

Hitoshi Irie

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/374270/hitoshi-irie-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

121
papers

3,390
citations

34
h-index

55
g-index

128
ext. papers

3,930
ext. citations

4.7
avg, IF

4.6
L-index

#	Paper	IF	Citations
121	Quality assessment of Second-generation Global Imager (SGLI)-observed cloud properties using SKYNET surface observation data. <i>Atmospheric Measurement Techniques</i> , 2022 , 15, 1967-1982	4	1
120	SKYNET 2022 , 1-11		
119	Long-Term Variation in the Tropospheric Nitrogen Dioxide Vertical Column Density over Korea and Japan from the MAX-DOAS Network, 2007-2017. <i>Remote Sensing</i> , 2021 , 13, 1937	5	0
118	Continuous multi-component MAX-DOAS observations for the planetary boundary layer ozone variation analysis at Chiba and Tsukuba, Japan, from 2013 to 2019. <i>Progress in Earth and Planetary Science</i> , 2021 , 8,	3.9	1
117	Ground-based validation of the Copernicus Sentinel-5P TROPOMI NO ₂ measurements with the NDACC ZSL-DOAS, MAX-DOAS and Pandora global networks. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 481-510	4	61
116	Variabilities in PM _{2.5} and Black Carbon Surface Concentrations Reproduced by Aerosol Optical Properties Estimated by In-Situ Data, Ground Based Remote Sensing and Modeling. <i>Remote Sensing</i> , 2021 , 13, 3163	5	0
115	Comparative assessment of TROPOMI and OMI formaldehyde observations and validation against MAX-DOAS network column measurements. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 12561-12593	6.8	11
114	Retrieval of Aerosol Optical Thickness with Custom Aerosol Model Using SKYNET Data over the Chiba Area. <i>Atmosphere</i> , 2021 , 12, 1144	2.7	0
113	Light-absorption properties of brown carbon aerosols in the Asian outflow: Implications of a combination of filter and ground remote-sensing observations at Fukue Island, Japan. <i>Science of the Total Environment</i> , 2021 , 797, 149155	10.2	
112	Glyoxal tropospheric column retrievals from TROPOMI [multi-satellite intercomparison and ground-based validation. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 7775-7807	4	2
111	Ground-based retrievals of aerosol column absorption in the UV spectral region and their implications for GEMS measurements. <i>Remote Sensing of Environment</i> , 2020 , 245, 111759	13.2	2
110	Intercomparison of NO ₂ , O ₄ , O ₃ and HCHO slant column measurements by MAX-DOAS and zenith-sky UV-visible spectrometers during CINDI-2. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 2169-2208	4	30
109	An overview of and issues with sky radiometer technology and SKYNET. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 4195-4218	4	22
108	Validation of tropospheric NO ₂ column measurements of GOME-2A and OMI using MAX-DOAS and direct sun network observations. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 6141-6174	4	12
107	Primary Evaluation of the GCOM-C Aerosol Products at 380 nm Using Ground-Based Sky Radiometer Observations. <i>Remote Sensing</i> , 2020 , 12, 2661	5	5
106	New Era of Air Quality Monitoring from Space: Geostationary Environment Monitoring Spectrometer (GEMS). <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1-E22	6.1	81
105	Simultaneous observations by sky radiometer and MAX-DOAS for characterization of biomass burning plumes in central Thailand in January-April 2016. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 599-606	4	15

104	Validation of MODIS and AHI Observed Water Cloud Properties Using Surface Radiation Data. <i>Journal of the Meteorological Society of Japan</i> , 2018 , 96B, 151-172	2.8	7
103	Impacts of Biomass Burning Emissions on Tropospheric NO ₂ Vertical Column Density over Continental Southeast Asia. <i>Springer Remote Sensing/photogrammetry</i> , 2018 , 67-81	0.2	6
102	Comparisons of spectral aerosol single scattering albedo in Seoul, South Korea. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 2295-2311	4	27
101	Visualizing spatial distribution of atmospheric nitrogen dioxide by means of hyperspectral imaging. <i>Applied Optics</i> , 2018 , 57, 5970-5977	1.7	3
100	Improving algorithms and uncertainty estimates for satellite NO ₂ retrievals: results from the quality assurance for the essential climate variables (QA4ECV) project. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 6651-6678	4	115
99	First Simultaneous Observations of Formaldehyde and Glyoxal by MAX-DOAS in the Indo-Gangetic Plain Region. <i>Scientific Online Letters on the Atmosphere</i> , 2018 , 14, 159-164	2.1	7
98	Evaluation of Himawari-8 surface downwelling solar radiation by ground-based measurements. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 2501-2521	4	36
97	First MAX-DOAS Observations of Formaldehyde and Glyoxal in Phimai, Thailand. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 9957-9975	4.4	18
96	Intelligent system in container terminal for speed-up handling process 2018 ,		1
95	Vertical profile of tropospheric ozone derived from synergetic retrieval using three different wavelength ranges, UV, IR, and microwave: sensitivity study for satellite observation. <i>Atmospheric Measurement Techniques</i> , 2018 , 11, 1653-1668	4	6
94	Voltage Control Method Utilizing Solar Radiation Data in High Spatial Resolution for Service Restoration in Distribution Networks with PV. <i>Journal of Energy Engineering - ASCE</i> , 2017 , 143,	1.7	4
93	Factors for inconsistent aerosol single scattering albedo between SKYNET and AERONET. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 1859-1877	4.4	19
92	Turnaround of Tropospheric Nitrogen Dioxide Pollution Trends in China, Japan, and South Korea. <i>Scientific Online Letters on the Atmosphere</i> , 2016 , 12, 170-174	2.1	34
91	Aerosol data assimilation using data from Himawari-8, a next-generation geostationary meteorological satellite. <i>Geophysical Research Letters</i> , 2016 , 43, 5886-5894	4.9	77
90	Intercomparison of aerosol extinction profiles retrieved from MAX-DOAS measurements. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 3205-3222	4	43
89	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
88	Spatiotemporal inhomogeneity in NO ₂ over Fukuoka observed by ground-based MAX-DOAS. <i>Atmospheric Environment</i> , 2015 , 100, 117-123	5.3	6
87	Distribution automation system for service restoration involving simultaneous disconnection and reconnection of distributed generators 2015 ,		2

86	Aerosol characteristics in Phimai, Thailand determined by continuous observation with a polarization sensitive Mie-Raman lidar and a sky radiometer. <i>Environmental Research Letters</i> , 2015 , 10, 065003	6.2	9
85	Investigations of the Diurnal Variation of Vertical HCHO Profiles Based on MAX-DOAS Measurements in Beijing: Comparisons with OMI Vertical Column Data. <i>Atmosphere</i> , 2015 , 6, 1816-1832	2-7	9
84	Evaluation of MAX-DOAS aerosol retrievals by coincident observations using CRDS, lidar, and sky radiometer in Tsukuba, Japan. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 2775-2788	4	27
83	Evaluation of MAX-DOAS aerosol retrievals by coincident observations using CRDS, lidar, and sky radiometer in Tsukuba, Japan 2015 ,		3
82	Influence of model grid resolution on NO ₂ vertical column densities over East Asia. <i>Journal of the Air and Waste Management Association</i> , 2014 , 64, 436-44	2-4	11
81	Evaluation of OMI operational standard NO ₂ column retrievals using in situ and surface-based NO ₂ observations. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 11587-11609	6.8	143
80	Retrieving tropospheric nitrogen dioxide from the Ozone Monitoring Instrument: effects of aerosols, surface reflectance anisotropy, and vertical profile of nitrogen dioxide. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1441-1461	6.8	130
79	Regional modeling of tropospheric NO ₂ vertical column density over East Asia during the period 2000-2010: comparison with multisatellite observations. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 3623-3635	6.8	51
78	Effect of surface BRDF of various land cover types on geostationary observations of tropospheric NO ₂ . <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 3497-3508	4	19
77	Long-term MAX-DOAS network observations of NO ₂ in Russia and Asia (MADRAS) during the period 2007-2012: instrumentation, elucidation of climatology, and comparisons with OMI satellite observations and global model simulations. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 7909-7927	6.8	64
76	MAX-DOAS formaldehyde slant column measurements during CINDI: intercomparison and analysis improvement. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 167-185	4	69
75	Comparison of Black Carbon Mass Concentrations Observed by Multi-Angle Absorption Photometer (MAAP) and Continuous Soot-Monitoring System (COSMOS) on Fukue Island and in Tokyo, Japan. <i>Aerosol Science and Technology</i> , 2013 , 47, 1-10	3-4	41
74	Determination of gaseous and particulate carbonyls (glycolaldehyde, hydroxyacetone, glyoxal, methylglyoxal, nonanal and decanal) in the atmosphere at Mt. Tai. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 5369-5380	6.8	51
73	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
72	Investigating the response of East Asian ozone to Chinese emission changes using a linear approach. <i>Atmospheric Environment</i> , 2012 , 55, 475-482	5-3	18
71	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
70	Quantifying the relationship between the measurement precision and specifications of a UV/visible sensor on a geostationary satellite. <i>Advances in Space Research</i> , 2012 , 49, 1743-1749	2-4	3
69	Quantitative bias estimates for tropospheric NO ₂ columns retrieved from SCIAMACHY, OMI, and GOME-2 using a common standard for East Asia. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 2403-2411	4	90

68	First quantitative bias estimates for tropospheric NO ₂ ; columns retrieved from SCIAMACHY, OMI, and GOME-2 using a common standard 2012 ,		1
67	MAXDOAS formaldehyde slant column measurements during CINDI: intercomparison and analysis improvement 2012 ,		1
66	The Cabauw Intercomparison campaign for Nitrogen Dioxide measuring Instruments (CINDI): design, execution, and early results. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 457-485	4	71
65	NO ₂ ; observations over the western Pacific and Indian Ocean by MAX-DOAS on <i>R/V Kaiyo</i> , a Japanese research vessel. <i>Atmospheric Measurement Techniques</i> , 2012 , 5, 2351-2360	4	24
64	A study of BRDF over Tokyo for the spaceborne measurements of atmospheric trace gases 2012 ,		1
63	Interannual variation in the fine-mode MODIS aerosol optical depth and its relationship to the changes in sulfur dioxide emissions in China between 2000 and 2010. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 2631-2640	6.8	48
62	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
61	Correlation of black carbon aerosol and carbon monoxide in the high-altitude environment of Mt. Huang in Eastern China. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9735-9747	6.8	63
60	A feasibility study for the detection of the diurnal variation of tropospheric NO ₂ over Tokyo from a geostationary orbit. <i>Advances in Space Research</i> , 2011 , 48, 1551-1564	2.4	4
59	Enhanced NO ₂ at Okinawa Island, Japan caused by rapid air-mass transport from China as observed by MAX-DOAS. <i>Atmospheric Environment</i> , 2011 , 45, 2593-2597	5.3	17
58	Remote sensing of tropospheric aerosol using UV MAX-DOAS during hazy conditions in winter: Utilization of O ₄ Absorption bands at wavelength intervals of 338-368 and 367-393 nm. <i>Atmospheric Environment</i> , 2011 , 45, 5760-5769	5.3	12
57	NO ₂ ; observations over the western Pacific and Indian Ocean by MAX-DOAS on <i>R/V Kaiyo</i> , a Japanese research vessel 2011 ,		3
56	Eight-component retrievals from ground-based MAX-DOAS observations 2011 ,		3
55	Eight-component retrievals from ground-based MAX-DOAS observations. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 1027-1044	4	123
54	Comparison of ambient aerosol extinction coefficients obtained from in-situ, MAX-DOAS and LIDAR measurements at Cabauw. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 2603-2624	6.8	110
53	The Cabauw Intercomparison campaign for Nitrogen Dioxide measuring Instruments (CINDI): design, execution, and early results 2011 ,		3
52	Intercomparison of slant column measurements of NO ₂ and O ₄ ; by MAX-DOAS and zenith-sky UV and visible spectrometers. <i>Atmospheric Measurement Techniques</i> , 2010 , 3, 1629-1646	4	92
51	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

50	Lower Tropospheric Aerosol Measurements by MAX-DOAS During Severe Asian Dust Period. <i>Aerosol Science and Technology</i> , 2009 , 43, 1208-1217	3-4	4
49	Retrieval of Aerosol Extinction in the Lower Troposphere Based on UV MAX-DOAS Measurements. <i>Aerosol Science and Technology</i> , 2009 , 43, 502-509	3-4	20
48	Atmospheric aerosol variations at Okinawa Island in Japan observed by MAX-DOAS using a new cloud-screening method. <i>Journal of Geophysical Research</i> , 2009 , 114,		23
47	Dual-wavelength aerosol vertical profile measurements by MAX-DOAS at Tsukuba, Japan. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 2741-2749	6.8	36
46	Characterization of OMI Tropospheric NO ₂ Measurements in East Asia Based on a Robust Validation Comparison. <i>Scientific Online Letters on the Atmosphere</i> , 2009 , 5, 117-120	2.1	20
45	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
44	First retrieval of tropospheric aerosol profiles using MAX-DOAS and comparison with lidar and sky radiometer measurements. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 341-350	6.8	124
43	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
42	Nitric acid condensation on ice: 2. Kinetic limitations, a possible "cloud clock" for determining cloud parcel lifetime. <i>Journal of Geophysical Research</i> , 2007 , 112,		3
41	Temporal evolution of ClONO ₂ observed with Improved Limb Atmospheric Spectrometer (ILAS) during Arctic late winter and early spring in 1997. <i>Journal of Geophysical Research</i> , 2007 , 112,		4
40	Comparison of box-air-mass-factors and radiances for Multiple-Axis Differential Optical Absorption Spectroscopy (MAX-DOAS) geometries calculated from different UV/visible radiative transfer models. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 1809-1833	6.8	135
39	Validation of nitric acid retrieved by the IMK-IAA processor from MIPAS/ENVISAT measurements. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 721-738	6.8	27
38	Tangent height registration method for the Version 1.4 data retrieval algorithm of the solar occultation sensor ILAS-II. <i>Applied Optics</i> , 2007 , 46, 7196-201	1.7	3
37	Ozone profiles in the high-latitude stratosphere and lower mesosphere measured by the Improved Limb Atmospheric Spectrometer (ILAS)-II: Comparison with other satellite sensors and ozonesondes. <i>Journal of Geophysical Research</i> , 2006 , 111,		23
36	Nitric acid in cirrus clouds. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	46
35	Nitric acid condensation on ice: 1. Non-HNO ₃ constituent of NO _y condensing cirrus particles on upper tropospheric. <i>Journal of Geophysical Research</i> , 2006 , 111,		3
34	Validation of stratospheric nitric acid profiles observed by Improved Limb Atmospheric Spectrometer (ILAS)-II. <i>Journal of Geophysical Research</i> , 2006 , 111,		23
33	Intercomparison of ILAS-II version 1.4 aerosol extinction coefficient at 780 nm with SAGE II, SAGE III, and POAM III. <i>Journal of Geophysical Research</i> , 2006 , 111,		7

32	Validation of ILAS-II version 1.4 O ₃ , HNO ₃ , and temperature data through comparison with ozonesonde, ground-based FTS, and lidar measurements in Alaska. <i>Journal of Geophysical Research</i> , 2006 , 111,		9
31	Measurements of ClONO ₂ by the Improved Limb Atmospheric Spectrometer (ILAS) in high-latitude stratosphere: New products using version 6.1 data processing algorithm. <i>Journal of Geophysical Research</i> , 2006 , 111,		14
30	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,		13
29	Evaluation of long-term tropospheric NO ₂ data obtained by GOME over East Asia in 1996–2002. <i>Geophysical Research Letters</i> , 2005 , 32,	4-9	55
28	Liquid ternary aerosols of HNO ₃ /H ₂ SO ₄ /H ₂ O in the Arctic tropopause region. <i>Geophysical Research Letters</i> , 2004 , 31,	4-9	5
27	Validation of CFC-12 measurements from the Improved Limb Atmospheric Spectrometer (ILAS) with the version 6.0 retrieval algorithm. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		15
26	Investigation of polar stratospheric cloud solid particle formation mechanisms using ILAS and AVHRR observations in the Arctic. <i>Geophysical Research Letters</i> , 2004 , 31,	4-9	7
25	Effects of biomass burning, lightning, and convection on O ₃ , CO, and NO _y over the tropical Pacific and Australia in August–October 1998 and 1999. <i>Journal of Geophysical Research</i> , 2003 , 108, B1B 6-1		19
24	Evidence for the nucleation of polar stratospheric clouds inside liquid particles. <i>Geophysical Research Letters</i> , 2003 , 30,	4-9	8
23	Uptake of reactive nitrogen on cirrus cloud particles in the upper troposphere and lowermost stratosphere. <i>Geophysical Research Letters</i> , 2003 , 30,	4-9	27
22	In situ HNO ₃ to NO _y instrument comparison during SOLVE. <i>Journal of Geophysical Research</i> , 2003 , 108,		18
21	Spectroscopic measurements of tropospheric CO, C ₂ H ₆ , C ₂ H ₂ , and HCN in northern Japan. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 2-1		74
20	Redistribution of reactive nitrogen in the Arctic lower stratosphere in the 1999/2000 winter. <i>Journal of Geophysical Research</i> , 2002 , 107, SOL 17-1		10
19	Validation of NO ₂ and HNO ₃ measurements from the Improved Limb Atmospheric Spectrometer (ILAS) with the version 5.20 retrieval algorithm. <i>Journal of Geophysical Research</i> , 2002 , 107, ILS 3-1		24
18	Trajectory hunting as an effective technique to validate multiplatform measurements: Analysis of the MLS, HALOE, SAGE-II, ILAS, and POAM-II data in October–November 1996. <i>Journal of Geophysical Research</i> , 2002 , 107, ACH 3-1		27
17	Redistribution of nitric acid in the Arctic lower stratosphere during the winter of 1996–1997. <i>Journal of Geophysical Research</i> , 2001 , 106, 23139-23150		13
16	Denitrification and nitrification in the Arctic stratosphere during the winter of 1996–1997. <i>Geophysical Research Letters</i> , 2000 , 27, 337-340	4-9	47
15	Seasonal variations of HCN over northern Japan measured by ground-based infrared solar spectroscopy. <i>Geophysical Research Letters</i> , 2000 , 27, 2085-2088	4-9	21

14	A comparison of Arctic HNO ₃ profiles measured by the Improved Limb Atmospheric Spectrometer and balloon-borne sensors. <i>Journal of Geophysical Research</i> , 2000 , 105, 6761-6771	31
13	NO _y -N ₂ O correlation observed inside the Arctic vortex in February 1997: Dynamical and chemical effects. <i>Journal of Geophysical Research</i> , 1999 , 104, 8215-8224	35
12	Comparison of ambient aerosol extinction coefficients obtained from in-situ, MAX-DOAS and LIDAR measurements at Cabauw	3
11	Trend analysis of tropospheric NO ₂ column density over East Asia during 2000-2010: multi-satellite observations and model simulations with the updated REAS emission inventory	2
10	An evaluation of the CMAQ reproducibility of satellite tropospheric NO ₂ column observations at different local times over East Asia	3
9	Overview of the Mount Tai Experiment (MTX2006) in Central East China in June 2006: studies of significant regional air pollution	3
8	Retrieving tropospheric nitrogen dioxide over China from the Ozone Monitoring Instrument: effects of aerosols, surface reflectance anisotropy and vertical profile of nitrogen dioxide	2
7	Determination of gaseous and particulate carbonyls (glycolaldehyde, hydroxyacetone, glyoxal, methylglyoxal, nonanal and decanal) in the atmosphere at Mt. Tai	2
6	Evaluation of OMI operational standard NO ₂ column retrievals using in situ and surface-based NO ₂ observations	6
5	Long-term MAX-DOAS network observations of NO ₂ in Russia and Asia (MADRAS) during 2007-2012: instrumentation, elucidation of climatology, and comparisons with OMI satellite observations and global model simulations	3
4	Dual-wavelength aerosol vertical profile measurements by MAX-DOAS at Tsukuba, Japan	2
3	Validation of OMI tropospheric NO ₂ column data using MAX-DOAS measurements deep inside the North China Plain in June 2006	4
2	Comparisons of spectral aerosol absorption in Seoul, South Korea	2
1	Intercomparison of NO ₂ , O ₄ , O ₃ and HCHO slant column measurements by MAX-DOAS and zenith-sky UV-Visible spectrometers during the CINDI-2 campaign	5