

Peter J Rayner

List of Publications by Year in descending order

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137
papers

15,093
citations

44042

48
h-index

22808

112
g-index

209
all docs

209
docs citations

209
times ranked

11685
citing authors

#	ARTICLE	IF	CITATIONS
1	Climateâ€™Carbon Cycle Feedback Analysis: Results from the C4MIP Model Intercomparison. <i>Journal of Climate</i> , 2006, 19, 3337-3353.	1.2	2,647
2	Recent patterns and mechanisms of carbon exchange by terrestrial ecosystems. <i>Nature</i> , 2001, 414, 169-172.	13.7	1,162
3	Towards robust regional estimates of CO2 sources and sinks using atmospheric transport models. <i>Nature</i> , 2002, 415, 626-630.	13.7	1,157
4	The Orbiting Carbon Observatory (OCO) mission. <i>Advances in Space Research</i> , 2004, 34, 700-709.	1.2	596
5	The shared socio-economic pathway (SSP) greenhouse gas concentrations and their extensions to 2500. <i>Geoscientific Model Development</i> , 2020, 13, 3571-3605.	1.3	539
6	The utility of remotely sensed CO2concentration data in surface source inversions. <i>Geophysical Research Letters</i> , 2001, 28, 175-178.	1.5	444
7	Global atmospheric carbon budget: results from an ensemble of atmospheric CO<sub>2</sub> inversions. <i>Biogeosciences</i> , 2013, 10, 6699-6720.	1.3	356
8	Historical greenhouse gas concentrations for climate modelling (CMIP6). <i>Geoscientific Model Development</i> , 2017, 10, 2057-2116.	1.3	350
9	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
10	Contribution of the Orbiting Carbon Observatory to the estimation of CO2sources and sinks: Theoretical study in a variational data assimilation framework. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	301
11	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
12	A synthesis of carbon dioxide emissions from fossil-fuel combustion. <i>Biogeosciences</i> , 2012, 9, 1845-1871.	1.3	271
13	Two decades of terrestrial carbon fluxes from a carbon cycle data assimilation system (CCDAS). <i>Global Biogeochemical Cycles</i> , 2005, 19, n/a-n/a.	1.9	261
14	TOWARD A MONITORING AND FORECASTING SYSTEM FOR ATMOSPHERIC COMPOSITION. <i>Bulletin of the American Meteorological Society</i> , 2008, 89, 1147-1164.	1.7	253
15	Reconstructing the recent carbon cycle from atmospheric CO2, delta13C and O2/N2 observations*. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999, 51, 213-232.	0.8	245
16	On aggregation errors in atmospheric transport inversions. <i>Journal of Geophysical Research</i> , 2001, 106, 4703-4715.	3.3	235
17	TransCom 3 CO2 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.	0.8	235
18	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

#	ARTICLE	IF	CITATIONS
19	Reconstructing the recent carbon cycle from atmospheric CO ₂ , CH ₄ and O ₂ /N ₂ observations*. Tellus, Series B: Chemical and Physical Meteorology, 2022, 51, 213.	0.8	187
20	Variations in modeled atmospheric transport of carbon dioxide and the consequences for CO ₂ inversions. Global Biogeochemical Cycles, 1996, 10, 783-796.	1.9	155
21	Multiple constraints on regional CO ₂ flux variations over land and oceans. Global Biogeochemical Cycles, 2005, 19, .	1.9	154
22	A new global gridded data set of CO ₂ emissions from fossil fuel combustion: Methodology and evaluation. Journal of Geophysical Research, 2010, 115, .	3.3	144
23	Daily CO ₂ flux estimates over Europe from continuous atmospheric measurements: 1, inverse methodology. Atmospheric Chemistry and Physics, 2005, 5, 3173-3186.	1.9	139
24	Regional variations in spatial structure of nightlights, population density and fossil-fuel CO ₂ emissions. Energy Policy, 2010, 38, 4756-4764.	4.2	126
25	A multiyear, global gridded fossil fuel CO ₂ emission data product: Evaluation and analysis of results. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,213.	1.2	121
26	Evaluation of various observing systems for the global monitoring of CO ₂ surface fluxes. Atmospheric Chemistry and Physics, 2010, 10, 10503-10520.	1.9	112
27	Assimilating atmospheric data into a terrestrial biosphere model: A case study of the seasonal cycle. Global Biogeochemical Cycles, 2002, 16, 14-1-14-16.	1.9	111
28	Interannual variability of the global carbon cycle (1992–2005) inferred by inversion of atmospheric CO ₂ and ¹³ CO ₂ measurements. Global Biogeochemical Cycles, 2008, 22, .	1.9	108
29	On the use of ¹⁴ CO ₂ as a tracer for fossil fuel CO ₂ : Quantifying uncertainties using an atmospheric transport model. Journal of Geophysical Research, 2009, 114, .	3.3	107
30	TransCom 3 CO ₂ inversion intercomparison: 1. Annual mean control results and sensitivity to transport and prior flux information. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 555.	0.8	105
31	Three-dimensional transport and concentration of SF ₆ . A model intercomparison study (TransCom 2). Tellus, Series B: Chemical and Physical Meteorology, 1999, 51, 266-297.	0.8	101
32	Using high temporal frequency data for CO ₂ inversions. Global Biogeochemical Cycles, 2002, 16, 1-1.	1.9	98
33	Interannual variations in continental-scale net carbon exchange and sensitivity to observing networks estimated from atmospheric CO ₂ inversions for the period 1980 to 2005. Global Biogeochemical Cycles, 2008, 22, .	1.9	96
34	Two decades of ocean CO ₂ sink and variability. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 649-656.	0.8	92
35	Mesoscale inversion: first results from the CERES campaign with synthetic data. Atmospheric Chemistry and Physics, 2008, 8, 3459-3471.	1.9	91
36	Global observations of the carbon budget, 2, CO ₂ column from differential absorption of reflected sunlight in the 1.61 μm band of CO ₂ . Journal of Geophysical Research, 2002, 107, ACH 6-1.	3.3	90

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	The relationship between tropical CO ₂ fluxes and the El Niño-Southern Oscillation. <i>Geophysical Research Letters</i> , 1999, 26, 493-496.	1.5	83
40	OptIC project: An intercomparison of optimization techniques for parameter estimation in terrestrial biogeochemical models. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	82
41	Structure of the transport uncertainty in mesoscale inversions of CO ₂ sources and sinks using ensemble model simulations. <i>Biogeosciences</i> , 2009, 6, 1089-1102.	1.3	82
42	Investigating the usefulness of satellite-derived fluorescence data in inferring gross primary productivity within the carbon cycle data assimilation system. <i>Biogeosciences</i> , 2015, 12, 4067-4084.	1.3	80
43	Carbon flux bias estimation employing Maximum Likelihood Ensemble Filter (MLEF). <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	78
44	On the impact of transport model errors for the estimation of CO ₂ surface fluxes from GOSAT observations. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	72
45	A new stepwise carbon cycle data assimilation system using multiple data streams to constrain the simulated land surface carbon cycle. <i>Geoscientific Model Development</i> , 2016, 9, 3321-3346.	1.3	67
46	The Potential of the Geostationary Carbon Cycle Observatory (GeoCarb) to Provide Multi-scale Constraints on the Carbon Cycle in the Americas. <i>Frontiers in Environmental Science</i> , 2018, 6, .	1.5	60
47	Atmospheric constraints on gross primary productivity and net ecosystem productivity: Results from a carbon cycle data assimilation system. <i>Global Biogeochemical Cycles</i> , 2012, 26, .	1.9	59
48	The relationship between peak warming and cumulative CO ₂ emissions, and its use to quantify vulnerabilities in the carbon-climate-human system. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 63, 145.	0.8	58
49	A European summertime CO ₂ biogenic flux inversion at mesoscale from continuous in situ mixing ratio measurements. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	57
50	Estimating global gross primary productivity using chlorophyll fluorescence and a data assimilation system with the BETHY-SCOPE model. <i>Biogeosciences</i> , 2019, 16, 3069-3093.	1.3	57
51	Optimal representation of source-sink fluxes for mesoscale carbon dioxide inversion with synthetic data. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	56
52	Reconstructing atmospheric histories from measurements of air composition in firn. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 15-1.	3.3	54
53	Correlations among leaf traits provide a significant constraint on the estimate of global gross primary production. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	54
54	AIRS-based versus flask-based estimation of carbon surface fluxes. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	52

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55	Uncertainty in temperature projections reduced using carbon cycle and climate observations. <i>Nature Climate Change</i> , 2013, 3, 725-729.	8.1	52
56	Long-term variability in the global carbon cycle inferred from a high-precision CO ₂ and δ ¹³ C ice-core record. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 51, 233.	0.8	48
57	Optimizing the CO ₂ observing network for constraining sources and sinks. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1996, 48, 433-444.	0.8	46
58	Bridging the gap between atmospheric concentrations and local ecosystem measurements. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	46
59	Constraining regional greenhouse gas emissions using geostationary concentration measurements: a theoretical study. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3285-3293.	1.2	46
60	What can we learn from European continuous atmospheric CO ₂ measurements to quantify regional fluxes – Part 2: Sensitivity of flux accuracy to inverse setup. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3119-3129.	1.9	43
61	Long-term variability in the global carbon cycle inferred from a high-precision CO ₂ and δ ¹³ C ice-core record. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1999, 51, 233-248.	0.8	42
62	Assimilating solar-induced chlorophyll fluorescence into the terrestrial biosphere model BETHY-SCOPE v1.0: model description and information content. <i>Geoscientific Model Development</i> , 2018, 11, 1517-1536.	1.3	42
63	Optimizing the CO ₂ observing network for constraining sources and sinks. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 48, 433.	0.8	41
64	Atmospheric CO ₂ inversion validation using vertical profile measurements: Analysis of four independent inversion models. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	41
65	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
66	What can we learn from European continuous atmospheric CO ₂ measurements to quantify regional fluxes – Part 1: Potential of the 2001 network. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 3107-3117.	1.9	40
67	Low atmospheric CO ₂ levels during the Little Ice Age due to cooling-induced terrestrial uptake. <i>Nature Geoscience</i> , 2016, 9, 691-694.	5.4	40
68	Global observations of the carbon budget 3. Initial assessment of the impact of satellite orbit, scan geometry, and cloud on measuring CO ₂ from space. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 2-1-ACH 2-7.	3.3	39
69	Potential of a geostationary geoCARB mission to estimate surface emissions of CO ₂ , CH ₄ and CO in a polluted urban environment: case study Shanghai. <i>Atmospheric Measurement Techniques</i> , 2016, 9, Atmospheric abundance and global emissions of perfluorocarbons	1.2	38
70	CF ₄ , C ₂ F ₆ and C ₃ F ₈ since 1800 inferred from ice core, firn, air archive and in situ measurements. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 11733-11754.	1.9	35
71	The current state of carbon-cycle data assimilation. <i>Current Opinion in Environmental Sustainability</i> , 2010, 2, 289-296.	3.1	34
72	Joint assimilation of eddy covariance flux measurements and FAPAR products over temperate forests within a process-oriented biosphere model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2015, 120, 1839-1857.	1.3	34

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73	Kalman filter analysis of ice core data 2. Double deconvolution of CO ₂ and $\delta^{13}\text{C}$ measurements. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 5-1.	3.3	33
74	A global analysis of urban design types and road transport injury: an image processing study. <i>Lancet Planetary Health</i> , The, 2020, 4, e32-e42.	5.1	32
75	Observing the continental-scale carbon balance: assessment of sampling complementarity and redundancy in a terrestrial assimilation system by means of quantitative network design. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7867-7879.	1.9	31
76	Fundamentals of data assimilation applied to biogeochemistry. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 13911-13932.	1.9	31
77	Using the Kalman filter for parameter estimation in biogeochemical models. <i>Environmetrics</i> , 2008, 19, 849-870.	0.6	30
78	Carbon Cycle Uncertainty in REgional Carbon Cycle Assessment and Processes (RECCAP). <i>Biogeosciences</i> , 2012, 9, 2889-2904.	1.3	30
79	Dominant regions and drivers of the variability of the global land carbon sink across timescales. <i>Global Change Biology</i> , 2018, 24, 3954-3968.	4.2	30
80	A Clean Air Plan for Sydney: An Overview of the Special Issue on Air Quality in New South Wales. <i>Atmosphere</i> , 2019, 10, 774.	1.0	29
81	Title is missing!. <i>Climatic Change</i> , 2002, 55, 273-285.	1.7	28
82	Data and modelling requirements for CO ₂ inversions using high-frequency data. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 512-521.	0.8	27
83	Tangent linear and adjoint biogeochemical models. <i>Geophysical Monograph Series</i> , 2000, , 33-48.	0.1	26
84	Green's function methods of tracer inversion. <i>Geophysical Monograph Series</i> , 2000, , 19-31.	0.1	26
85	Inversion of diurnally varying synthetic CO ₂ : Network optimization for an Australian test case. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a.	1.9	25
86	Simultaneous mass balance inverse modeling of methane and carbon monoxide. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	25
87	How well do different tracers constrain the firm diffusivity profile?. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1485-1510.	1.9	25
88	Greenhouse gas network design using backward Lagrangian particle dispersion modelling " Part 2: Sensitivity analyses and South African test case. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 2051-2069.	1.9	25
89	Hot Summers: Effect of Extreme Temperatures on Ozone in Sydney, Australia. <i>Atmosphere</i> , 2018, 9, 466.	1.0	25
90	A Road Map for Improving the Treatment of Uncertainties in High-Resolution Regional Carbon Flux Inverse Estimates. <i>Geophysical Research Letters</i> , 2019, 46, 13461-13469.	1.5	23

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91	Constraining predictions of the carbon cycle using data. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 1955-1966.	1.6	22
92	Greenhouse gas network design using backward Lagrangian particle dispersion modelling â Part 1: Methodology and Australian test case. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 9363-9378.	1.9	22
93	Estimates of CO ₂ fluxes over the city of Cape Town, South Africa, through Bayesian inverse modelling. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4765-4801.	1.9	22
94	Two decades of ocean CO ₂ sink and variability. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 55, 649.	0.8	20
95	Impacts of seasonal covariance on CO ₂ inversions. <i>Global Biogeochemical Cycles</i> , 1999, 13, 845-856.	1.9	19
96	A three-dimensional synthesis inversion of the molecular hydrogen cycle: Sources and sinks budget and implications for the soil uptake. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	19
97	Estimating bacteria emissions from inversion of atmospheric transport: sensitivity to modelled particle characteristics. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5473-5488.	1.9	19
98	An Example of an Automatic Differentiation-Based Modelling System. <i>Lecture Notes in Computer Science</i> , 2003, , 95-104.	1.0	19
99	Linear and nonlinear effects of dominant drivers on the trends in global and regional land carbon uptake: 1959 to 2013. <i>Geophysical Research Letters</i> , 2016, 43, 1607-1614.	1.5	18
100	Combining Measurements of Built-up Area, Nighttime Light, and Travel Time Distance for Detecting Changes in Urban Boundaries: Introducing the BUNTUS Algorithm. <i>Remote Sensing</i> , 2019, 11, 2969.	1.8	17
101	Mass balance inverse modelling of methane in the 1990s using a Chemistry Transport Model. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 2561-2580.	1.9	16
102	Quantifying the constraint of biospheric process parameters by CO ₂ concentration and flux measurement networks through a carbon cycle data assimilation system. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 10555-10572.	1.9	16
103	Evaluation of Regional Air Quality Models over Sydney, Australia: Part 2, Comparison of PM _{2.5} and Ozone. <i>Atmosphere</i> , 2020, 11, 233.	1.0	15
104	Differences of CO ₂ flux estimates based on a âTime-Independentâ versus a âTime-[ln]Dependentâ inversion method. <i>Geophysical Monograph Series</i> , 2000, , 295-309.	0.1	14
105	Local and remote response to zonally uniform sea-surface temperature in a July general circulation model. <i>International Journal of Climatology</i> , 1989, 9, 111-131.	1.5	12
106	Estimating High Latitude Carbon Fluxes With Inversions Of Atmospheric CO ₂ . <i>Mitigation and Adaptation Strategies for Global Change</i> , 2006, 11, 769-782.	1.0	12
107	Impact of the atmospheric sink and vertical mixing on nitrous oxide fluxes estimated using inversion methods. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	12
108	Assimilation and Network Design. <i>Ecological Studies</i> , 2008, , 33-52.	0.4	12

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109	Progress in development of Tropospheric Infrared Mapping Spectrometers (TIMS): GeoCARB Greenhouse Gas (GHG) application. Proceedings of SPIE, 2013, , .	0.8	11
110	The potential of Orbiting Carbon Observatory-2 data to reduce the uncertainties in CO ₂ surface fluxes over Australia using a variational assimilation scheme. Atmospheric Chemistry and Physics, 2020, 20, 8473-8500.	1.9	11
111	Designing optimal greenhouse gas monitoring networks for Australia. Geoscientific Instrumentation, Methods and Data Systems, 2016, 5, 1-15.	0.6	11
112	Kalman filter analysis of ice core data 1. Method development and testing the statistics. Journal of Geophysical Research, 2002, 107, ACH 4-1.	3.3	10
113	On the variation of regional CO ₂ exchange over temperate and boreal North America. Global Biogeochemical Cycles, 2013, 27, 991-1000.	1.9	10
114	Sensitivity of simulated CO ₂ concentration to regridding of global fossil fuel CO ₂ emissions. Geoscientific Model Development, 2014, 7, 2867-2874.	1.3	9
115	Sensitivity of simulated CO ₂ concentration to sub-annual variations in fossil fuel CO ₂ emissions. Atmospheric Chemistry and Physics, 2016, 16, 1907-1918.	1.9	9
116	Reviews and syntheses: guiding the evolution of the observing system for the carbon cycle through quantitative network design. Biogeosciences, 2017, 14, 4755-4766.	1.3	9
117	Recent changes in the global and regional carbon cycle: analysis of first-order diagnostics. Biogeosciences, 2015, 12, 835-844.	1.3	8
118	The impact of filtering self-organizing maps: a case study with Australian pressure and rainfall. International Journal of Climatology, 2015, 35, 624-633.	1.5	8
119	Was Australia a sink or source of CO ₂ in 2015? Data assimilation using OCO-2 satellite measurements. Atmospheric Chemistry and Physics, 2021, 21, 17453-17494.	1.9	8
120	Can we detect regional methane anomalies? A comparison between three observing systems. Atmospheric Chemistry and Physics, 2016, 16, 9089-9108.	1.9	7
121	Optimising the deployment of renewable resources for the Australian NEM (National Electricity) Tj ETQq1 1 0.784314 rgBT /Qverlock	4.5	7
122	An atmospheric inversion over the city of Cape Town: sensitivity analyses. Atmospheric Chemistry and Physics, 2019, 19, 7789-7816.	1.9	7
123	Estimation theory and atmospheric data assimilation. Geophysical Monograph Series, 2000, , 49-65.	0.1	6
124	How do carbon cycle uncertainties affect IPCC temperature projections?. Atmospheric Science Letters, 2016, 17, 236-242.	0.8	6
125	Causal knowledge promotes behavioral self-regulation: An example using climate change dynamics. PLoS ONE, 2017, 12, e0184480.	1.1	6
126	Comparison of the genetic algorithm and incremental optimisation routines for a Bayesian inverse modelling based network design. Inverse Problems, 2018, 34, 055006.	1.0	6

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127	Tracer assimilation. Geophysical Monograph Series, 2000, , 67-79.	0.1	5
128	Data and modelling requirements for CO2 inversions using high-frequency data. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 512-521.	0.8	5
129	Impacts of atmospheric state uncertainty on O ₂ measurement requirements for the ASCENDS mission. Atmospheric Measurement Techniques, 2015, 8, 2685-2697.	1.2	5
130	Multi-species chemical data assimilation with the Danish Eulerian hemispheric model: system description and verification. Journal of Atmospheric Chemistry, 2016, 73, 261-302.	1.4	5
131	A small climate-amplifying effect of climate-carbon cycle feedback. Nature Communications, 2021, 12, 2952.	5.8	5
132	Assimilation of atmospheric CO2 observations from space can support national CO2 emission inventories. Environmental Research Letters, 0, , .	2.2	5
133	Interannual variability in the Australian carbon cycle over 2015–2019, based on assimilation of Orbiting Carbon Observatory-2 (OCO-2) satellite data. Atmospheric Chemistry and Physics, 2022, 22, 8897-8934.	1.9	5
134	Atmospheric Perspectives on the Ocean Carbon Cycle. , 2001, , 285-294.		4
135	Greenhouse Gas Concentration and Volcanic Eruptions Controlled the Variability of Terrestrial Carbon Uptake Over the Last Millennium. Journal of Advances in Modeling Earth Systems, 2019, 11, 1715-1734.	1.3	3
136	Data assimilation using an ensemble of models: a hierarchical approach. Atmospheric Chemistry and Physics, 2020, 20, 3725-3737.	1.9	3
137	Assessing the Impact of Atmospheric CO2 and NO2 Measurements From Space on Estimating City-Scale Fossil Fuel CO2 Emissions in a Data Assimilation System. Frontiers in Remote Sensing, 2022, 3, .	1.3	1