric Observatory. Journal of Atmospheric Chemistry, 2010, 67, 87-140.	3.2	97
98	European CO ₂ fluxes from atmospheric inversions using regional and global transport models. Climatic Change, 2010, 103, 93-115.	3.6	31
99	The carbon budget of the northern cryosphere region. Current Opinion in Environmental Sustainability, 2010, 2, 231-236.	6.3	61
100	Seven years of recent European net terrestrial carbon dioxide exchange constrained by atmospheric observations. Global Change Biology, 2010, 16, 1317-1337.	9.5	223
101	Characterization of ecosystem responses to climatic controls using artificial neural networks. Global Change Biology, 2010, 16, 2737-2749.	9.5	75
102	Interactions between nitrogen deposition, land cover conversion, and climate change determine the contemporary carbon balance of Europe. Biogeosciences, 2010, 7, 2749-2764.	3.3	53
103	Measurements of greenhouse gases and related tracers at Bialystok tall tower station in Poland. Atmospheric Measurement Techniques, 2010, 3, 407-427.	3.1	60
104	Continuous low-maintenance CO ₂ /CH ₄ /H ₂ measurements at the Zotino Tall Tower Observatory (ZOTTO) in Central Siberia. Atmospheric Measurement Techniques, 2010, 3, 1113-1128.	3.1	144
105	How Stable Is the Methane Cycle?. Science, 2010, 327, 1211-1212.	12.6	34
106	European CO ₂ fluxes from atmospheric inversions using regional and global transport models. , 2010, , 93-115.		6
107	In-situ measurements of oxygen, carbon monoxide and greenhouse gases from Ochsenkopf tall tower in Germany. Atmospheric Measurement Techniques, 2009, 2, 573-591.	3.1	72
108	Reply to L. Kutzbach. Tellus, Series B: Chemical and Physical Meteorology, 2009, 61, 579-580.	1.6	0

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109	Searching out the sinks. <i>Nature Geoscience</i> , 2009, 2, 3-4.	12.9	19
110	Importance of methane and nitrous oxide for Europe's terrestrial greenhouse-gas balance. <i>Nature Geoscience</i> , 2009, 2, 842-850.	12.9	310
111	Old-Growth Forests: Function, Fate and Value – an Overview. <i>Ecological Studies</i> , 2009, , 3-10.	1.2	19
112	Old-Growth Forest Definitions: a Pragmatic View. <i>Ecological Studies</i> , 2009, , 11-33.	1.2	83
113	Sensitivity of the carbon cycle in the Arctic to climate change. <i>Ecological Monographs</i> , 2009, 79, 523-555.	5.4	814
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	On observational and modelling strategies targeted at regional carbon exchange over continents. <i>Biogeosciences</i> , 2009, 6, 1949-1959.	3.3	55
116	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
117	Terrestrial ecosystem carbon dynamics and climate feedbacks. <i>Nature</i> , 2008, 451, 289-292.	27.8	1,245
118	Modeling terrestrial ¹³ C cycling: Climate, land use and fire. <i>Global Biogeochemical Cycles</i> , 2008, 22, .	4.9	30
119	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
120	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
121	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
122	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
123	A Roadmap for a Continental-Scale Greenhouse Gas Observing System in Europe. <i>Ecological Studies</i> , 2008, , 377-386.	1.2	0
124	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
125	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
126	Saturation of the Southern Ocean CO ₂ Sink Due to Recent Climate Change. <i>Science</i> , 2007, 316, 1735-1738.	12.6	779

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127	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, .	4.9	163
128	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
129	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
130	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
131	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
132	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
133	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
134	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
135	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
136	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
137	Reconciling Carbon-cycle Concepts, Terminology, and Methods. <i>Ecosystems</i> , 2006, 9, 1041-1050.	3.4	904
138	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	2
139	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
140	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.	4.9	162
141	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
142	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
143	Charles David Keeling 1928–2005. <i>Nature</i> , 2005, 437, 331-331.	27.8	24
144	The carbon budget of terrestrial ecosystems at country-scale – a European case study. <i>Biogeosciences</i> , 2005, 2, 15-26.	3.3	178

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145	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
146	Quantifying, Understanding and Managing the Carbon Cycle in the Next Decades. <i>Climatic Change</i> , 2004, 67, 147-160.	3.6	33
147	A model of the Earth's Dole effect. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	4.9	79
148	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
149	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
150	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
151	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
152	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
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