

Yasuhiro Sasano

List of Publications by Year in descending order

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84
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citations

331259

21
h-index

315357

38
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85
all docs

85
docs citations

85
times ranked

1231
citing authors

#	ARTICLE	IF	CITATIONS
1	Error caused by using a constant extinction/backscattering ratio in the lidar solution. Applied Optics, 1985, 24, 3929.	2.1	152
2	A new Chemical Lagrangian Model of the Stratosphere (CLaMS) 2. Formulation of chemistry scheme and initialization. Journal of Geophysical Research, 2002, 107, ACH 4-1.	3.3	147
3	Light scattering characteristics of various aerosol types derived from multiple wavelength lidar observations. Applied Optics, 1989, 28, 1670.	2.1	139
4	Tropospheric aerosol optical properties derived from lidar, sun photometer, and optical particle counter measurements. Applied Optics, 1994, 33, 7132.	2.1	93
5	Significance of the extinction/backscatter ratio and the boundary value term in the solution for the two-component lidar equation. Applied Optics, 1984, 23, 11_1.	2.1	91
6	Improved Limb Atmospheric Spectrometer (ILAS) for stratospheric ozone layer measurements by solar occultation technique. Geophysical Research Letters, 1999, 26, 197-200.	1.5	88
7	Tropospheric aerosol extinction coefficient profiles derived from scanning lidar measurements over Tsukuba, Japan, from 1990 to 1993. Applied Optics, 1996, 35, 4941.	2.1	74
8	Past changes in the vertical distribution of ozone – Part 1: Measurement techniques, uncertainties and availability. Atmospheric Measurement Techniques, 2014, 7, 1395-1427.	1.2	67
9	On Wind-Driven Current and Temperature Profiles with Diurnal Period in the Oceanic Planetary Boundary Layer. Journal of Physical Oceanography, 1979, 9, 360-372.	0.7	54
10	Optical design of cube-corner retroreflectors having curved mirror surfaces. Applied Optics, 1992, 31, 6015.	2.1	47
11	Numerical simulation of the retrieval of aerosol size distribution from multiwavelength laser radar measurements. Applied Optics, 1989, 28, 5259.	2.1	41
12	An evaluation of CO ₂ observations with Solar Occultation FTS for Inclined-Orbit Satellite sensor for surface source inversion. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	41
13	Large scale laser radar for measuring aerosol distribution over a wide area. Applied Optics, 1985, 24, 617.	2.1	37
14	Improvement on lidar data processing for stratospheric aerosol measurements. Applied Optics, 1987, 26, 5299.	2.1	37
15	Structure of a Sea-breeze Front Revealed by Scanning Lidar Observation. Journal of the Meteorological Society of Japan, 1986, 64, 787-792.	0.7	36
16	Calculation of chemical ozone loss in the Arctic winter 1996–1997 using ozone-tracer correlations: Comparison of Improved Limb Atmospheric Spectrometer (ILAS) and Halogen Occultation Experiment (HALOE) results. Journal of Geophysical Research, 2003, 108, .	3.3	33
17	Ratio of aerosol backscatter to extinction coefficients as determined from angular scattering measurements for use in atmospheric lidar applications. Optical and Quantum Electronics, 1987, 19, 293-302.	1.5	31
18	Arctic polar stratospheric clouds observed with the Improved Limb Atmospheric Spectrometer during winter 1996/1997. Journal of Geophysical Research, 2000, 105, 24715-24730.	3.3	26

#	ARTICLE	IF	CITATIONS
19	Stratification and size distribution of aerosols retrieved from simultaneous measurements with lidar, a sunphotometer, and an aureolemeter. <i>Applied Optics</i> , 1998, 37, 961.	2.1	24
20	Stratospheric ozone loss in the 1996/1997 Arctic winter: Evaluation based on multiple trajectory analysis for double-sounded air parcels by ILAS. <i>Journal of Geophysical Research</i> , 2002, 107, ILS 7-1.	3.3	24
21	Chemical ozone loss and related processes in the Antarctic winter 2003 based on Improved Limb Atmospheric Spectrometer (ILAS) observations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	24
22	Diurnal Variation of the Atmospheric Planetary Boundary Layer Observed by a Computer-Controlled Laser Radar. <i>Journal of the Meteorological Society of Japan</i> , 1980, 58, 143-148.	0.7	20
23	Spectral line parameters for CO ₂ bands in the 4.8- to 5.3- μ m region. <i>Journal of Molecular Spectroscopy</i> , 2006, 239, 1-10.	0.4	20
24	Comparison of ILAS and MkIV profiles of atmospheric trace gases measured above Alaska in May 1997. <i>Journal of Geophysical Research</i> , 2002, 107, ILS 8-1.	3.3	19
25	Development of tracer relations and chemical ozone loss during the setup phase of the polar vortex. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	19
26	Convective cell structures revealed by Mie laser radar observations and image data processing. <i>Applied Optics</i> , 1982, 21, 3166.	2.1	16
27	Observational Study on the Atmospheric Mixed Layer and Transition Layer Structures Using a Mie Lidar. <i>Journal of the Meteorological Society of Japan</i> , 1985, 63, 419-435.	0.7	16
28	DIAL measurement of lower tropospheric ozone over Saga (33.24° N, 130.29° E), Japan, and comparison with a chemistry-climate model. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 1385-1394.	1.2	16
29	Stratospheric aerosol change in the early stage of volcanic disturbance by the Pinatubo Eruption observed over Tsukuba, Japan. <i>Geophysical Research Letters</i> , 1993, 20, 575-578.	1.5	15
30	Simultaneous determination of aerosol and gas distribution by DIAL measurements. <i>Applied Optics</i> , 1988, 27, 2640.	2.1	14
31	Quantitative analysis of RHI lidar data by an iterative adjustment of the boundary condition term in the lidar solution. <i>Applied Optics</i> , 1987, 26, 615.	2.1	13
32	Observation of the Pinatubo Volcanic Cloud by Lidar Network in Japan. <i>Journal of the Meteorological Society of Japan</i> , 1993, 71, 285-296.	0.7	13
33	Aerosol Optical Properties Inferred from Simultaneous Lidar, Aerosol-Counter, and Sunphotometer Measurements. <i>Journal of the Meteorological Society of Japan</i> , 1990, 68, 729-739.	0.7	12
34	Algorithm improvement and validation of National Institute for Environmental Studies ozone differential absorption lidar at the Tsukuba Network for Detection of Stratospheric Change complementary station. <i>Applied Optics</i> , 2006, 45, 3561.	2.1	12
35	<title>Temperature and pressure retrievals from O ₂ A-band absorption measurements made by ILAS: retrieval algorithm and error analyses</title>. , 2001, 4150, 94.		11
36	Transport of methane in the stratosphere associated with the breakdown of the Antarctic polar vortex. <i>Journal of Geophysical Research</i> , 2002, 107, ILS 6-1.	3.3	11

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37	A mobile computerized laser radar system for observing rapidly varying meteorological phenomena. <i>Optical and Quantum Electronics</i> , 1980, 12, 159-167.	1.5	10
38	<title>ILAS-II instrument and data processing system for stratospheric ozone layer monitoring</title>. , 2001, 4150, 106.		9
39	Wind Profiling by a Conical-Scanning Time-Correlation Lidar. <i>Japanese Journal of Applied Physics</i> , 1990, 29, 441-444.	0.8	8
40	<title>Improved limb atmospheric spectrometer (ILAS) project: ILAS instrument, performance, and validation plan</title>. , 1995, , .		8
41	Simultaneous stratospheric gas and aerosol retrievals from broadband infrared occultation measurements. <i>Applied Optics</i> , 2005, 44, 4775.	2.1	8
42	Comparison of Ozone Profiles Obtained with NIES DIAL and SAGE II Measurements. <i>Journal of the Meteorological Society of Japan</i> , 1993, 71, 153-159.	0.7	7
43	Earth-satellite-Earth laser long-path absorption experiment using the Retroreflector in Space (RIS) on the Advanced Earth Observing Satellite (ADEOS). <i>Journal of Optics</i> , 1999, 1, 201-209.	1.5	7
44	New method for simultaneous gas and aerosol retrievals from space limb-scanning spectral observation of the atmosphere. <i>Applied Optics</i> , 2002, 41, 4234.	2.1	7
45	Improved Limb Atmospheric Spectrometer (ILAS). , 1994, 2268, 103.		6
46	Optical properties and size distribution of aerosols derived from simultaneous measurements with lidar, a sunphotometer, and an aureolemeter. <i>Applied Optics</i> , 1999, 38, 1630.	2.1	6
47	ILAS data processing for stratospheric gas and aerosol retrievals with aerosol physical modeling: Methodology and validation of gas retrievals. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	6
48	<title>Improved limb atmospheric spectrometer and retroreflector in-space for ADEOS</title>. , 1991, , .		5
49	A comparative study of stratospheric temperatures between ILAS-II and other data. , 2004, , .		5
50	Tangent height registration method for the Version 14 data retrieval algorithm of the solar occultation sensor ILAS-II. <i>Applied Optics</i> , 2007, 46, 7196.	2.1	5
51	<title>Polar stratospheric cloud detection from the ILAS instrument</title>. , 2001, 4150, 68.		4
52	Atmospheric environment monitoring by the ILAS-II onboard the ADEOS-II satellite. , 2004, , .		4
53	A differential absorption lidar system for measuring NO ₂ in the urban atmosphere.. <i>The Review of Laser Engineering</i> , 1987, 15, 170-180.	0.0	4
54	Short-time forecasting of snowfall by lidar. <i>Applied Optics</i> , 1986, 25, 2109.	2.1	3

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55	Early results from improved limb atmospheric spectrometer (ILAS) measurements. Geocarto International, 1997, 12, 61-68.	1.7	3
56	Intercomparison of ILAS/ADEOS with MIPAS-B measurements in late March 1997. , 1998, , .		3
57	<title>Feasibility study for spaceborne compact FTS and preliminary test results of laboratory model</title>. , 1999, , .		3
58	<title>Conceptual design of solar occultation FTS for Inclined-Orbit Satellite (SOFIS) on GCOM-A1</title>. , 2000, 4131, 305.		3
59	<title>Solar-occultation FTS for inclined-orbit satellite (SOFIS): scientific requirements and current status of development</title>. , 2001, , .		3
60	Current status and early results of the ILAS-II onboard the ADEOS-II Satellite. , 2004, , .		3
61	Characterization of stratospheric liquid ternary solution aerosol from broadband infrared extinction measurements. Journal of Geophysical Research, 2005, 110, .	3.3	3
62	Ozone loss rates in the Arctic winter stratosphere during 1994â€“2000 derived from POAM II/III and ILAS observations: Implications for relationships among ozone loss, PSC occurrence, and temperature. Journal of Geophysical Research, 2012, 117, .	3.3	3
63	Resolution improvement in an analog-to-digital converter by the superposed dither signal. Electronics and Communications in Japan, 1981, 64, 1-8.	0.1	2
64	NASDA mission demonstration satellite lidar project and its sciences. , 1998, , .		2
65	<title>Preliminary study on data processing algorithms for SOFIS</title>. , 2001, 4150, 174.		2
66	<title>Measurement of greenhouse gases from space with a SWIR FTS</title>. , 2002, 4485, 69.		2
67	Absorption line parameter measurements of N2O band near 8 $\frac{1}{4}$ m. Journal of Molecular Spectroscopy, 2004, 228, 213-215.	0.4	2
68	Retrieval of trace gases from aerosol-influenced infrared transmission spectra observed by low-spectral-resolution Fourier-transform spectrometers. Applied Optics, 2005, 44, 455.	2.1	2
69	<title>Conceptual design study of ILAS-II onboard ADEOS-II</title>. , 1995, , .		1
70	<title>Plan for the experiment with the retroreflector in space (RIS) on ADEOS</title>. , 1995, , .		1
71	<title>NASDA ELISE (MDS-lidar) program</title>. , 1997, , .		1
72	<title>Design and performance of the ILAS-II echelle grating spectrometer for ClONO2 measurement</title>. , 1998, , .		1

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73	<title>Instrumentation and laboratory model test results of solar occultation FTS for inclined-orbit satellite (SOFIS) on GCOM-A1</title>. , 2002, 4486, 356.		1
74	Simultaneous stratospheric gas and aerosol retrievals from broadband infrared occultation measurements: erratum. Applied Optics, 2005, 44, 6031.	2.1	1
75	Transport of KOSA and its effect on global circulation of soil particles. Lidar measurement.. The Review of Laser Engineering, 1989, 17, 268-274.	0.0	1
76	Display methods of laser radar data using a computer system. Electronics and Communications in Japan, 1981, 64, 100-106.	0.1	0
77	Optical Properties of stratospheric aerosols. Advances in Space Research, 1996, 17, 67-70.	1.2	0
78	Improved limb atmospheric spectrometer (ILAS): validation and preliminary scientific results. , 1998, , .		0
79	<title>Stratospheric background aerosols and polar stratospheric clouds observed with satellite sensors: inference of particle composition and sulfate amount</title>. , 2001, , .		0
80	<title>Analysis of chemical perturbation of stratospheric air parcel along the trajectory during the Arctic winter of 1996/1997 using ILAS data</title>. , 2001, , .		0
81	Introduction of SOFIS/FTS calibration system. , 2002, , .		0
82	Relationship between denitrification and hydrate saturations: a comparison of ILAS observations with nucleation models. , 2003, , .		0
83	Stratospheric ozone layer observations over tsukuba, Japan by NIES ozone DIAL.. , 2007, , .		0
84	Resolution improvement in an analog-to-digital converter by the superposed dither signal. Electronics & Communications in Japan, 1981, 64, 1-8.	0.0	0