

Lieven Clarisse

List of Publications by Year in descending order

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161
papers

10,358
citations

34076

52
h-index

42364

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. <i>Environmental Research Letters</i> , 2022, 17, 044029.	2.2	13
2	Variability of the Aerosol Content in the Tropical Lower Stratosphere from 2013 to 2019: Evidence of Volcanic Eruption Impacts. <i>Atmosphere</i> , 2022, 13, 250.	1.0	3
3	Time evolution of temperature profiles retrieved from 13 years of infrared atmospheric sounding interferometer (IASI) data using an artificial neural network. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 1779-1793.	1.2	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. <i>Geoscientific Model Development</i> , 2022, 15, 2673-2710.	1.3	13
5	Rapid rise in premature mortality due to anthropogenic air pollution in fast-growing tropical cities from 2005 to 2018. <i>Science Advances</i> , 2022, 8, eabm4435.	4.7	31
6	Volcanic SO ₂ layer height by TROPOMI/S5P: evaluation against IASI/MetOp and CALIOP/CALIPSO observations. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 5665-5683.	1.9	5
7	Understanding the Simulated Ammonia Increasing Trend from 2008 to 2015 over Europe with CHIMERE and Comparison with IASI Observations. <i>Atmosphere</i> , 2022, 13, 1101.	1.0	2
8	Ground-based measurements of atmospheric NH ₃ by Fourier transform infrared spectrometry at Hefei and comparisons with IASI data. <i>Atmospheric Environment</i> , 2022, 287, 119256.	1.9	6
9	First retrievals of peroxyacetyl nitrate (PAN) from ground-based FTIR solar spectra recorded at remote sites, comparison with model and satellite data. <i>Elementa</i> , 2021, 9, .	1.1	7
10	High-resolution hybrid inversion of IASI ammonia columns to constrain US ammonia emissions using the CMAQ adjoint model. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 2067-2082.	1.9	22
11	Multiscale observations of NH ₃ around Toronto, Canada. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 905-921.	1.2	7
12	Monthly Patterns of Ammonia Over the Contiguous United States at 2 km Resolution. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090579.	1.5	16
13	Identification of Short and Long-Lived Atmospheric Trace Gases From IASI Space Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091742.	1.5	9
14	10-year satellite-constrained fluxes of ammonia improve performance of chemistry transport models. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 4431-4451.	1.9	21
15	Long-term trends in air quality in major cities in the UK and India: a view from space. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6275-6296.	1.9	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. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6389-6409.	1.9	8
17	Ubiquitous atmospheric production of organic acids mediated by cloud droplets. <i>Nature</i> , 2021, 593, 233-237.	13.7	71
18	Validation of IASI Satellite Ammonia Observations at the Pixel Scale Using In Situ Vertical Profiles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033475.	1.2	28

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19	Convergent evidence for the pervasive but limited contribution of biomass burning to atmospheric ammonia in peninsular Southeast Asia. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 7187-7198.	1.9	8
20	IASI-Derived Sea Surface Temperature Data Set for Climate Studies. <i>Earth and Space Science</i> , 2021, 8, e2020EA001427.	1.1	4
21	Global, regional and national trends of atmospheric ammonia derived from a decadal (2008–2018) satellite record. <i>Environmental Research Letters</i> , 2021, 16, 055017.	2.2	65
22	Tropospheric Volcanic SO ₂ Mass and Flux Retrievals from Satellite. The Etna December 2018 Eruption. <i>Remote Sensing</i> , 2021, 13, 2225.	1.8	11
23	The Diel Cycle of NH ₃ Observed From the FY-4A Geostationary Interferometric Infrared Sounder (GIIRS). <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093010.	1.5	11
24	The impact of organic pollutants from Indonesian peatland fires on the tropospheric and lower stratospheric composition. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 11257-11288.	1.9	8
25	Atmospheric Impacts of COVID-19 on NO _x and VOC Levels over China Based on TROPOMI and IASI Satellite Data and Modeling. <i>Atmosphere</i> , 2021, 12, 946.	1.0	13
26	Continental and Ecoregion-Specific Drivers of Atmospheric NO ₂ and NH ₃ Seasonality Over Africa Revealed by Satellite Observations. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2020GB006916.	1.9	5
27	UK Ammonia Emissions Estimated With Satellite Observations and GEOS-Chem. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035237.	1.2	24
28	Ammonia and PM _{2.5} Air Pollution in Paris during the 2020 COVID Lockdown. <i>Atmosphere</i> , 2021, 12, 160.	1.0	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. <i>Npj Climate and Atmospheric Science</i> , 2021, 4, .	2.6	8
31	EUNADICS-AV early warning system dedicated to supporting aviation in the case of a crisis from natural airborne hazards and radionuclide clouds. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 3367-3405.	1.5	8
32	A sulfur dioxide Covariance-Based Retrieval Algorithm (COBRA): application to TROPOMI reveals new emission sources. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16727-16744.	1.9	19
33	Changes in biomass burning, wetland extent, or agriculture drive atmospheric NH ₃ trends in select African regions. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 16277-16291.	1.9	3
34	A space view of agricultural and industrial changes during the Syrian civil war. <i>Elementa</i> , 2021, 9, .	1.1	3
35	Estimating exposure to hydrogen sulfide from animal husbandry operations using satellite ammonia as a proxy: Methodology demonstration. <i>Science of the Total Environment</i> , 2020, 709, 134508.	3.9	4
36	Artificial Neural Networks to Retrieve Land and Sea Skin Temperature from IASI. <i>Remote Sensing</i> , 2020, 12, 2777.	1.8	10

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37	Global nitrous acid emissions and levels of regional oxidants enhanced by wildfires. <i>Nature Geoscience</i> , 2020, 13, 681-686.	5.4	51
38	Ten-Year Assessment of IASI Radiance and Temperature. <i>Remote Sensing</i> , 2020, 12, 2393.	1.8	18
39	Record high levels of atmospheric ammonia over India: Spatial and temporal analyses. <i>Science of the Total Environment</i> , 2020, 740, 139986.	3.9	61
40	Atmospheric ammonia variability and link with particulate matter formation: a case study over the Paris area. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 577-596.	1.9	24
41	Ammonia Emissions from Mudflats of River, Lake, and Sea. <i>ACS Earth and Space Chemistry</i> , 2020, 4, 614-619.	1.2	5
42	Investigating the Large-Scale Transport of a Volcanic Plume and the Impact on a Secondary Site. <i>Atmosphere</i> , 2020, 11, 548.	1.0	4
43	Spaceborne Measurements of Formic and Acetic Acids: A Global View of the Regional Sources. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086239.	1.5	21
44	Constraints on eruption processes and event masses for the 2016–2017 eruption of Bogoslof volcano, Alaska, through evaluation of IASI satellite SO ₂ masses and complementary datasets. <i>Bulletin of Volcanology</i> , 2020, 82, 1.	1.1	15
45	Spectrally Resolved Fluxes from IASI Data: Retrieval Algorithm for Clear-Sky Measurements. <i>Journal of Climate</i> , 2020, 33, 6971-6988.	1.2	7
46	Complex refractive index of volcanic ash aerosol in the infrared, visible, and ultraviolet. <i>Applied Optics</i> , 2020, 59, 884.	0.9	17
47	Do alternative inventories converge on the spatiotemporal representation of spring ammonia emissions in France?. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 13481-13495.	1.9	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 SO ₂ volcanic eruptions since 2006. <i>Earth System Science Data</i> , 2020, 12, 3139-3159.	3.7	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. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8178-8202.	1.2	25
52	Tracking down global NH ₃ point sources with wind-adjusted superresolution. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5457-5473.	1.2	39
53	Initial constraints on triggering mechanisms of the eruption of Fuego volcano (Guatemala) from 3 June 2018 using IASI satellite data. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 376, 54-61.	0.8	25
54	The unintended consequence of SO ₂ and NO ₂ regulations over China: increase of ammonia levels and impact on PM _{2.5} concentrations. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6701-6716.	1.9	63

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55	Atmospheric ammonia (NH ₃) emanations from Lake Natron's saline mudflats. <i>Scientific Reports</i> , 2019, 9, 4441.	1.6	24
56	A Decadal Data Set of Global Atmospheric Dust Retrieved From IASI Satellite Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1618-1647.	1.2	32
57	Acetone Atmospheric Distribution Retrieved From Space. <i>Geophysical Research Letters</i> , 2019, 46, 2884-2893.	1.5	18
58	NH ₃ emissions from large point sources derived from CrIS and IASI satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 12261-12293.	1.9	89
59	Sulfur dioxide layer height retrieval from Sentinel-5 Precursor/TROPOMI using FP_ILM. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5503-5517.	1.2	58
60	Large-scale particulate air pollution and chemical fingerprint of volcanic sulfate aerosols from the 2014-2015 Holuhraun flood lava eruption of Bárðarbunga volcano (Iceland). <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 14253-14287.	1.9	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. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 3223-3247.	1.9	17
62	A General Framework for Global Retrievals of Trace Gases From IASI: Application to Methanol, Formic Acid, and PAN. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,963.	1.2	38
63	A physics-based approach to oversample multi-satellite, multispecies observations to a common grid. <i>Atmospheric Measurement Techniques</i> , 2018, 11, 6679-6701.	1.2	64
64	Industrial and agricultural ammonia point sources exposed. <i>Nature</i> , 2018, 564, 99-103.	13.7	312
65	Stratospheric aerosol radiative forcing simulated by the chemistry climate model EMAC using Aerosol CCI satellite data. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 12845-12857.	1.9	17
66	Validation of mobile in situ measurements of dairy husbandry emissions by fusion of airborne/surface remote sensing with seasonal context from the Chino Dairy Complex. <i>Environmental Pollution</i> , 2018, 242, 2111-2134.	3.7	9
67	IASI's sensitivity to near-surface carbon monoxide (CO): Theoretical analyses and retrievals on test cases. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2017, 189, 428-440.	1.1	23
68	Strong constraints on aerosol-cloud interactions from volcanic eruptions. <i>Nature</i> , 2017, 546, 485-491.	13.7	191
69	Remote sensing and in situ measurements of methane and ammonia emissions from a megacity dairy complex: Chino, CA. <i>Environmental Pollution</i> , 2017, 221, 37-51.	3.7	19
70	Ammonia Emissions May Be Substantially Underestimated in China. <i>Environmental Science & Technology</i> , 2017, 51, 12089-12096.	4.6	160
71	Observation of Air Pollution over China Using the IASI Thermal Infrared Space Sensor. , 2017, , 309-322.		2
72	Gas-aerosol partitioning of ammonia in biomass burning plumes: Implications for the interpretation of spaceborne observations of ammonia and the radiative forcing of ammonium nitrate. <i>Geophysical Research Letters</i> , 2017, 44, 8084-8093.	1.5	30

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73	IASI-derived NH ₃ enhancement ratios relative to CO for the tropical biomass burning regions. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12239-12252.	1.9	12
74	Long-range transport of stratospheric aerosols in the Southern Hemisphere following the 2015 Calbuco eruption. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 15019-15036.	1.9	32
75	Temporal and spatial variability of ammonia in urban and agricultural regions of northern Colorado, United States. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 6197-6213.	1.9	53
76	Version 2 of the IASI NH ₃ neural network retrieval algorithm: near-real-time and reanalysed datasets. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 4905-4914.	1.2	118
77	Retrieval of near-surface sulfur dioxide (SO ₂) concentrations at a global scale using IASI satellite observations. <i>Atmospheric Measurement Techniques</i> , 2016, 9, 721-740.	1.2	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). <i>Remote Sensing</i> , 2016, 8, 421.	1.8	131
80	A flexible and robust neural network IASI-NH ₃ retrieval algorithm. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 6581-6599.	1.2	96
81	Stratospheric aerosol-Observations, processes, and impact on climate. <i>Reviews of Geophysics</i> , 2016, 54, 278-335.	9.0	265
82	Doubling of annual ammonia emissions from the peat fires in Indonesia during the 2015 El Niño. <i>Geophysical Research Letters</i> , 2016, 43, 11,007.	1.5	41
83	Unaccounted variability in NH ₃ agricultural sources detected by IASI contributing to European spring haze episode. <i>Geophysical Research Letters</i> , 2016, 43, 5475-5482.	1.5	37
84	Current challenges in modelling far-range air pollution induced by the 2014-2015 Bárðarbunga fissure eruption (Iceland). <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10831-10845.	1.9	10
85	Using satellite-based measurements to explore spatiotemporal scales and variability of drivers of new particle formation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 12217-12235.	1.2	5
86	An evaluation of IASI-NH ₃ with ground-based Fourier transform infrared spectroscopy measurements. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 10351-10368.	1.9	56
87	Interannual variability of ammonia concentrations over the United States: sources and implications. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12305-12328.	1.9	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 Eyjafjallajökull eruption. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5705-5720.	1.9	13
89	Validation of ASH Optical Depth and Layer Height from IASI using Earlinet Lidar Data. <i>EPJ Web of Conferences</i> , 2016, 119, 07006.	0.1	0
90	Multi-decadal satellite measurements of global volcanic degassing. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 311, 99-134.	0.8	234

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91	Sulfur dioxide vertical column DOAS retrievals from the Ozone Monitoring Instrument: Global observations and comparison to ground-based and satellite data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2470-2491.	1.2	79
92	Worldwide spatiotemporal atmospheric ammonia (NH ₃) columns variability revealed by satellite. <i>Geophysical Research Letters</i> , 2015, 42, 8660-8668.	1.5	66
93	Temporal variations of flux and altitude of sulfur dioxide emissions during volcanic eruptions: implications for long-range dispersal of volcanic clouds. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8381-8400.	1.9	16
94	Acetylene (C ₂ H ₂) and hydrogen cyanide (HCN) from IASI satellite observations: global distributions, validation, and comparison with model. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 10509-10527.	1.9	7
95	Instantaneous longwave radiative impact of ozone: an application on IASI/MetOp observations. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 12971-12987.	1.9	14
96	Ammonia emissions in tropical biomass burning regions: Comparison between satellite-derived emissions and bottom-up fire inventories. <i>Atmospheric Environment</i> , 2015, 121, 42-54.	1.9	78
97	Cross-validation of IASI/MetOp derived tropospheric \hat{D} with TES and ground-based FTIR observations. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1447-1466.	1.2	13
98	Towards validation of ammonia (NH ₃) measurements from the IASI satellite. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 1575-1591.	1.2	90
99	Tracking pollutants from space: Eight years of IASI satellite observation. <i>Comptes Rendus - Geoscience</i> , 2015, 347, 134-144.	0.4	21
100	Separation of ash and sulfur dioxide during the 2011 GrÃnsvÃtn eruption. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 7477-7501.	1.2	69
101	Support to Aviation Control Service (SACS): an online service for near-real-time satellite monitoring of volcanic plumes. <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 1099-1123.	1.5	85
102	First simultaneous space measurements of atmospheric pollutants in the boundary layer from IASI: A case study in the North China Plain. <i>Geophysical Research Letters</i> , 2014, 41, 645-651.	1.5	57
103	IASI observations of sulfur dioxide (SO ₂) in the boundary layer of Norilsk. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 4253-4263.	1.2	42
104	First satellite detection of volcanic OClO after the eruption of Puyehue-CordÃn Caulle. <i>Geophysical Research Letters</i> , 2014, 41, 667-672.	1.5	35
105	Evaluating 4 years of atmospheric ammonia (NH ₃) over Europe using IASI satellite observations and LOTOS-EURO model results. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9549-9566.	1.2	61
106	Global distributions, time series and error characterization of atmospheric ammonia (NH ₃) from IASI satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 2905-2922.	1.9	195
107	The 2011 Nabro eruption, a SO ₂ plume height analysis using IASI measurements. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 3095-3111.	1.9	93
108	Improving volcanic sulfur dioxide cloud dispersal forecasts by progressive assimilation of satellite observations. <i>Geophysical Research Letters</i> , 2014, 41, 2637-2643.	1.5	20

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109	Operational Integration of Spaceborne Measurements of Lava Discharge Rates and Sulfur Dioxide Concentrations for Global Volcano Monitoring. <i>Advanced Technologies in Earth Sciences</i> , 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. <i>Geophysical Research Letters</i> , 2013, 40, 6095-6100.	1.5	33
112	Towards a climate-dependent paradigm of ammonia emission and deposition. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2013, 368, 20130166.	1.8	328
113	A unified approach to infrared aerosol remote sensing and type specification. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 2195-2221.	1.9	105
114	Exceptional emissions of NH ₃ and HCOOH in the 2010 Russian wildfires. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 4171-4181.	1.9	76
115	Inverting for volcanic SO ₂ flux at high temporal resolution using spaceborne plume imagery and chemistry-transport modelling: the 2010 EyjafjallajÃ¶kull eruption case study. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 8569-8584.	1.9	46
116	Volcanic SO ₂ fluxes derived from satellite data: a survey using OMI, GOME-2, IASI and MODIS. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5945-5968.	1.9	151
117	Stratospheric aerosols from the Sarychev volcano eruption in the 2009 Arctic summer. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 6533-6552.	1.9	37
118	Measurements of hydrogen cyanide (HCN) and acetylene (C ₂ H ₂) from the Infrared Atmospheric Sounding Interferometer (IASI). <i>Atmospheric Measurement Techniques</i> , 2013, 6, 917-925.	1.2	12
119	Retrieval of sulphur dioxide from the infrared atmospheric sounding interferometer (IASI). <i>Atmospheric Measurement Techniques</i> , 2012, 5, 581-594.	1.2	150
120	Hyperspectral Earth Observation from IASI: Five Years of Accomplishments. <i>Bulletin of the American Meteorological Society</i> , 2012, 93, 347-370.	1.7	357
121	Satellite evidence for a large source of formic acid from boreal and tropical forests. <i>Nature Geoscience</i> , 2012, 5, 26-30.	5.4	171
122	Mid-tropospheric ÎD observations from IASI/MetOp at high spatial and temporal resolution. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10817-10832.	1.9	62
123	Tropospheric methanol observations from space: retrieval evaluation and constraints on the seasonality of biogenic emissions. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 5897-5912.	1.9	39
124	Mixing of dust and NH ₃ ; observed globally over anthropogenic dust sources. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7351-7363.	1.9	37
125	Atmospheric ammonia and particulate inorganic nitrogen over the United States. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 10295-10312.	1.9	240
126	The 2010 explosive eruption of Java's Merapi volcanoâ€”A âˆ˜100-yearâ€™ event. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 241-242, 121-135.	0.8	336

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127	A case study of observations of volcanic ash from the Eyjafjallajökull eruption: 2. Airborne and satellite radiative measurements. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	47
128	A comparison of atmospheric dispersion model predictions with observations of SO ₂ and sulphate aerosol from volcanic eruptions. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	26
129	Aerosol properties of the Eyjafjallajökull ash derived from sun photometer and satellite observations over the Iberian Peninsula. <i>Atmospheric Environment</i> , 2012, 48, 22-32.	1.9	26
130	FORLI radiative transfer and retrieval code for IASI. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 1391-1408.	1.1	162
131	Thermal infrared nadir observations of 24 atmospheric gases. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	88
132	Infrared satellite observations of hydrogen sulfide in the volcanic plume of the August 2008 Kasatochi eruption. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	34
133	Intercontinental transport of anthropogenic sulfur dioxide and other pollutants: An infrared remote sensing case study. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	32
134	Evaluating the structure and magnitude of the ash plume during the initial phase of the 2010 Eyjafjallajökull eruption using lidar observations and NAME simulations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	93
135	TES ammonia retrieval strategy and global observations of the spatial and seasonal variability of ammonia. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10743-10763.	1.9	129
136	Determination of time- and height-resolved volcanic ash emissions and their use for quantitative ash dispersion modeling: the 2010 Eyjafjallajökull eruption. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4333-4351.	1.9	333
137	Global distributions of methanol and formic acid retrieved for the first time from the IASI/MetOp thermal infrared sounder. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 857-872.	1.9	71
138	First space-based derivation of the global atmospheric methanol emission fluxes. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 4873-4898.	1.9	122
139	Measuring volcanic degassing of SO ₂ in the lower troposphere with ASTER band ratios. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 194, 42-54.	0.8	47
140	The infrared spectral signature of volcanic ash determined from high-spectral resolution satellite measurements. <i>Remote Sensing of Environment</i> , 2010, 114, 414-425.	4.6	82
141	Detection of volcanic SO ₂ , ash, and H ₂ SO ₄ using the Infrared Atmospheric Sounding Interferometer (IASI). <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	117
142	Satellite monitoring of ammonia: A case study of the San Joaquin Valley. <i>Journal of Geophysical Research</i> , 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. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	59
144	A correlation method for volcanic ash detection using hyperspectral infrared measurements. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	82

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145	Observations of the eruption of the Sarychev volcano and simulations using the HadGEM2 climate model. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	128
146	Retrieving radius, concentration, optical depth, and mass of different types of aerosols from high-resolution infrared nadir spectra. <i>Applied Optics</i> , 2010, 49, 3713.	2.1	80
147	Satellite Monitoring of Volcanic Sulfur Dioxide Emissions for Early Warning of Volcanic Hazards. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2009, 2, 196-206.	2.3	67
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