

Toshinobu Machida

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8766576/publications.pdf>

Version: 2024-02-01

151
papers

8,884
citations

81900

39
h-index

54911

84
g-index

182
all docs

182
docs citations

182
times ranked

7371
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon dioxide variations in the stratosphere over Japan, Scandinavia and Antarctica. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 55, 178.	1.6	9
2	Continuous measurements of methane from a tower network over Siberia. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 62, 403.	1.6	83
3	Relative contribution of transport/surface flux to the seasonal vertical synoptic CO ₂ variability in the troposphere over Narita. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 64, 19138.	1.6	14
4	Annual variation of CH ₄ emissions from the middle taiga in West Siberian Lowland (2005–2009): a case of high CH ₄ flux and precipitation rate in the summer of 2007. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 64, 17514.	1.6	19
5	ENSO-related variability in latitudinal distribution of annual mean atmospheric potential oxygen (APO) in the equatorial Western Pacific. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 67, 25869.	1.6	12
6	Effect of recent observations on Asian CO ₂ flux estimates by transport model inversions. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 55, 522.	1.6	16
7	Spatio-temporal variations of the atmospheric greenhouse gases and their sources and sinks in the Arctic region. <i>Polar Science</i> , 2021, 27, 100553.	1.2	6
8	Technical note: A high-resolution inverse modelling technique for estimating surface CO ₂ fluxes based on the NIES-TM FLEXPART coupled transport model and its adjoint. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1245-1266.	4.9	23
9	Seasonal Variations of SF ₆ , CO ₂ , CH ₄ , and N ₂ O in the UT/LS Region due to Emissions, Transport, and Chemistry. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033541.	3.3	13
10	New approach to evaluate satellite-derived XCO ₂ over oceans by integrating ship and aircraft observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 8255-8271.	4.9	8
11	Estimation of fire-induced carbon emissions from Equatorial Asia in 2015 using in situ aircraft and ship observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 9455-9473.	4.9	5
12	Measurement report: Regional characteristics of seasonal and long-term variations in greenhouse gases at Nainital, India, and Comilla, Bangladesh. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16427-16452.	4.9	10
13	Detection of fossil-fuel CO ₂ plume in China due to COVID-19 by observation at Hateruma. <i>Scientific Reports</i> , 2020, 10, 18688.	3.3	22
14	Siberian and temperate ecosystems shape Northern Hemisphere atmospheric CO ₂ seasonal amplification. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21079-21087.	7.1	27
15	Statistical characterization of urban CO ₂ emission signals observed by commercial airliner measurements. <i>Scientific Reports</i> , 2020, 10, 7963.	3.3	19
16	Assessment of spatio-temporal distribution of CO ₂ over greater Asia using the WRF-CO ₂ model. <i>Journal of Earth System Science</i> , 2020, 129, 1.	1.3	8
17	The Global Methane Budget 2000–2017. <i>Earth System Science Data</i> , 2020, 12, 1561-1623.	9.9	1,199
18	Global carbon budgets estimated from atmospheric O ₂ and N ₂ observations and CO ₂ observations in the western Pacific region over a 15-year period. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 9269-9285.	4.9	25

#	ARTICLE	IF	CITATIONS
19	Seasonal characteristics of trace gas transport into the extratropical upper troposphere and lower stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7073-7103.	4.9	3
20	Assessing Lagrangian inverse modelling of urban anthropogenic CO ₂ fluxes using in situ aircraft and ground-based measurements in the Tokyo area. <i>Carbon Balance and Management</i> , 2019, 14, 6.	3.2	14
21	Analysis of the Diurnal, Weekly, and Seasonal Cycles and Annual Trends in Atmospheric CO ₂ and CH ₄ at Tower Network in Siberia from 2005 to 2016. <i>Atmosphere</i> , 2019, 10, 689.	2.3	17
22	Development of a balloon-borne instrument for CO ₂ vertical profile observations in the troposphere. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5639-5653.	3.1	6
23	Methane Emission Estimates by the Global High-Resolution Inverse Model Using National Inventories. <i>Remote Sensing</i> , 2019, 11, 2489.	4.0	29
24	Interannual Variation of Upper Tropospheric CO over the Western Pacific Linked with Indonesian Fires. <i>Scientific Online Letters on the Atmosphere</i> , 2019, 15, 205-210.	1.4	5
25	In situ observation of atmospheric oxygen and carbon dioxide in the North Pacific using a cargo ship. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 9283-9295.	4.9	4
26	Three-dimensional methane distribution simulated with FLEXPART 8-CTM-1.1 constrained with observation data. <i>Geoscientific Model Development</i> , 2018, 11, 4469-4487.	3.6	10
27	Seasonal evaluation of tropospheric CO ₂ over the Asia-Pacific region observed by the CONTRAIL commercial airliner measurements. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 14851-14866.	4.9	19
28	Gravitational separation of the stratospheric air over Syowa, Antarctica and its connection with meteorological fields. <i>Atmospheric Science Letters</i> , 2018, 19, e857.	1.9	5
29	A global synthesis inversion analysis of recent variability in CO ₂ fluxes using GOSAT and in situ observations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 11097-11124.	4.9	32
30	Station for the comprehensive monitoring of the atmosphere at Fonovaya Observatory, West Siberia: current status and future needs. , 2018, , .		10
31	CO ₂ and CH ₄ observations by the thermal infrared band of GOSAT/TANSO-FTS and GOSAT-1/TANSO-FTS-2. , 2018, , .		0
32	Temporal Characteristics of CH ₄ Vertical Profiles Observed in the West Siberian Lowland Over Surgut From 1993 to 2015 and Novosibirsk From 1997 to 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,261.	3.3	12
33	Reconciliation of top-down and bottom-up CO ₂ fluxes in Siberian larch forest. <i>Environmental Research Letters</i> , 2017, 12, 125012.	5.2	13
34	Impact of Siberian observations on the optimization of surface CO ₂ flux. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 2881-2899.	4.9	17
35	Methane fluxes in the high northern latitudes for 2005–2013 estimated using a Bayesian atmospheric inversion. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 3553-3572.	4.9	59
36	Variability and quasi-decadal changes in the methane budget over the period 2000–2012. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11135-11161.	4.9	85

#	ARTICLE	IF	CITATIONS
37	Emission factors of CO ₂ , CO and CH ₄ from Sumatran peatland fires in 2013 based on shipboard measurements. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2017, 69, 1399047.	1.6	14
38	A 4D-Var inversion system based on the icosahedral grid model (NICAM-TM 4D-Var v1.0) – Part 1: Offline forward and adjoint transport models. <i>Geoscientific Model Development</i> , 2017, 10, 1157-1174.	3.6	27
39	Bias assessment of lower and middle tropospheric CO ₂ concentrations of GOSAT/TANSO-FTS TIR version 1 product. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3877-3892.	3.1	6
40	Six years of atmospheric CO ₂ observations at Mt. Fuji recorded with a battery-powered measurement system. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 667-680.	3.1	10
41	Bias corrections of GOSAT SWIR XCO ₂ and XCH ₄ with TCCON data and their evaluation using aircraft measurement data. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 3491-3512.	3.1	40
42	Algorithm update of the GOSAT/TANSO-FTS thermal infrared CO ₂ product (version 1) and validation of the UTLS CO ₂ data using CONTRAIL measurements. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 2119-2134.	3.1	18
43	A comprehensive estimate of recent carbon sinks in China using both top-down and bottom-up approaches. <i>Scientific Reports</i> , 2016, 6, 22130.	3.3	55
44	Inverse modeling of pan-Arctic methane emissions at high spatial resolution: what can we learn from assimilating satellite retrievals and using different process-based wetland and lake biogeochemical models?. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12649-12666.	4.9	27
45	Inverse modeling of GOSAT-retrieved ratios of total column CH ₄ and CO ₂ for 2009 and 2010. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5043-5062.	4.9	32
46	Winter crop CO ₂ uptake inferred from CONTRAIL measurements over Delhi, India. <i>Geophysical Research Letters</i> , 2016, 43, 11,859.	4.0	9
47	Top-down assessment of the Asian carbon budget since the mid 1990s. <i>Nature Communications</i> , 2016, 7, 10724.	12.8	93
48	The global methane budget 2000–2012. <i>Earth System Science Data</i> , 2016, 8, 697-751.	9.9	824
49	Seasonal changes of CO ₂ , CH ₄ , N ₂ O, and SF ₆ in the upper troposphere/lower stratosphere over the Eurasian continent observed by commercial airliner. <i>Geophysical Research Letters</i> , 2015, 42, 2001-2008.	4.0	13
50	Long-term change of CO ₂ latitudinal distribution in the upper troposphere. <i>Geophysical Research Letters</i> , 2015, 42, 2508-2514.	4.0	19
51	Comparison of GOSAT SWIR and Aircraft Measurements of XCH ₄ over West Siberia. <i>Scientific Online Letters on the Atmosphere</i> , 2015, 11, 160-164.	1.4	2
52	Natural and anthropogenic methane fluxes in Eurasia: a mesoscale quantification by generalized atmospheric inversion. <i>Biogeosciences</i> , 2015, 12, 5393-5414.	3.3	31
53	Validation of XCH ₄ derived from SWIR spectra of GOSAT TANSO-FTS with aircraft measurement data. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 2987-3005.	3.1	32
54	Seasonal Variations of CO ₂ , CH ₄ , N ₂ O and CO in the Mid-Troposphere over the Western North Pacific Observed Using a C-130H Cargo Aircraft. <i>Journal of the Meteorological Society of Japan</i> , 2014, 92, 55-70.	1.8	17

#	ARTICLE	IF	CITATIONS
55	The seasonal variation of the CO ₂ flux over Tropical Asia estimated from GOSAT, CONTRAIL, and IASI. <i>Geophysical Research Letters</i> , 2014, 41, 1809-1815.	4.0	44
56	Carbon balance of China constrained by CONTRAIL aircraft CO ₂ measurements. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10133-10144.	4.9	16
57	Satellite-inferred European carbon sink larger than expected. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 13739-13753.	4.9	83
58	Temporal changes in the emissions of CH ₄ and CO from China estimated from CH ₄ / CO ₂ and CO / CO ₂ correlations observed at Hateruma Island. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 1663-1677.	4.9	90
59	Global and regional emissions estimates for N ₂ O. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4617-4641.	4.9	91
60	Estimating Asian terrestrial carbon fluxes from CONTRAIL aircraft and surface CO ₂ observations for the period 2006–2010. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5807-5824.	4.9	38
61	Emissions of methane from offshore oil and gas platforms in Southeast Asia. <i>Scientific Reports</i> , 2014, 4, 6503.	3.3	32
62	Methane emission from mires of the West Siberian taiga. <i>Eurasian Soil Science</i> , 2013, 46, 1182-1193.	1.6	25
63	Carbon flux estimation for Siberia by inverse modeling constrained by aircraft and tower CO ₂ measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1100-1122.	3.3	49
64	Decadal time series of tropospheric abundance of N ₂ O isotopomers and isotopologues in the Northern Hemisphere obtained by the long-term observation at Hateruma Island, Japan. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3369-3381.	3.3	38
65	The 2007–2011 evolution of tropical methane in the mid-troposphere as seen from space by MetOp-A/IASI. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4279-4289.	4.9	115
66	Atmospheric column-averaged mole fractions of carbon dioxide at 53 aircraft measurement sites. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5265-5275.	4.9	20
67	Corrigendum to ‘‘Atmospheric column-averaged mole fractions of carbon dioxide at 53 aircraft measurement sites’’ published in <i>Atmos. Chem. Phys.</i> 13, 5265–5275, 2013. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9213-9216.	4.9	2
68	Validation of XCO ₂ derived from SWIR spectra of GOSAT TANSO-FTS with aircraft measurement data. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 9771-9788.	4.9	106
69	TransCom model simulations of methane: Comparison of vertical profiles with aircraft measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3891-3904.	3.3	24
70	Aircraft and tower measurements of CO ₂ concentration in the planetary boundary layer and the lower free troposphere over southern taiga in West Siberia: Long-term records from 2002 to 2011. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9489-9498.	3.3	36
71	Aircraft measurements of carbon dioxide and methane for the calibration of ground-based high-resolution Fourier Transform Spectrometers and a comparison to GOSAT data measured over Tsukuba and Moshiri. <i>Atmospheric Measurement Techniques</i> , 2012, 5, 2003-2012.	3.1	43
72	Carbon and hydrogen isotopic ratios of atmospheric methane in the upper troposphere over the Western Pacific. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8095-8113.	4.9	30

#	ARTICLE	IF	CITATIONS
73	Methane emission from bogs in the subtaiga of Western Siberia: The development of standard model. Eurasian Soil Science, 2012, 45, 947-957.	1.6	28
74	Analysis of seasonality and annual mean distribution of atmospheric potential oxygen (APO) in the Pacific region. Global Biogeochemical Cycles, 2012, 26, n/a-n/a.	4.9	18
75	Contributions of natural and anthropogenic sources to atmospheric methane variations over western Siberia estimated from its carbon and hydrogen isotopes. Global Biogeochemical Cycles, 2012, 26, .	4.9	30
76	Aircraft observation of the seasonal variation in the transport of CO ₂ in the upper atmosphere. Journal of Geophysical Research, 2012, 117, .	3.3	39
77	Imposing strong constraints on tropical terrestrial CO ₂ fluxes using passenger aircraft based measurements. Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	75
78	Distribution of methane in the tropical upper troposphere measured by CARIBIC and CONTRAIL aircraft. Journal of Geophysical Research, 2012, 117, .	3.3	38
79	Comparisons between XCH ₄ from GOSAT Shortwave and Thermal Infrared Spectra and Aircraft CH ₄ Measurements over Guam. Scientific Online Letters on the Atmosphere, 2012, 8, 145-149.	1.4	37
80	Methane emissions from north and middle taiga mires of Western Siberia: Bc8 standard model. Moscow University Soil Science Bulletin, 2012, 67, 45-53.	0.7	7
81	Global CO ₂ fluxes inferred from surface air-sample measurements and from TCCON retrievals of the CO ₂ total column. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	85
82	Interannual variability and trends in atmospheric methane over the western Pacific from 1994 to 2010. Journal of Geophysical Research, 2011, 116, .	3.3	39
83	Evaluating a 3-D transport model of atmospheric CO ₂ using ground-based, aircraft, and space-borne data. Atmospheric Chemistry and Physics, 2011, 11, 2789-2803.	4.9	84
84	Carbon balance of South Asia constrained by passenger aircraft CO ₂ measurements. Atmospheric Chemistry and Physics, 2011, 11, 4163-4175.	4.9	78
85	Three-dimensional variations of atmospheric CO ₂ : aircraft measurements and multi-transport model simulations. Atmospheric Chemistry and Physics, 2011, 11, 13359-13375.	4.9	41
86	Airborne flight campaign for GOSAT validation. Proceedings of SPIE, 2011, , .	0.8	0
87	The seasonal cycle amplitude of total column CO ₂ : Factors behind the model-observation mismatch. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	24
88	Evaluation of methane emissions from West Siberian wetlands based on inverse modeling. Environmental Research Letters, 2011, 6, 035201.	5.2	39
89	Regional methane emission from West Siberia mire landscapes. Environmental Research Letters, 2011, 6, 045214.	5.2	77
90	Onboard measurement system of atmospheric carbon monoxide in the Pacific by voluntary observing ships. Atmospheric Measurement Techniques, 2011, 4, 2495-2507.	3.1	10

#	ARTICLE	IF	CITATIONS
91	CO emissions from biomass burning in South-east Asia in the 2006 El Niño year: shipboard and AIRS satellite observations. <i>Environmental Chemistry</i> , 2011, 8, 213.	1.5	21
92	CO ₂ column-averaged volume mixing ratio derived over Tsukuba from measurements by commercial airlines. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 7659-7667.	4.9	25
93	Characterization of Tropospheric Emission Spectrometer (TES) CO ₂ for carbon cycle science. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5601-5623.	4.9	100
94	Methane emissions from subtaiga mires of Western Siberia: The "standard model". <i>Moscow University Soil Science Bulletin</i> , 2010, 65, 86-93.	0.7	14
95	Modeling global atmospheric CO ₂ with improved emission inventories and CO ₂ production from the oxidation of other carbon species. <i>Geoscientific Model Development</i> , 2010, 3, 689-716.	3.6	117
96	Calibration of the Total Carbon Column Observing Network using aircraft profile data. <i>Atmospheric Measurement Techniques</i> , 2010, 3, 1351-1362.	3.1	441
97	Development of an Atmospheric Carbon Dioxide Standard Gas Saving System and Its Application to a Measurement at a Site in the West Siberian Forest. <i>Journal of Atmospheric and Oceanic Technology</i> , 2010, 27, 843-855.	1.3	10
98	Stratospheric influence on the seasonal cycle of nitrous oxide in the troposphere as deduced from aircraft observations and model simulations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	43
99	Mid-upper tropospheric methane in the high Northern Hemisphere: Spaceborne observations by AIRS, aircraft measurements, and model simulations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	44
100	CO ₂ surface fluxes at grid point scale estimated from a global 21 year reanalysis of atmospheric measurements. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	276
101	Spatial and temporal variability of CO ₂ and CH ₄ concentrations in the surface atmospheric layer over West Siberia. <i>Atmospheric and Oceanic Optics</i> , 2009, 22, 84-93.	1.3	17
102	Vertical distribution of greenhouse gases above Western Siberia by the long-term measurement data. <i>Atmospheric and Oceanic Optics</i> , 2009, 22, 316-324.	1.3	21
103	Theoretical and experimental evaluation of the isotope effect of NDIR analyzer on atmospheric CO ₂ measurement. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	37
104	Formation mechanisms of latitudinal CO ₂ gradients in the upper troposphere over the subtropics and tropics. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	15
105	Column-averaged volume mixing ratio of CO ₂ measured with ground-based Fourier transform spectrometer at Tsukuba. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	39
106	First year of upper tropospheric integrated content of CO ₂ from IASI hyperspectral infrared observations. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 4797-4810.	4.9	157
107	Atmospheric O ₂ /N ₂ measurements at two Japanese sites: estimation of global oceanic and land biotic carbon sinks and analysis of the variations in atmospheric potential oxygen (APO). <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2008, 60, 213-225.	1.6	41
108	Gravitational separation suggested by O ₂ /N ₂ , ¹⁵ N of N ₂ , ¹⁸ O of O ₂ , Ar/N ₂ observed in the lowermost part of the stratosphere at northern middle and high latitudes in the early spring of 2002. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	9

#	ARTICLE	IF	CITATIONS
109	Variability in carbon stable isotope ratio of heterotrophic respiration in a deciduous needle-leaf forest. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	5
110	Ecosystem-scale carbon isotope ratio of respired CO ₂ in cool-temperate deciduous forests under Asian monsoon climate. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	2
111	Seasonal variations of CO ₂ near the tropopause observed by commercial aircraft. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	55
112	Worldwide Measurements of Atmospheric CO ₂ and Other Trace Gas Species Using Commercial Airlines. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008, 25, 1744-1754.	1.3	240
113	Evaluation of atmospheric CO ₂ measurements from new flask air sampling of JAL airliner observations. <i>Papers in Meteorology and Geophysics</i> , 2008, 59, 1-17.	0.9	69
114	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
115	Assessing the near surface sensitivity of SCIAMACHY atmospheric CO ₂ retrieved using (FSI) WFM-DOAS. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3597-3619.	4.9	50
116	Evaluation of Television Infrared Observation Satellite (TIROS-N) Operational Vertical Sounder (TOVS) spaceborne CO ₂ estimates using model simulations and aircraft data. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	12
117	Three-dimensional SF ₆ data and tropospheric transport simulations: Signals, modeling accuracy, and implications for inverse modeling. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	35
118	Validation of the Improved Limb Atmospheric Spectrometer-II (ILAS-II) Version 1.4 nitrous oxide and methane profiles. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	14
119	A Lightweight Observation System for Atmospheric Carbon Dioxide Concentration Using a Small Unmanned Aerial Vehicle. <i>Journal of Atmospheric and Oceanic Technology</i> , 2006, 23, 700-710.	1.3	46
120	Preparation of gravimetric standards for measurements of atmospheric oxygen and reevaluation of atmospheric oxygen concentration. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	41
121	First measurements of the latitudinal atmospheric O ₂ and CO ₂ distributions across the western Pacific. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	35
122	Temporal and latitudinal distributions of stratospheric N ₂ O isotopomers. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	35
123	Removal of NO _x and NO _y in Asian outflow plumes: Aircraft measurements over the western Pacific in January 2002. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	50
124	Effect of recent observations on Asian CO ₂ flux estimates by transport model inversions. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 522-529.	1.6	24
125	Carbon dioxide variations in the stratosphere over Japan, Scandinavia and Antarctica. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2003, 55, 178-186.	1.6	36
126	Emission estimates of selected volatile organic compounds from tropical savanna burning in northern Australia. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	48

#	ARTICLE	IF	CITATIONS
127	Photochemical production of ozone in the upper troposphere in association with cumulus convection over Indonesia. <i>Journal of Geophysical Research</i> , 2003, 108, BIB 4-1.	3.3	28
128	Black carbon in aerosol during BIBLE B. <i>Journal of Geophysical Research</i> , 2003, 108, BIB 3-1.	3.3	14
129	Vertical and meridional distributions of the atmospheric CO ₂ mixing ratio between northern midlatitudes and southern subtropics. <i>Journal of Geophysical Research</i> , 2003, 108, BIB 5-1.	3.3	42
130	Gas-chromatographic measurements of the atmospheric oxygen/nitrogen ratio at Hateruma Island and Cape Ochi-ishi, Japan. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	24
131	Carbonyl Sulfide Concentration in the Arctic Lowermost Stratosphere and Stratosphere-troposphere Transport. <i>Journal of the Meteorological Society of Japan</i> , 2003, 81, 1471-1484.	1.8	1
132	Analysis and presentation of in situ atmospheric methane measurements from Cape Ochi-ishi and Hateruma Island. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 8-1.	3.3	60
133	Lead isotope ratios in the urban air of eastern and central Russia. <i>Atmospheric Environment</i> , 2001, 35, 2783-2793.	4.1	70
134	Balloon operation for stratospheric air sampling at Antarctica. <i>Advances in Space Research</i> , 2000, 26, 1369-1372.	2.6	2
135	A strong source of methyl chloride to the atmosphere from tropical coastal land. <i>Nature</i> , 2000, 403, 295-298.	27.8	140
136	Variations in atmospheric nitrous oxide observed at Hateruma monitoring station. <i>Chemosphere</i> , 2000, 2, 435-443.	1.2	11
137	Latitudinal distribution of atmospheric methyl bromide: Measurements and modeling. <i>Geophysical Research Letters</i> , 2000, 27, 697-700.	4.0	24
138	Isoprene in the marine boundary layer (southeast Asian Sea, eastern Indian Ocean, and Southern Tj ETQqO O O rgBT /Overlock 10 Tf 50 . 8067-8076.	3.3	87
139	Distribution of tropospheric methane over Siberia in July 1993. <i>Journal of Geophysical Research</i> , 1997, 102, 25371-25382.	3.3	19
140	Vertical profile of the carbon isotopic ratio of stratospheric methane over Japan. <i>Geophysical Research Letters</i> , 1997, 24, 2989-2992.	4.0	43
141	Aircraft measurements of the concentrations of CO ₂ , CH ₄ , N ₂ O, and CO and the carbon and oxygen isotopic ratios of CO ₂ in the troposphere over Russia. <i>Journal of Geophysical Research</i> , 1997, 102, 3843-3859.	3.3	79
142	Aircraft measurements of the stable carbon isotopic ratio of atmospheric methane over Siberia. <i>Global Biogeochemical Cycles</i> , 1996, 10, 223-231.	4.9	32
143	Airborne measurements of atmospheric methane over oil fields in western Siberia. <i>Geophysical Research Letters</i> , 1996, 23, 1621-1624.	4.0	19
144	Long-term monitoring of carbon and oxygen isotope ratios of stratospheric CO ₂ over Japan. <i>Geophysical Research Letters</i> , 1995, 22, 397-400.	4.0	22

#	ARTICLE	IF	CITATIONS
145	Measurements of the stratospheric carbon dioxide concentration over Japan using a Balloon-borne cryogenic sampler. <i>Geophysical Research Letters</i> , 1995, 22, 1229-1232.	4.0	53
146	Increase in the atmospheric nitrous oxide concentration during the last 250 years. <i>Geophysical Research Letters</i> , 1995, 22, 2921-2924.	4.0	155
147	Seasonal variations in ¹⁴ C concentrations of stratospheric CO ₂ measured with accelerator mass spectrometry. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1994, 92, 413-416.	1.4	16
148	Differences of the atmospheric CH ₄ concentration between the Arctic and Antarctic regions in pre-industrial/pre-agricultural era. <i>Geophysical Research Letters</i> , 1993, 20, 943-946.	4.0	63
149	Measurements of CO ₂ and CH ₄ concentrations in air in a polar ice core. <i>Journal of Glaciology</i> , 1993, 39, 209-215.	2.2	3
150	Measurements of CO ₂ and CH ₄ concentrations in air in a polar ice core. <i>Journal of Glaciology</i> , 1993, 39, 209-215.	2.2	26
151	Measurement of ¹⁴ C Concentrations of Stratospheric CO ₂ by Accelerator Mass Spectrometry. <i>Radiocarbon</i> , 1992, 34, 745-752.	1.8	22