

Hiroshi Tanimoto

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

155
papers

5,401
citations

42
h-index

67
g-index

180
ext. papers

6,146
ext. citations

5.2
avg, IF

5.19
L-index

#	Paper	IF	Citations
155	The contribution of coral-reef-derived dimethyl sulfide to aerosol burden over the Great Barrier Reef: a modelling study. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 2419-2445	6.8	0
154	Rethinking of the adverse effects of NO _x -control on the reduction of methane and tropospheric ozone [Challenges toward a denitrified society. <i>Atmospheric Environment</i> , 2022 , 277, 119033	5.3	2
153	Improved calibration procedures for the EM27/SUN spectrometers of the Collaborative Carbon Column Observing Network (COCCON). <i>Atmospheric Measurement Techniques</i> , 2022 , 15, 2433-2463	4	0
152	Parameterizing the Impact of Seawater Temperature and Irradiance on Dimethylsulfide (DMS) in the Great Barrier Reef and the Contribution of Coral Reefs to the Global Sulfur Cycle. <i>Journal of Geophysical Research: Oceans</i> , 2021 , 126, e2020JC016783	3.3	1
151	Temperature and acidity dependence of secondary organic aerosol formation from α -pinene ozonolysis with a compact chamber system. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 5983-6003	6.8	6
150	Model and Satellite Analysis of Transport of Asian Anthropogenic Pollution to the Arctic: Siberian and Pacific Pathways and Their Meteorological Controls. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033459	4.4	2
149	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	6.8	4
148	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	6.8	2
147	Determination of the triple oxygen isotopic composition of tropospheric ozone in terminal positions using a multistep nitrite-coated filter-pack system. <i>Rapid Communications in Mass Spectrometry</i> , 2021 , 35, e9124	2.2	
146	First X-ray Spectroscopic Observations of Atmospheric Titanium Species: Size Dependence and the Emission Source. <i>Environmental Science & Technology</i> , 2021 ,	10.3	1
145	First Concurrent Observations of NO ₂ and CO ₂ From Power Plant Plumes by Airborne Remote Sensing. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092685	4.9	2
144	Dominance of the residential sector in Chinese black carbon emissions as identified from downwind atmospheric observations during the COVID-19 pandemic.. <i>Scientific Reports</i> , 2021 , 11, 23378	4.9	1
143	FLEXPART v10.1 simulation of source contributions to Arctic black carbon. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 1641-1656	6.8	9
142	An empirical approach toward the SLCP reduction targets in Asia for the mid-term climate change mitigation. <i>Progress in Earth and Planetary Science</i> , 2020 , 7,	3.9	1
141	Global Atmospheric Budget of Acetone: Air-Sea Exchange and the Contribution to Hydroxyl Radicals. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2020JD032553	4.4	8
140	A study of volatility by composition, heating, and dilution measurements of secondary organic aerosol from 1,3,5-trimethylbenzene. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 14901-14915	6.8	8
139	Estimation of refueling emissions based on theoretical model and effects of E10 fuel on refueling and evaporative emissions from gasoline cars. <i>Science of the Total Environment</i> , 2018 , 622-623, 467-473	10.2	12

138	Tropospheric Ozone Assessment Report: Present-day distribution and trends of tropospheric ozone relevant to climate and global atmospheric chemistry model evaluation. <i>Elementa</i> , 2018 , 6,	3.6	160
137	Real-Time Measurements of Evaporative Emissions from Gasoline Cars by NO+ Chemical Ionization Mass Spectrometry. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2018 , 66, 123-128	0.2	
136	Linkage of Marine Biology and Atmospheric Chemistry: New Insights from Shipboard Observations with Proton Transfer Reaction-Mass Spectrometry. <i>Journal of the Mass Spectrometry Society of Japan</i> , 2018 , 66, 118-122	0.2	
135	Studying volatility from composition, dilution, and heating measurements of secondary organic aerosols formed during α -pinene ozonolysis. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5455-5466	6.8	9
134	Custom-made PTFE filters for ultra-clean size-fractionated aerosol sampling for trace metals. <i>Marine Chemistry</i> , 2018 , 206, 100-108	3.7	12
133	The Flux and Emission of Dimethylsulfide From the Great Barrier Reef Region and Potential Influence on the Climate of NE Australia. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 13,835	4.4	5
132	Decadal Shifts in Wind Patterns Reduced Continental Outflow and Suppressed Ozone Trend in the 2010s in the Lower Troposphere Over Japan. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 12,980	4.4	3
131	Mechanisms of Increased Particle and VOC Emissions during DPF Active Regeneration and Practical Emissions Considering Regeneration. <i>Environmental Science & Technology</i> , 2017 , 51, 2914-2923	10.3	29
130	The Essential Role for Laboratory Studies in Atmospheric Chemistry. <i>Environmental Science & Technology</i> , 2017 , 51, 2519-2528	10.3	55
129	Particle and VOC Emissions from Stoichiometric Gasoline Direct Injection Vehicles and Correlation Between Particle Number and Mass Emissions. <i>Emission Control Science and Technology</i> , 2017 , 3, 135-141		14
128	Sea-to-air flux of dimethyl sulfide in the South and North Pacific Ocean as measured by proton transfer reaction-mass spectrometry coupled with the gradient flux technique. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 7216-7231	4.4	13
127	Tagged tracer simulations of black carbon in the Arctic: transport, source contributions, and budget. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 10515-10533	6.8	25
126	Emission characteristics of refractory black carbon aerosols from fresh biomass burning: a perspective from laboratory experiments. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 13001-13016	6.8	23
125	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	3.3	8
124	Tropospheric Ozone Assessment Report: Database and Metrics Data of Global Surface Ozone Observations. <i>Elementa</i> , 2017 , 5, 58	3.6	112
123	Lower than expected volatility of secondary organic aerosols formed during α -pinene ozonolysis 2017 ,		2
122	Observed and Modeled Mass Concentrations of Organic Aerosols and PM _{2.5} at Three Remote Sites around the East China Sea: Roles of Chemical Aging. <i>Aerosol and Air Quality Research</i> , 2017 , 17, 3091-3105	4.6	4
121	Emissions during DPF Regeneration. <i>The Proceedings of Mechanical Engineering Congress Japan</i> , 2017 , 2017, G0700303	0	

120	Number size distribution of aerosol particles and new particle formation events in tropical and subtropical Pacific Oceans. <i>Atmospheric Environment</i> , 2016 , 142, 324-339	5.3	32
119	A review of atmospheric chemistry observations at mountain sites. <i>Progress in Earth and Planetary Science</i> , 2016 , 3,	3.9	26
118	Dialdehyde Production during Direct Dissociation of Energy-rich Criegee Intermediates Produced by Ozonolysis of Cycloalkenes. <i>Chemistry Letters</i> , 2016 , 45, 916-918	1.7	1
117	Investigation on VOC Emissions from Automobile Sources by Means of Online Mass Spectrometry. <i>Current Pollution Reports</i> , 2016 , 2, 188-199	7.6	8
116	Diagnosis of Photochemical Ozone Production Rates and Limiting Factors in Continental Outflow Air Masses Reaching Fukue Island, Japan: Ozone-Control Implications. <i>Aerosol and Air Quality Research</i> , 2016 , 16, 430-441	4.6	9
115	Representation of the Community Earth System Model (CESM1) CAM4-chem within the Chemistry-Climate Model Initiative (CCMI). <i>Geoscientific Model Development</i> , 2016 , 9, 1853-1890	6.3	94
114	Seasonal cycles of O ₃ in the marine boundary layer: Observation and model simulation comparisons. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 538-557	4.4	26
113	Abundance and distribution of dimethylsulfoniopropionate degradation genes and the corresponding bacterial community structure at dimethyl sulfide hot spots in the tropical and subtropical pacific ocean. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 4184-94	4.8	25
112	Refueling emissions from cars in Japan: Compositions, temperature dependence and effect of vapor liquefied collection system. <i>Atmospheric Environment</i> , 2015 , 120, 455-462	5.3	12
111	Laboratory measurements of emission factors of nonmethane volatile organic compounds from burning of Chinese crop residues. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 5237-5252	4.4	21
110	Examining the major contributors of ozone pollution in a rural area of the Yangtze River Delta region during harvest season. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6101-6111	6.8	25
109	Enhancement of dimethylsulfide production by anoxic stress in natural seawater. <i>Geophysical Research Letters</i> , 2015 , 42, 4047-4053	4.9	6
108	Exceedances of air quality standard level of PM 2.5 in Japan caused by Siberian wildfires. <i>Environmental Research Letters</i> , 2015 , 10, 105001	6.2	24
107	Interannual variability of nitrogen oxides emissions from boreal fires in Siberia and Alaska during 1996-2011 as observed from space. <i>Environmental Research Letters</i> , 2015 , 10, 065004	6.2	11
106	Consistency of tropospheric ozone observations made by different platforms and techniques in the global databases. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2015 , 67, 27073	3.3	12
105	Evaporative emissions in three-day diurnal breathing loss tests on passenger cars for the Japanese market. <i>Atmospheric Environment</i> , 2015 , 107, 166-173	5.3	25
104	Verification of Chemical Transport Models for PM _{2.5} Chemical Composition Using Simultaneous Measurement Data over Japan. <i>Aerosol and Air Quality Research</i> , 2015 , 15, 2009-2023	4.6	26
103	Emissions of methane from offshore oil and gas platforms in Southeast Asia. <i>Scientific Reports</i> , 2014 , 4, 6503	4.9	21

102	Tropospheric winds from northeastern China carry the etiologic agent of Kawasaki disease from its source to Japan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 7952-7	11.5	121
101	Measurement of air-sea exchange of dimethyl sulfide and acetone by PTR-MS coupled with gradient flux technique. <i>Environmental Science & Technology</i> , 2014 , 48, 526-33	10.3	28
100	Field measurement of nitromethane from automotive emissions at a busy intersection using proton-transfer-reaction mass spectrometry. <i>Atmospheric Environment</i> , 2014 , 96, 301-309	5.3	11
99	High-resolution observations of dissolved isoprene in surface seawater in the Southern Ocean during austral summer 2010-2011. <i>Journal of Oceanography</i> , 2014 , 70, 225-239	1.9	27
98	Analysis of secondary organic aerosols from ozonolysis of isoprene by proton transfer reaction mass spectrometry. <i>Atmospheric Environment</i> , 2014 , 97, 397-405	5.3	46
97	Long-term changes in lower tropospheric baseline ozone concentrations: Comparing chemistry-climate models and observations at northern midlatitudes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 5719-5736	4.4	124
96	Mass Spectrometric Detection of Alkanes Using NO+ Chemical Ionization in Proton-transfer-reaction Plus Switchable Reagent Ion Mass Spectrometry. <i>Chemistry Letters</i> , 2014 , 43, 538-540	1.7	15
95	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	6.8	64
94	Emissions of nonmethane volatile organic compounds from open crop residue burning in the Yangtze River Delta region, China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 7684-7698	4.4	37
93	Characterization of nitromethane emission from automotive exhaust. <i>Atmospheric Environment</i> , 2013 , 81, 523-531	5.3	24
92	Lower tropospheric ozone at northern midlatitudes: Changing seasonal cycle. <i>Geophysical Research Letters</i> , 2013 , 40, 1631-1636	4.9	83
91	Strong relationship between dimethyl sulfide and net community production in the western subarctic Pacific. <i>Geophysical Research Letters</i> , 2013 , 40, 3986-3990	4.9	12
90	On-line measurements of gaseous nitro-organic compounds in diesel vehicle exhaust by proton-transfer-reaction mass spectrometry. <i>Atmospheric Environment</i> , 2013 , 73, 195-203	5.3	29
89	Overview of the Mount Tai Experiment (MTX2006) in central East China in June 2006: studies of significant regional air pollution. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 8265-8283	6.8	36
88	Detection of radioactive 35S at Fukushima and other Japanese sites. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 1020-1027	4.4	4
87	Evaluation of using unfiltered seawater for underway measurement of dimethyl sulfide in the ocean by online mass spectrometry. <i>Limnology and Oceanography: Methods</i> , 2013 , 11, 549-560	2.6	10
86	Influence of Asian outflow on Rishiri Island, northernmost Japan: Application of radon as a tracer for characterizing fetch regions and evaluating a global 3D model. <i>Atmospheric Environment</i> , 2012 , 50, 174-181	5.3	11
85	Diurnal variations of organic molecular tracers and stable carbon isotopic composition in atmospheric aerosols over Mt. Tai in the North China Plain: an influence of biomass burning. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 8359-8375	6.8	112

84	Emission ratio of carbonaceous aerosols observed near crop residual burning sources in a rural area of the Yangtze River Delta Region, China. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		23
83	Effect of air composition (N ₂ , O ₂ , Ar, and H ₂ O) on CO ₂ and CH ₄ measurement by wavelength-scanned cavity ring-down spectroscopy: calibration and measurement strategy. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 2689-2701	4	68
82	Long-term variation of atmospheric methyl iodide and its link to global environmental change. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	25
81	Long-term changes in lower tropospheric baseline ozone concentrations at northern mid-latitudes. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 11485-11504	6.8	193
80	Impacts of aerosols on summertime tropospheric photolysis frequencies and photochemistry over Central Eastern China. <i>Atmospheric Environment</i> , 2011 , 45, 1817-1829	5.3	97
79	Application of PTR-MS to an incubation experiment of the marine diatom <i>Thalassiosira pseudonana</i> . <i>Geochemical Journal</i> , 2011 , 45, 355-363	0.9	8
78	Onboard measurement system of atmospheric carbon monoxide in the Pacific by voluntary observing ships. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 2495-2507	4	10
77	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	3.2	15
76	A Quantitative Examination of the Detection Sensitivities of Proton-Transfer Reaction Mass Spectrometry for Gaseous 2-Propanol and Acetic Acid. <i>Bulletin of the Chemical Society of Japan</i> , 2010 , 83, 900-904	5.1	10
75	PTR-MS measurements of non-methane volatile organic compounds during an intensive field campaign at the summit of Mount Tai, China, in June 2006. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7085-7099	6.8	26
74	Impact of open crop residual burning on air quality over Central Eastern China during the Mount Tai Experiment 2006 (MTX2006). <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7353-7368	6.8	60
73	High-resolution measurement of multiple volatile organic compounds dissolved in seawater using equilibrator inlet-proton transfer reaction-mass spectrometry (EI-PTR-MS). <i>Marine Chemistry</i> , 2010 , 122, 59-73	3.7	59
72	Increase in springtime tropospheric ozone at a mountainous site in Japan for the period 1998-2006. <i>Atmospheric Environment</i> , 2009 , 43, 1358-1363	5.3	67
71	A deuterium-labeling study on the reproduction of hydronium ions in the PTR-MS detection of ethanol. <i>International Journal of Mass Spectrometry</i> , 2009 , 285, 95-99	1.9	16
70	Exploring CO pollution episodes observed at Rishiri Island by chemical weather simulations and AIRS satellite measurements: long-range transport of burning plumes and implications for emissions inventories. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2009 , 61, 394-407	3.3	21
69	Equilibrator inlet-proton transfer reaction-mass spectrometry (EI-PTR-MS) for sensitive, high-resolution measurement of dimethyl sulfide dissolved in seawater. <i>Analytical Chemistry</i> , 2009 , 81, 9021-6	7.8	47
68	Asian anthropogenic emissions and decadal trends in springtime tropospheric ozone over Japan: 1998-2007. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	46
67	Anthropogenic aerosols observed in Asian continental outflow at Jeju Island, Korea, in spring 2005. <i>Journal of Geophysical Research</i> , 2009 , 114,		42

66	Anomalous geographical gap in carbon monoxide mixing ratios over Hokkaido (Japan) in summer 2004. <i>Geochemical Journal</i> , 2009 , 43, e23-e29	0.9	4
65	Influence of meteorological variability on interannual variations of springtime boundary layer ozone over Japan during 1981-2005. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 6287-6304	6.8	53
64	Rates and regimes of photochemical ozone production over Central East China in June 2006: a box model analysis using comprehensive measurements of ozone precursors. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 7711-7723	6.8	80
63	Formation and transport of oxidized reactive nitrogen, ozone, and secondary organic aerosol in Tokyo. <i>Journal of Geophysical Research</i> , 2008 , 113,		38
62	Cloud condensation nuclei activity at Jeju Island, Korea in spring 2005. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 2933-2948	6.8	78
61	Technical Note: Determination of formaldehyde mixing ratios in air with PTR-MS: laboratory experiments and field measurements. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 273-284	6.8	104
60	Near-ground ozone source attributions and outflow in central eastern China during MTX2006. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 7335-7351	6.8	83
59	Diagnosing recent CO emissions and ozone evolution in East Asia using coordinated surface observations, adjoint inverse modeling, and MOPITT satellite data. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 3867-3880	6.8	42
58	Validation of OMI tropospheric NO ₂ column data using MAX-DOAS measurements deep inside the North China Plain in June 2006: Mount Tai Experiment 2006. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 6577-6586	6.8	81
57	Determination of branching ratios for the reactions of H ₃ O ⁺ with ethylbenzenes as a function of relative kinetic energy. <i>International Journal of Mass Spectrometry</i> , 2008 , 276, 49-55	1.9	3
56	Temporal variations in ozone concentrations derived from Principal Component Analysis. <i>Theoretical and Applied Climatology</i> , 2008 , 92, 47-58	3	2
55	Differentiation of isomeric compounds by two-stage proton transfer reaction time-of-flight mass spectrometry. <i>Journal of the American Society for Mass Spectrometry</i> , 2008 , 19, 325-31	3.5	19
54	Aldehyde and ketone discrimination and quantification using two-stage proton transfer reaction mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2008 , 278, 15-19	1.9	18
53	Ozone-CO Correlations in Siberian Wildfire Plumes Observed at Rishiri Island. <i>Scientific Online Letters on the Atmosphere</i> , 2008 , 4, 65-68	2.1	23
52	Atmospheric CO ₂ and O ₃ observed on Rishiri Island from December 2006 to March 2007. <i>Papers in Meteorology and Geophysics</i> , 2008 , 59, 31-38	0	4
51	Long-Term Simulations of Surface Ozone in East Asia During 1980-2020 with CMAQ and REAS Inventory. <i>NATO Security Through Science Series C: Environmental Security</i> , 2008 , 136-144		9
50	Direct assessment of international consistency of standards for ground-level ozone: strategy and implementation toward metrological traceability network in Asia. <i>Journal of Environmental Monitoring</i> , 2007 , 9, 1183-93		20
49	Chemistry of OH and HO ₂ radicals observed at Rishiri Island, Japan, in September 2003: Missing daytime sink of HO ₂ and positive nighttime correlations with monoterpenes. <i>Journal of Geophysical Research</i> , 2007 , 112,		57

48	Widespread pollution events of carbon monoxide observed over the western North Pacific during the East Asian Regional Experiment (EAREX) 2005 campaign. <i>Journal of Geophysical Research</i> , 2007 , 112,		24
47	Diurnal peroxy radical chemistry at a remote coastal site over the sea of Japan. <i>Journal of Geophysical Research</i> , 2007 , 112,		11
46	Regional climatology of particulate carbonaceous substances in the northern area of the east Asian Pacific rim. <i>Journal of Geophysical Research</i> , 2007 , 112,		12
45	Urban photochemistry in central Tokyo: 1. Observed and modeled OH and HO ₂ radical concentrations during the winter and summer of 2004. <i>Journal of Geophysical Research</i> , 2007 , 112,		158
44	Overview of the Atmospheric Brown Cloud East Asian Regional Experiment 2005 and a study of the aerosol direct radiative forcing in east Asia. <i>Journal of Geophysical Research</i> , 2007 , 112,		218
43	Chemical characteristics of water-soluble organic carbon in the Asian outflow. <i>Journal of Geophysical Research</i> , 2007 , 112,		77
42	Evaluation of standards and methods for continuous measurements of carbon monoxide at ground-based sites in Asia. <i>Papers in Meteorology and Geophysics</i> , 2007 , 58, 85-93	0	15
41	Detection of C ₁₀ -15 alkyl nitrates by proton transfer reaction time-of-flight mass spectrometry. <i>International Journal of Mass Spectrometry</i> , 2007 , 263, 12-21	1.9	33
40	Diurnal variations in H ₂ O ₂ , O ₃ , PAN, HNO ₃ and aldehyde concentrations and NO/NO ₂ ratios at Rishiri Island, Japan: potential influence from iodine chemistry. <i>Science of the Total Environment</i> , 2007 , 376, 185-97	10.2	17
39	Temporal Trends of Non-sea Salt Sulfate and Nitrate in Wet Deposition in Japan. <i>Water, Air and Soil Pollution</i> , 2007 , 7, 67-75		6
38	Development of a PTR-TOFMS instrument for real-time measurements of volatile organic compounds in air. <i>International Journal of Mass Spectrometry</i> , 2007 , 263, 1-11	1.9	52
37	Analysis of the seasonal variation of ozone in the boundary layer in East Asia using the Community Multi-scale Air Quality model: What controls surface ozone levels over Japan?. <i>Atmospheric Environment</i> , 2006 , 40, 1856-1868	5.3	114
36	International Comparison CCQM-P28: Ozone at ambient level. <i>Metrologia</i> , 2006 , 43, 08010-08010	2.1	7
35	Seasonal variation of carbon monoxide in northern Japan: Fourier transform IR measurements and source-labeled model calculations. <i>Journal of Geophysical Research</i> , 2006 , 111,		10
34	Intercomparison of ultraviolet photometry and gas-phase titration techniques for ozone reference standards at ambient levels. <i>Journal of Geophysical Research</i> , 2006 , 111,		15
33	High frequency measurements of HFCs at a remote site in east Asia and their implications for Chinese emissions. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	73
32	A novel discharge source of hydronium ions for proton transfer reaction ionization: design, characterization, and performance. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 1025-9	2.2	26
31	Significant latitudinal gradient in the surface ozone spring maximum over East Asia. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	85

30	High ClO and ozone depletion observed in the plume of Sakurajima volcano, Japan. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	59
29	Increased Northern Hemispheric carbon monoxide burden in the troposphere in 2002 and 2003 detected from the ground and from space. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 563-573	6.8	103
28	Negative Ion Chemical Ionization Mass Spectra of C ₁₀ -Alkyl Nitrates. <i>Chemistry Letters</i> , 2005 , 34, 1200-1201	1.7	4
27	Long-range transport of Siberian biomass burning emissions and impact on surface ozone in western North America. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	205
26	A quantitative assessment of the 1998 carbon monoxide emission anomaly in the Northern Hemisphere based on total column and surface concentration measurements. <i>Journal of Geophysical Research</i> , 2004 , 109,		64
25	Simultaneous measurements of particulate elemental carbon on the ground observation network over the western North Pacific during the ACE-Asia campaign. <i>Journal of Geophysical Research</i> , 2003 , 108,		29
24	Regional chemical weather forecasting system CFORS: Model descriptions and analysis of surface observations at Japanese island stations during the ACE-Asia experiment. <i>Journal of Geophysical Research</i> , 2003 , 108,		162
23	Chemical properties and outflow patterns of anthropogenic and dust particles on Rishiri Island during the Asian Pacific Regional Aerosol Characterization Experiment (ACE-Asia). <i>Journal of Geophysical Research</i> , 2003 , 108,		60
22	Surface ozone at four remote island sites and the preliminary assessment of the exceedances of its critical level in Japan. <i>Atmospheric Environment</i> , 2002 , 36, 4235-4250	5.3	52
21	Nighttime variations in HO ₂ radical mixing ratios at Rishiri Island observed with elevated monoterpene mixing ratios. <i>Atmospheric Environment</i> , 2002 , 36, 4929-4940	5.3	23
20	Seasonal cycles of ozone and oxidized nitrogen species in northeast Asia 1. Impact of regional climatology and photochemistry observed during RISOTTO 1999-2000. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 6-1		26
19	Seasonal cycles of ozone and oxidized nitrogen species in northeast Asia 2. A model analysis of the roles of chemistry and transport. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 13-1-ACH 13-13		19
18	Implications of iodine chemistry for daytime HO ₂ levels at Rishiri Island. <i>Geophysical Research Letters</i> , 2002 , 29, 45-1-45-4	4.9	36
17	A new peroxy-carboxylic nitric anhydride identified in the atmosphere: CH ₂ =CHC(O)OONO ₂ (APAN). <i>Geophysical Research Letters</i> , 2001 , 28, 2831-2834	4.9	26
16	Observations of APAN during TexAQS 2000. <i>Geophysical Research Letters</i> , 2001 , 28, 4195-4198	4.9	26
15	Characterization of gas chromatography-negative ion chemical ionization mass Spectrometry for ambient measurement of PAN: Potential interferences and long-term sensitivity drift. <i>Geophysical Research Letters</i> , 2000 , 27, 2089-2092	4.9	10
14	The atmospheric impact of boreal forest fires in far eastern Siberia on the seasonal variation of carbon monoxide: Observations at Rishiri, A northern remote island in Japan. <i>Geophysical Research Letters</i> , 2000 , 27, 4073-4076	4.9	81
13	Seasonal variation of carbon monoxide at remote sites in Japan. <i>Chemosphere</i> , 1999 , 1, 137-144		17

12	A new measurement technique of peroxyacetyl nitrate at parts per trillion by volume levels: Gas chromatography/negative ion chemical ionization mass spectrometry. <i>Journal of Geophysical Research</i> , 1999 , 104, 21343-21354		33
11	Evidence for the seasonal variation of photochemical activity of tropospheric ozone: Continuous observation of ozone and CO at Happo, Japan. <i>Geophysical Research Letters</i> , 1998 , 25, 3505-3508	4.9	50
10	Arctic air pollution: Challenges and opportunities for the next decade. <i>Elementa</i> , 4 , 000104	3.6	34
9	Long-term changes in lower tropospheric baseline ozone concentrations at northern mid-latitudes		7
8	Overview of the Mount Tai Experiment (MTX2006) in Central East China in June 2006: studies of significant regional air pollution		3
7	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		2
6	Cloud condensation nuclei activity at Jeju Island, Korea in spring 2005		3
5	Validation of OMI tropospheric NO ₂ column data using MAX-DOAS measurements deep inside the North China Plain in June 2006		4
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1	Representation of the Community Earth System Model (CESM1) CAM4-chem within the Chemistry-ClimateModel Initiative (CCMI)		2