Lieven Clarisse

List of Publications by Year
in descending order

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161 papers	10,358 citations	34105 52 h-index	42399 92 g-index
266 all docs	266 docs citations	266 times ranked	7618 citing authors

#	Article	IF	Citations
1	Present and future land surface and wet bulb temperatures in the Arabian Peninsula. Environmental Research Letters, 2022, 17, 044029.	5.2	13
2	Variability of the Aerosol Content in the Tropical Lower Stratosphere from 2013 to 2019: Evidence of Volcanic Eruption Impacts. Atmosphere, 2022, 13, 250.	2.3	3
3	Time evolution of temperature profiles retrieved from 13 years of infrared atmospheric sounding interferometer (IASI) data using an artificial neural network. Atmospheric Measurement Techniques, 2022, 15, 1779-1793.	3.1	3
4	Simulation of organics in the atmosphere: evaluation of EMACv2.54 with the Mainz Organic Mechanism (MOM) coupled to the ORACLE (v1.0) submodel. Geoscientific Model Development, 2022, 15, 2673-2710.	3.6	13
5	Rapid rise in premature mortality due to anthropogenic air pollution in fast-growing tropical cities from 2005 to 2018. Science Advances, 2022, 8, eabm4435.	10.3	31
6	Volcanic SO₂ layer height by TROPOMI/S5P: evaluation against IASI/MetOp and CALIOP/CALIPSO observations. Atmospheric Chemistry and Physics, 2022, 22, 5665-5683.	4.9	5
7	Understanding the Simulated Ammonia Increasing Trend from 2008 to 2015 over Europe with CHIMERE and Comparison with IASI Observations. Atmosphere, 2022, 13, 1101.	2.3	2
8	Ground-based measurements of atmospheric NH3 by Fourier transform infrared spectrometry at Hefei and comparisons with IASI data. Atmospheric Environment, 2022, 287, 119256.	4.1	6
9	First retrievals of peroxyacetyl nitrate (PAN) from ground-based FTIR solar spectra recorded at remote sites, comparison with model and satellite data. Elementa, 2021, 9, .	3.2	7
10	High-resolution hybrid inversion of IASI ammonia columns to constrain US ammonia emissions using the CMAQ adjoint model. Atmospheric Chemistry and Physics, 2021, 21, 2067-2082.	4.9	22
11	Multiscale observations of NH₃ around Toronto, Canada. Atmospheric Measurement Techniques, 2021, 14, 905-921.	3.1	7
12	Monthly Patterns of Ammonia Over the Contiguous United States at 2â€‰km Resolution. Geophysical Research Letters, 2021, 48, e2020GL090579.	4.0	16
13	Identification of Short and Longâ€‐Lived Atmospheric Trace Gases From IASI Space Observations. Geophysical Research Letters, 2021, 48, e2020GL091742.	4.0	9
14	10-year satellite-constrained fluxes of ammonia improve performance of chemistry transport models. Atmospheric Chemistry and Physics, 2021, 21, 4431-4451.	4.9	21
15	Long-term trends in air quality in major cities in the UK and India: a view from space. Atmospheric Chemistry and Physics, 2021, 21, 6275-6296.	4.9	31
16	Analysis of atmospheric ammonia over South and East Asia based on the MOZART-4 model and its comparison with satellite and surface observations. Atmospheric Chemistry and Physics, 2021, 21, 6389-6409.	4.9	8
17	Ubiquitous atmospheric production of organic acids mediated by cloud droplets. Nature, 2021, 593, 233-237.	27.8	71
18	Validation of IASI Satellite Ammonia Observations at the Pixel Scale Using In Situ Vertical Profiles. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033475.	3.3	28

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19	Convergent evidence for the pervasive but limited contribution of biomass burning to atmospheric ammonia in peninsular Southeast Asia. Atmospheric Chemistry and Physics, 2021, 21, 7187-7198.	4.9	8
20	IASIâ€Derived Sea Surface Temperature Data Set for Climate Studies. Earth and Space Science, 2021, 8, e2020EA001427.	2.6	4
21	Global, regional and national trends of atmospheric ammonia derived from a decadal (2008â€“2018) satellite record. Environmental Research Letters, 2021, 16, 055017.	5.2	65
22	Tropospheric Volcanic SO2 Mass and Flux Retrievals from Satellite. The Etna December 2018 Eruption. Remote Sensing, 2021, 13, 2225.	4.0	11
23	The Diel Cycle of NH₃ Observed From the FYâ€4A Geostationary Interferometric Infrared Sounder (GIIRS). Geophysical Research Letters, 2021, 48, e2021GL093010.	4.0	11
24	The impact of organic pollutants from Indonesian peatland fires on the tropospheric and lower stratospheric composition. Atmospheric Chemistry and Physics, 2021, 21, 11257-11288.	4.9	8
25	Atmospheric Impacts of COVID-19 on NOx and VOC Levels over China Based on TROPOMI and IASI Satellite Data and Modeling. Atmosphere, 2021, 12, 946.	2.3	13
26	Continental and Ecoregionâ€Specific Drivers of Atmospheric NO₂ and NH₃ Seasonality Over Africa Revealed by Satellite Observations. Global Biogeochemical Cycles, 2021, 35, e2020GB006916.	4.9	5
27	UK Ammonia Emissions Estimated With Satellite Observations and GEOSâ€Chem. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035237.	3.3	24
28	Ammonia and PM2.5 Air Pollution in Paris during the 2020 COVID Lockdown. Atmosphere, 2021, 12, 160.	2.3	32
29	Atmospheric Composition Applications with IASI and next-generation hyperspectral infrared sounders (IASI-NG and IRS). , 2021, , .		1
30	Trends in spectrally resolved outgoing longwave radiation from 10 years of satellite measurements. Npj Climate and Atmospheric Science, 2021, 4, .	6.8	8
31	EUNADICS-AV early warning system dedicated to supporting aviation in the case of a crisis from natural airborne hazards and radionuclide clouds. Natural Hazards and Earth System Sciences, 2021, 21, 3367-3405.	3.6	8
32	A sulfur dioxide Covariance-Based Retrieval Algorithm (COBRA): application to TROPOMI reveals new emission sources. Atmospheric Chemistry and Physics, 2021, 21, 16727-16744.	4.9	19
33	Changes in biomass burning, wetland extent, or agriculture drive atmospheric NH₃ trends in select African regions. Atmospheric Chemistry and Physics, 2021, 21, 16277-16291.	4.9	3
34	A space view of agricultural and industrial changes during the Syrian civil war. Elementa, 2021, 9, .	3.2	3
35	Estimating exposure to hydrogen sulfide from animal husbandry operations using satellite ammonia as a proxy: Methodology demonstration. Science of the Total Environment, 2020, 709, 134508.	8.0	4
36	Artificial Neural Networks to Retrieve Land and Sea Skin Temperature from IASI. Remote Sensing, 2020, 12, 2777.	4.0	10

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37	Global nitrous acid emissions and levels of regional oxidants enhanced by wildfires. Nature Geoscience, 2020, 13, 681-686.	12.9	51
38	Ten-Year Assessment of IASI Radiance and Temperature. Remote Sensing, 2020, 12, 2393.	4.0	18
39	Record high levels of atmospheric ammonia over India: Spatial and temporal analyses. Science of the Total Environment, 2020, 740, 139986.	8.0	61
40	Atmospheric ammonia variability and link with particulate matter formation: a case study over the Paris area. Atmospheric Chemistry and Physics, 2020, 20, 577-596.	4.9	24
41	Ammonia Emissions from Mudflats of River, Lake, and Sea. ACS Earth and Space Chemistry, 2020, 4, 614-619.	2.7	5
42	Investigating the Large-Scale Transport of a Volcanic Plume and the Impact on a Secondary Site. Atmosphere, 2020, 11, 548.	2.3	4
43	Spaceborne Measurements of Formic and Acetic Acids: A Global View of the Regional Sources. Geophysical Research Letters, 2020, 47, e2019GL086239.	4.0	21
44	Constraints on eruption processes and event masses for the 2016â€“2017 eruption of Bogoslof volcano, Alaska, through evaluation of IASI satellite SO2 masses and complementary datasets. Bulletin of Volcanology, 2020, 82, 1.	3.0	15
45	Spectrally Resolved Fluxes from IASI Data: Retrieval Algorithm for Clear-Sky Measurements. Journal of Climate, 2020, 33, 6971-6988.	3.2	7
46	Complex refractive index of volcanic ash aerosol in the infrared, visible, and ultraviolet. Applied Optics, 2020, 59, 884.	1.8	17
47	Do alternative inventories converge on the spatiotemporal representation of spring ammonia emissions in France?. Atmospheric Chemistry and Physics, 2020, 20, 13481-13495.	4.9	11
48	Prototyping of a Multi-Hazard Early Warning System for Aviation and Development of NRT Alert Products within the EUNADICS-AV and OPAS Projects. , 2020, , .		0
49	A multi-sensor satellite-based archive of the largest SO₂ volcanic eruptions since 2006. Earth System Science Data, 2020, 12, 3139-3159.	9.9	5
50	The 2015 Calbuco Volcanic Cloud Detection Using GNSS Radio Occultation and Satellite Lidar. , 2020, , .		2
51	Unprecedented Atmospheric Ammonia Concentrations Detected in the High Arctic From the 2017 Canadian Wildfires. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8178-8202.	3.3	25
52	Tracking down global NH₃ point sources with wind-adjusted superresolution. Atmospheric Measurement Techniques, 2019, 12, 5457-5473.	3.1	39
53	Initial constraints on triggering mechanisms of the eruption of Fuego volcano (Guatemala) from 3 June 2018 using IASI satellite data. Journal of Volcanology and Geothermal Research, 2019, 376, 54-61.	2.1	25
54	The unintended consequence of SO₂ and NO₂ regulations over China: increase of ammonia levels and impact on PM_{2.5} concentrations. Atmospheric Chemistry and Physics, 2019, 19, 6701-6716.	4.9	63

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55	Atmospheric ammonia (NH3) emanations from Lake Natronâ€™s saline mudflats. Scientific Reports, 2019, 9, 4441.	3.3	24
56	A Decadal Data Set of Global Atmospheric Dust Retrieved From IASI Satellite Measurements. Journal of Geophysical Research D: Atmospheres, 2019, 124, 1618-1647.	3.3	32
57	Acetone Atmospheric Distribution Retrieved From Space. Geophysical Research Letters, 2019, 46, 2884-2893.	4.0	18
58	NH₃ emissions from large point sources derived from CrIS and IASI satellite observations. Atmospheric Chemistry and Physics, 2019, 19, 12261-12293.	4.9	89
59	Sulfur dioxide layer height retrieval from Sentinel-5 Precursor/TROPOMI using FP_ILM. Atmospheric Measurement Techniques, 2019, 12, 5503-5517.	3.1	58
60	Large-scale particulate air pollution and chemical fingerprint of volcanic sulfate aerosols from the 2014â€“2015 Holuhraun flood lava eruption of BÃ¡rÃ°arbunga volcano (Iceland). Atmospheric Chemistry and Physics, 2019, 19, 14253-14287.	4.9	15
61	Model simulations of the chemical and aerosol microphysical evolution of the Sarychev Peak 2009 eruption cloud compared to in situ and satellite observations. Atmospheric Chemistry and Physics, 2018, 18, 3223-3247.	4.9	17
62	A General Framework for Global Retrievals of Trace Gases From IASI: Application to Methanol, Formic Acid, and PAN. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13,963.	3.3	38
63	A physics-based approach to oversample multi-satellite, multispecies observations to a common grid. Atmospheric Measurement Techniques, 2018, 11, 6679-6701.	3.1	64
64	Industrial and agricultural ammonia point sources exposed. Nature, 2018, 564, 99-103.	27.8	312
65	Stratospheric aerosol radiative forcing simulated by the chemistry climate model EMAC using Aerosol CCI satellite data. Atmospheric Chemistry and Physics, 2018, 18, 12845-12857.	4.9	17
66	Validation of mobile in situ measurements of dairy husbandry emissions by fusion of airborne/surface remote sensing with seasonalÂcontext from the Chino Dairy Complex. Environmental Pollution, 2018, 242, 2111-2134.	7.5	9
67	IASI's sensitivity to near-surface carbon monoxide (CO): Theoretical analyses and retrievals on test cases. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 189, 428-440.	2.3	23
68	Strong constraints on aerosolâ€“cloud interactions from volcanic eruptions. Nature, 2017, 546, 485-491.	27.8	191
69	Remote sensing and in situ measurements of methane and ammonia emissions from a megacity dairy complex: Chino, CA. Environmental Pollution, 2017, 221, 37-51.	7.5	19
70	Ammonia Emissions May Be Substantially Underestimated in China. Environmental Science & Technology, 2017, 51, 12089-12096.	10.0	160
71	Observation of Air Pollution over China Using the IASI Thermal Infrared Space Sensor. , 2017, , 309-322.		2
72	Gasâ€aerosol partitioning of ammonia in biomass burning plumes: Implications for the interpretation of spaceborne observations of ammonia and the radiative forcing of ammonium nitrate. Geophysical Research Letters, 2017, 44, 8084-8093.	4.0	30

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73	IASI-derived NH₃ enhancement ratios relative to CO for the tropical biomass burning regions. Atmospheric Chemistry and Physics, 2017, 17, 12239-12252.	4.9	12
74	Long-range transport of stratospheric aerosols in the Southern Hemisphere following the 2015 Calbuco eruption. Atmospheric Chemistry and Physics, 2017, 17, 15019-15036.	4.9	32
75	Temporal and spatial variability of ammonia in urban and agricultural regions of northern Colorado, United States. Atmospheric Chemistry and Physics, 2017, 17, 6197-6213.	4.9	53
76	Version 2 of the IASI NH₃ neural network retrieval algorithm: near-real-time and reanalysed datasets. Atmospheric Measurement Techniques, 2017, 10, 4905-4914.	3.1	118
77	Retrieval of near-surface sulfur dioxide (SO₂) concentrations at a global scale using IASI satellite observations. Atmospheric Measurement Techniques, 2016, 9, 721-740.	3.1	36
78	Infrared Sounding of Volcanic Ash. , 2016, , 189-215.		14
79	Development, Production and Evaluation of Aerosol Climate Data Records from European Satellite Observations (Aerosol_cci). Remote Sensing, 2016, 8, 421.	4.0	131
80	A flexible and robust neural network IASIâ€NH‹sub›3‹/sub› retrieval algorithm. Journal of Geophysical Research D: Atmospheres, 2016, 121, 6581-6599.	3.3	96
81	Stratospheric aerosol-Observations, processes, and impact on climate. Reviews of Geophysics, 2016, 54, 278-335.	23.0	265
82	Doubling of annual ammonia emissions from the peat fires in Indonesia during the 2015 El NiÃ±o. Geophysical Research Letters, 2016, 43, 11,007.	4.0	41
83	Unaccounted variability in NH 3 agricultural sources detected by IASI contributing to European spring haze episode. Geophysical Research Letters, 2016, 43, 5475-5482.	4.0	37
84	Current challenges in modelling far-range air pollution induced by the 2014â€“2015 BÃ¡rÃ°arbunga fissure eruption (Iceland). Atmospheric Chemistry and Physics, 2016, 16, 10831-10845.	4.9	10
85	Using satelliteâ€based measurements to explore spatiotemporal scales and variability of drivers of new particle formation. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12217-12235.	3.3	5
86	An evaluation of IASI-NH₃ with ground-based Fourier transform infrared spectroscopy measurements. Atmospheric Chemistry and Physics, 2016, 16, 10351-10368.	4.9	56
87	Interannual variability of ammonia concentrations over the United States: sources and implications. Atmospheric Chemistry and Physics, 2016, 16, 12305-12328.	4.9	48
88	Validation of ash optical depth and layer height retrieved from passive satellite sensors using EARLINET and airborne lidar data: the case of the EyjafjallajÃ¶kull eruption. Atmospheric Chemistry and Physics, 2016, 16, 5705-5720.	4.9	13
89	Validation of ASH Optical Depth and Layer Height from IASI using Earlinet Lidar Data. EPJ Web of Conferences, 2016, 119, 07006.	0.3	0
90	Multi-decadal satellite measurements of global volcanic degassing. Journal of Volcanology and Geothermal Research, 2016, 311, 99-134.	2.1	234

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91	Sulfur dioxide vertical column DOAS retrievals from the Ozone Monitoring Instrument: Global observations and comparison to groundâ€based and satellite data. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2470-2491.	3.3	79
92	Worldwide spatiotemporal atmospheric ammonia (NH₃) columns variability revealed by satellite. Geophysical Research Letters, 2015, 42, 8660-8668.	4.0	66
93	Temporal variations of flux and altitude of sulfur dioxide emissions during volcanic eruptions: implications for long-range dispersal of volcanic clouds. Atmospheric Chemistry and Physics, 2015, 15, 8381-8400.	4.9	16
94	Acetylene (C₂H₂) and hydrogen cyanide (HCN) from IASI satellite observations: global distributions, validation, and comparison with model. Atmospheric Chemistry and Physics, 2015, 15, 10509-10527.	4.9	7
95	Instantaneous longwave radiative impact of ozone: an application on IASI/MetOp observations. Atmospheric Chemistry and Physics, 2015, 15, 12971-12987.	4.9	14
96	Ammonia emissions in tropical biomass burning regions: Comparison between satellite-derived emissions and bottom-up fire inventories. Atmospheric Environment, 2015, 121, 42-54.	4.1	78
97	Cross-validation of IASI/MetOp derived tropospheric ÎˇD with TES and ground-based FTIR observations. Atmospheric Measurement Techniques, 2015, 8, 1447-1466.	3.1	13
98	Towards validation of ammonia (NH₃) measurements from the IASI satellite. Atmospheric Measurement Techniques, 2015, 8, 1575-1591.	3.1	90
99	Tracking pollutants from space: Eight years of IASI satellite observation. Comptes Rendus - Geoscience, 2015, 347, 134-144.	1.2	21
100	Separation of ash and sulfur dioxide during the 2011 GrÃ¬msvÃ¶tn eruption. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7477-7501.	3.3	69
101	Support to Aviation Control Service (SACS): an online service for near-real-time satellite monitoring of volcanic plumes. Natural Hazards and Earth System Sciences, 2014, 14, 1099-1123.	3.6	85
102	First simultaneous space measurements of atmospheric pollutants in the boundary layer from IASI: A case study in the North China Plain. Geophysical Research Letters, 2014, 41, 645-651.	4.0	57
103	IASI observations of sulfur dioxide (SO₂) in the boundary layer of Norilsk. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4253-4263.	3.3	42
104	First satellite detection of volcanic OClO after the eruption of Puyehueâ€CordÃ³n Caulle. Geophysical Research Letters, 2014, 41, 667-672.	4.0	35
105	Evaluating 4 years of atmospheric ammonia (NH₃) over Europe using IASI satellite observations and LOTOSâ€EUROS model results. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9549-9566.	3.3	61
106	Global distributions, time series and error characterization of atmospheric ammonia (NH₃) from IASI satellite observations. Atmospheric Chemistry and Physics, 2014, 14, 2905-2922.	4.9	195
107	The 2011 Nabro eruption, a SO₂ plume height analysis using IASI measurements. Atmospheric Chemistry and Physics, 2014, 14, 3095-3111.	4.9	93
108	Improving volcanic sulfur dioxide cloud dispersal forecasts by progressive assimilation of satellite observations. Geophysical Research Letters, 2014, 41, 2637-2643.	4.0	20

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109	Operational Integration of Spaceborne Measurements of Lava Discharge Rates and Sulfur Dioxide Concentrations for Global Volcano Monitoring. Advanced Technologies in Earth Sciences, 2014, , 307-331.	0.9	4
110	IASI/MetOp sounder contribution for atmospheric composition monitoring: 4-year study of radiance data. , 2013, , .		0
111	The sulfur budget of the 2011 GrÃmsvÃ¶tn eruption, Iceland. Geophysical Research Letters, 2013, 40, 6095-6100.	4.0	33
112	Towards a climate-dependent paradigm of ammonia emission and deposition. Philosophical Transactions of the Royal Society B: Biological Sciences, 2013, 368, 20130166.	4.0	328
113	A unified approach to infrared aerosol remote sensing and type specification. Atmospheric Chemistry and Physics, 2013, 13, 2195-2221.	4.9	105
114	Exceptional emissions of NH₃ and HCOOH in the 2010 Russian wildfires. Atmospheric Chemistry and Physics, 2013, 13, 4171-4181.	4.9	76
115	Inverting for volcanic SO₂ flux at high temporal resolution using spaceborne plume imagery and chemistry-transport modelling: the 2010 EyjafjallajÃ¶kull eruption case study. Atmospheric Chemistry and Physics, 2013, 13, 8569-8584.	4.9	46
116	Volcanic SO₂ fluxes derived from satellite data: a survey using OMI, GOME-2, IASI and MODIS. Atmospheric Chemistry and Physics, 2013, 13, 5945-5968.	4.9	151
117	Stratospheric aerosols from the Sarychev volcano eruption in the 2009 Arctic summer. Atmospheric Chemistry and Physics, 2013, 13, 6533-6552.	4.9	37
118	Measurements of hydrogen cyanide (HCN) and acetylene (C₂H₂) from the Infrared Atmospheric Sounding Interferometer (IASI). Atmospheric Measurement Techniques, 2013, 6, 917-925.	3.1	12
119	Retrieval of sulphur dioxide from the infrared atmospheric sounding interferometer (IASI). Atmospheric Measurement Techniques, 2012, 5, 581-594.	3.1	150
120	Hyperspectral Earth Observation from IASI: Five Years of Accomplishments. Bulletin of the American Meteorological Society, 2012, 93, 347-370.	3.3	357
121	Satellite evidence for a large source of formic acid from boreal and tropical forests. Nature Geoscience, 2012, 5, 26-30.	12.9	171
122	Mid-tropospheric ÎD observations from IASI/MetOp at high spatial and temporal resolution. Atmospheric Chemistry and Physics, 2012, 12, 10817-10832.	4.9	62
123	Tropospheric methanol observations from space: retrieval evaluation and constraints on the seasonality of biogenic emissions. Atmospheric Chemistry and Physics, 2012, 12, 5897-5912.	4.9	39
124	Mixing of dust and NH₃ observed globally over anthropogenic dust sources. Atmospheric Chemistry and Physics, 2012, 12, 7351-7363.	4.9	37
125	Atmospheric ammonia and particulate inorganic nitrogen over the United States. Atmospheric Chemistry and Physics, 2012, 12, 10295-10312.	4.9	240
126	The 2010 explosive eruption of Java's Merapi volcanoâ€"A â€˜100-yearâ€™ event. Journal of Volcanology and Geothermal Research, 2012, 241-242, 121-135.	2.1	336

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127	A case study of observations of volcanic ash from the EyjafjallajÃ¶kull eruption: 2. Airborne and satellite radiative measurements. Journal of Geophysical Research, 2012, 117, .	3.3	47
128	A comparison of atmospheric dispersion model predictions with observations of SO₂ and sulphate aerosol from volcanic eruptions. Journal of Geophysical Research, 2012, 117, .	3.3	26
129	Aerosol properties of the EyjafjallajÃ¶kull ash derived from sun photometer and satellite observations over the Iberian Peninsula. Atmospheric Environment, 2012, 48, 22-32.	4.1	26
130	FORLI radiative transfer and retrieval code for IASI. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1391-1408.	2.3	162
131	Thermal infrared nadir observations of 24 atmospheric gases. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	88
132	Infrared satellite observations of hydrogen sulfide in the volcanic plume of the August 2008 Kasatochi eruption. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	34
133	Intercontinental transport of anthropogenic sulfur dioxide and other pollutants: An infrared remote sensing case study. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	32
134	Evaluating the structure and magnitude of the ash plume during the initial phase of the 2010 EyjafjallajÃ¶kull eruption using lidar observations and NAME simulations. Journal of Geophysical Research, 2011, 116, .	3.3	93
135	TES ammonia retrieval strategy and global observations of the spatial and seasonal variability of ammonia. Atmospheric Chemistry and Physics, 2011, 11, 10743-10763.	4.9	129
136	Determination of time- and height-resolved volcanic ash emissions and their use for quantitative ash dispersion modeling: the 2010 EyjafjallajÃ¶kull eruption. Atmospheric Chemistry and Physics, 2011, 11, 4333-4351.	4.9	333
137	Global distributions of methanol and formic acid retrieved for the first time from the IASI/MetOp thermal infrared sounder. Atmospheric Chemistry and Physics, 2011, 11, 857-872.	4.9	71
138	First space-based derivation of the global atmospheric methanol emission fluxes. Atmospheric Chemistry and Physics, 2011, 11, 4873-4898.	4.9	122
139	Measuring volcanic degassing of SO2 in the lower troposphere with ASTER band ratios. Journal of Volcanology and Geothermal Research, 2010, 194, 42-54.	2.1	47
140	The infrared spectral signature of volcanic ash determined from high-spectral resolution satellite measurements. Remote Sensing of Environment, 2010, 114, 414-425.	11.0	82
141	Detection of volcanic SO₂, ash, and H₂SO₄ using the Infrared Atmospheric Sounding Interferometer (IASI). Journal of Geophysical Research, 2010, 115, .	3.3	117
142	Satellite monitoring of ammonia: A case study of the San Joaquin Valley. Journal of Geophysical Research, 2010, 115, .	3.3	118
143	Ash and sulfur dioxide in the 2008 eruptions of Okmok and Kasatochi: Insights from high spectral resolution satellite measurements. Journal of Geophysical Research, 2010, 115, .	3.3	59
144	A correlation method for volcanic ash detection using hyperspectral infrared measurements. Geophysical Research Letters, 2010, 37, .	4.0	82

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145	Observations of the eruption of the Sarychev volcano and simulations using the HadGEM2 climate model. Journal of Geophysical Research, 2010, 115, .	3.3	128
146	Retrieving radius, concentration, optical depth, and mass of different types of aerosols from high-resolution infrared nadir spectra. Applied Optics, 2010, 49, 3713.	2.1	80
147	Satellite Monitoring of Volcanic Sulfur Dioxide Emissions for Early Warning of Volcanic Hazards. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2009, 2, 196-206.	4.9	67
148	Global ammonia distribution derived from infrared satellite observations. Nature Geoscience, 2009, 2, 479-483.	12.9	400
149	Distributions and seasonal variations of tropospheric ethene (C₂H₄) from Atmospheric Chemistry Experiment (ACEâ€FTS) solar occultation spectra. Geophysical Research Letters, 2009, 36, .	4.0	12
150	H₂¹⁶O and HDO measurements with IASI/MetOp. Atmospheric Chemistry and Physics, 2009, 9, 9433-9447.	4.9	74
151	IASI measurements of reactive trace species in biomass burning plumes. Atmospheric Chemistry and Physics, 2009, 9, 5655-5667.	4.9	165
152	Monitoring of atmospheric composition using the thermal infrared IASI/MetOp sounder. Atmospheric Chemistry and Physics, 2009, 9, 6041-6054.	4.9	694
153	Characterization of methane retrievals from the IASI space-borne sounder. Atmospheric Chemistry and Physics, 2009, 9, 7889-7899.	4.9	148
154	Measurements of SO₂ profiles in volcanic plumes from the NASA Tropospheric Emission Spectrometer (TES). Geophysical Research Letters, 2008, 35, .	4.0	37
155	Tracking and quantifying volcanic SO₂ with IASI, the September 2007 eruption at Jebel at Tair. Atmospheric Chemistry and Physics, 2008, 8, 7723-7734.	4.9	136
156	The disentangling power of unitaries. Physics Letters, Section A: General, Atomic and Solid State Physics, 2007, 365, 400-402.	2.1	5
157	Construction of bound entangled edge states with special ranks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 359, 603-607.	2.1	32
158	On the Schmidt robustness of pure states. Journal of Physics A, 2006, 39, 4239-4249.	1.6	7
159	On independent permutation separability criteria. Quantum Information and Computation, 2006, 6, 277-288.	0.3	18
160	Entangling power of permutations. Physical Review A, 2005, 72, .	2.5	30
161	Characterization of distillability of entanglement in terms of positive maps. Physical Review A, 2005, 71, .	2.5	19