Johanna Tamminen

List of Publications by Year in descending order

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109321 71685 6,773 117 35 76 citations g-index h-index papers 191 191 191 6540 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Permafrost carbon emissions in a changing Arctic. Nature Reviews Earth & Environment, 2022, 3, 55-67.	29.7	124
2	Synergy of Using Nadir and Limb Instruments for Tropospheric Ozone Monitoring (SUNLIT). Atmospheric Measurement Techniques, 2022, 15, 3193-3212.	3.1	2
3	Observational evidence of energetic particle precipitation NO _{<i>x</i>} (EPP-NO _{<i>x</i>}) interaction with chlorine curbing Antarctic ozone loss. Atmospheric Chemistry and Physics. 2021. 21. 2819-2836.	4.9	6
4	A method for random uncertainties validation and probing the natural variability with application to TROPOMI on board Sentinel-5P total ozone measurements. Atmospheric Measurement Techniques, 2021, 14, 2993-3002.	3.1	7
5	Measurement report: regional trends of stratospheric ozone evaluated using the MErged GRIdded Dataset of Ozone Profiles (MEGRIDOP). Atmospheric Chemistry and Physics, 2021, 21, 6707-6720.	4.9	14
6	Rethinking the correction for absorbing aerosols in the OMI- and TROPOMI-like surface UV algorithms. Atmospheric Measurement Techniques, 2021, 14, 4947-4957.	3.1	2
7	Monitoring Greenhouse Gases from Space. Remote Sensing, 2021, 13, 2700.	4.0	17
8	Day–Night Monitoring of Volcanic SO2 and Ash Clouds for Aviation Avoidance at Northern Polar Latitudes. Remote Sensing, 2021, 13, 4003.	4.0	3
9	Spaceâ€Based Observations for Understanding Changes in the Arcticâ€Boreal Zone. Reviews of Geophysics, 2020, 58, e2019RG000652.	23.0	39
10	Evidence for energetic particle precipitation and quasi-biennial oscillation modulations of the Antarctic NO ₂ springtime stratospheric column from OMI observations. Atmospheric Chemistry and Physics, 2020, 20, 6259-6271.	4.9	9
11	Benefit of ozone observations from Sentinel-5P and future Sentinel-4 missions on tropospheric composition. Atmospheric Measurement Techniques, 2020, 13, 131-152.	3.1	12
12	Vertical Distribution of Arctic Methane in 2009–2018 Using Ground-Based Remote Sensing. Remote Sensing, 2020, 12, 917.	4.0	6
13	Validation of the TROPOspheric Monitoring Instrument (TROPOMI) surface UV radiation product. Atmospheric Measurement Techniques, 2020, 13, 6999-7024.	3.1	17
14	Accelerated MCMC for Satellite-Based Measurements of Atmospheric CO2. Remote Sensing, 2019, 11, 2061.	4.0	5
15	Evaluation and Analysis of the Seasonal Cycle and Variability of the Trend from GOSAT Methane Retrievals. Remote Sensing, 2019, 11, 882.	4.0	17
16	Likelihood Informed Dimension Reduction for Remote Sensing of Atmospheric Constituent Profiles. MATRIX Book Series, 2019, , 65-78.	0.2	0
17	The Atmospheric Imaging Mission for Northern Regions: AlM-North. Canadian Journal of Remote Sensing, 2019, 45, 423-442.	2.4	14
18	Application of satellite-based sulfur dioxide observations to support the cleantech sector: Detecting emission reduction from copper smelters. Environmental Technology and Innovation, 2018, 12, 172-179.	6.1	11

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19	The Ozone Monitoring Instrument: overview of 14 years in space. Atmospheric Chemistry and Physics, 2018, 18, 5699-5745.	4.9	259
20	The TROPOMI surface UV algorithm. Atmospheric Measurement Techniques, 2018, 11, 997-1008.	3.1	23
21	The Quadrennial Ozone Symposium 2016. Advances in Atmospheric Sciences, 2017, 34, 283-288.	4.3	2
22	The Orbiting Carbon Observatory-2 early science investigations of regional carbon dioxide fluxes. Science, 2017, 358, .	12.6	157
23	Impact of spaceborne carbon monoxide observations from the S-5P platform on tropospheric composition analyses and forecasts. Atmospheric Chemistry and Physics, 2017, 17, 1081-1103.	4.9	16
24	Merged SAGEÂII, Ozone_cci and OMPS ozone profile dataset and evaluation of ozone trends in the stratosphere. Atmospheric Chemistry and Physics, 2017, 17, 12533-12552.	4.9	44
25	Improved GOMOS/Envisat ozone retrievals in the upper troposphere and the lower stratosphere. Atmospheric Measurement Techniques, 2017, 10, 231-246.	3.1	10
26	Aerosol-type retrieval and uncertainty quantification from OMI data. Atmospheric Measurement Techniques, 2017, 10, 4079-4098.	3.1	8
27	The Aerosol Index and Land Cover Class Based Atmospheric Correction Aerosol Optical Depth Time Series 1982–2014 for the SMAC Algorithm. Remote Sensing, 2017, 9, 1095.	4.0	9
28	Validation of GOME-2/Metop total column water vapour with ground-based and in situ measurements. Atmospheric Measurement Techniques, 2016, 9, 1533-1544.	3.1	13
29	Comparison of GOME-2/Metop-A ozone profiles with GOMOS, OSIRIS and MLS measurements. Atmospheric Measurement Techniques, 2016, 9, 249-261.	3.1	3
30	Comparison of OMI NO ₂ observations and their seasonal and weekly cycles with ground-based measurements in Helsinki. Atmospheric Measurement Techniques, 2016, 9, 5203-5212.	3.1	46
31	Overview of the O3M SAF GOME-2 operational atmospheric composition and UV radiation data products and data availability. Atmospheric Measurement Techniques, 2016, 9, 383-407.	3.1	44
32	AerGOM, an improved algorithm for stratospheric aerosol extinction retrieval from GOMOS observations – Part 1: Algorithm description. Atmospheric Measurement Techniques, 2016, 9, 4687-4700.	3.1	13
33	Absorption cross-sections of ozone in the ultraviolet and visible spectral regions: Status report 2015. Journal of Molecular Spectroscopy, 2016, 327, 105-121.	1.2	57
34	Direct spaceâ€based observations of anthropogenic CO ₂ emission areas from OCOâ€2. Geophysical Research Letters, 2016, 43, 11,400.	4.0	137
35	Retrieval of atmospheric CH ₄ profiles from Fourier transform infrared data using dimension reduction and MCMC. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,312-10,327.	3.3	16
36	Comparison of OMI UV observations with ground-based measurements at high northern latitudes. Atmospheric Chemistry and Physics, 2015, 15, 7391-7412.	4.9	40

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37	Past changes in the vertical distribution of ozone – Part 3: Analysis and interpretation of trends. Atmospheric Chemistry and Physics, 2015, 15, 9965-9982.	4.9	115
38	GOMOS bright limb ozone data set. Atmospheric Measurement Techniques, 2015, 8, 3107-3115.	3.1	4
39	Comparison of operational satellite SO ₂ products with ground-based observations in northern Finland during the Icelandic Holuhraun fissure eruption. Atmospheric Measurement Techniques, 2015, 8, 2279-2289.	3.1	24
40	Relative drifts and biases between six ozone limb satellite measurements from the last decade. Atmospheric Measurement Techniques, 2015, 8, 4369-4381.	3.1	13
41	Corrigendum to "On sampling uncertainty of satellite ozone profile measurements" published in Atmos. Meas. Tech., 7, 1891–1900, 2014. Atmospheric Measurement Techniques, 2015, 8, 341-341.	3.1	1
42	Quantification of uncertainty in aerosol optical thickness retrieval arising from aerosol microphysical model and other sources, applied to Ozone Monitoring Instrument (OMI) measurements. Atmospheric Measurement Techniques, 2014, 7, 1185-1199.	3.1	6
43	On sampling uncertainty of satellite ozone profile measurements. Atmospheric Measurement Techniques, 2014, 7, 1891-1900.	3.1	32
44	Validation of GOMOS ozone precision estimates in the stratosphere. Atmospheric Measurement Techniques, 2014, 7, 2147-2158.	3.1	12
45	Past changes in the vertical distribution of ozone – Part 1: Measurement techniques, uncertainties and availability. Atmospheric Measurement Techniques, 2014, 7, 1395-1427.	3.1	67
46	Real Time Volcanic Cloud Products and Predictions for Aviation Alerts. , 2014, , .		1
46	Real Time Volcanic Cloud Products and Predictions for Aviation Alerts., 2014,,. Characterization of OMI tropospheric NO ₂ over the Baltic Sea region. Atmospheric Chemistry and Physics, 2014, 14, 7795-7805.	4.9	24
	Characterization of OMI tropospheric NO& t;sub>2& t;/sub> over the Baltic Sea	4.9	
47	Characterization of OMI tropospheric NO ₂ over the Baltic Sea region. Atmospheric Chemistry and Physics, 2014, 14, 7795-7805. A novel tropopause-related climatology of ozone profiles. Atmospheric Chemistry and Physics, 2014,		24
47	Characterization of OMI tropospheric NO ₂ over the Baltic Sea region. Atmospheric Chemistry and Physics, 2014, 14, 7795-7805. A novel tropopause-related climatology of ozone profiles. Atmospheric Chemistry and Physics, 2014, 14, 283-299. Validation of MIPAS IMK/IAA V5R_O3_224 ozone profiles. Atmospheric Measurement Techniques, 2014, 7,	4.9	24
48	Characterization of OMI tropospheric NO ₂ over the Baltic Sea region. Atmospheric Chemistry and Physics, 2014, 14, 7795-7805. A novel tropopause-related climatology of ozone profiles. Atmospheric Chemistry and Physics, 2014, 14, 283-299. Validation of MIPAS IMK/IAA V5R_O3_224 ozone profiles. Atmospheric Measurement Techniques, 2014, 7, 3971-3987. Uncertainty quantification in aerosol optical thickness retrieval from Ozone Monitoring Instrument	4.9	24 24 24
47 48 49 50	Characterization of OMI tropospheric NO ₂ over the Baltic Sea region. Atmospheric Chemistry and Physics, 2014, 14, 7795-7805. A novel tropopause-related climatology of ozone profiles. Atmospheric Chemistry and Physics, 2014, 14, 283-299. Validation of MIPAS IMK/IAA V5R_O3_224 ozone profiles. Atmospheric Measurement Techniques, 2014, 7, 3971-3987. Uncertainty quantification in aerosol optical thickness retrieval from Ozone Monitoring Instrument (OMI) measurements., 2013,,	4.9 3.1	24 24 24
47 48 49 50	Characterization of OMI tropospheric NO ₂ over the Baltic Sea region. Atmospheric Chemistry and Physics, 2014, 14, 7795-7805. A novel tropopause-related climatology of ozone profiles. Atmospheric Chemistry and Physics, 2014, 14, 283-299. Validation of MIPAS IMK/IAA V5R_O3_224 ozone profiles. Atmospheric Measurement Techniques, 2014, 7, 3971-3987. Uncertainty quantification in aerosol optical thickness retrieval from Ozone Monitoring Instrument (OMI) measurements., 2013,, The link between springtime total ozone and summer UV radiation in Northern Hemisphere extratropics. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8649-8661. OCIO slant column densities derived from GOMOS averaged transmittance measurements.	4.9 3.1 3.3	24 24 24 0

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55	GOMOS one-step retrieval algorithm. , 2013, , .		1
56	Combined SAGE II–GOMOS ozone profile data set for 1984–2011 and trend analysis of the vertical distribution of ozone. Atmospheric Chemistry and Physics, 2013, 13, 10645-10658.	4.9	97
57	Direct comparisons of GOMOS and SAGE III NO ₃ vertical profiles. Atmospheric Measurement Techniques, 2012, 5, 1841-1846.	3.1	2
58	Polar-night O ₃ , NO ₂ and NO ₃ distributions during sudden stratospheric warmings in 2003–2008 as seen by GOMOS/Envisat. Atmospheric Chemistry and Physics, 2012, 12, 1051-1066.	4.9	24
59	Ozone zonal asymmetry and planetary wave characterization during Antarctic spring. Atmospheric Chemistry and Physics, 2012, 12, 2603-2614.	4.9	28
60	Efficient MCMC for Climate Model Parameter Estimation: Parallel Adaptive Chains and Early Rejection. Bayesian Analysis, 2012, 7, .	3.0	68
61	On closure parameter estimation in chaotic systems. Nonlinear Processes in Geophysics, 2012, 19, 127-143.	1.3	26
62	Biomass burning aerosols observed in Eastern Finland during the Russian wildfires in summer 2010 – Part 2: Remote sensing. Atmospheric Environment, 2012, 47, 279-287.	4.1	41
63	Characterization of a volcanic ash episode in southern Finland caused by the Grimsv \tilde{A} 9 th eruption in Iceland in May 2011. Atmospheric Chemistry and Physics, 2011, 11, 12227-12239.	4.9	39
64	Use of satellite erythemal UV products in analysing the global UV changes. Atmospheric Chemistry and Physics, 2011, 11, 9649-9658.	4.9	21
65	GOMOS O ₃ , NO ₂ , and NO ₃ observations in 2002–2008. Atmospheric Chemistry and Physics, 2010, 10, 7723-7738.	4.9	55
66	Retrieval of atmospheric parameters from GOMOS data. Atmospheric Chemistry and Physics, 2010, 10, 11881-11903.	4.9	71
67	Global ozone monitoring by occultation of stars: an overview of GOMOS measurements on ENVISAT. Atmospheric Chemistry and Physics, 2010, 10, 12091-12148.	4.9	102
68	Response of tropical stratospheric O ₃ , NO ₂ and NO ₃ to the equatorial Quasi-Biennial Oscillation and to temperature as seen from GOMOS/ENVISAT. Atmospheric Chemistry and Physics, 2010, 10, 8873-8879.	4.9	26
69	A global climatology of the mesospheric sodium layer from GOMOS data during the 2002–2008 period. Atmospheric Chemistry and Physics, 2010, 10, 9225-9236.	4.9	35
70	GOMOS data characterisation and error estimation. Atmospheric Chemistry and Physics, 2010, 10, 9505-9519.	4.9	43
71	Estimation of ECHAM5 climate model closure parameters with adaptive MCMC. Atmospheric Chemistry and Physics, 2010, 10, 9993-10002.	4.9	44
72	Optical extinction by upper tropospheric/stratospheric aerosols and clouds: GOMOS observations for the period 2002–2008. Atmospheric Chemistry and Physics, 2010, 10, 7997-8009.	4.9	31

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73	Comment on & Comp; quot; Using multiple observationally-based constraints to estimate climate sensitivity & Company; quot; by J. D. Annan and J. C. Hargreaves, Geophys. Res. Lett., 2006. Climate of the Past, 2010, 6, 411-414.	3.4	4
74	Retrievals from GOMOS stellar occultation measurements using characterization of modeling errors. Atmospheric Measurement Techniques, 2010, 3, 1019-1027.	3.1	21
75	Impact of different energies of precipitating particles on NOx generation in the middle and upper atmosphere during geomagnetic storms. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1176-1189.	1.6	166
76	Statistical comparison of night-time NO2 observations in 2003–2006 from GOMOS and MIPAS instruments. Advances in Space Research, 2009, 43, 1918-1925.	2.6	10
77	A new approach to correct for absorbing aerosols in OMI UV. Geophysical Research Letters, 2009, 36, .	4.0	71
78	Simultaneous measurements of OClO, NO ₂ and O ₃ in the Arctic polar vortex by the GOMOS instrument. Atmospheric Chemistry and Physics, 2009, 9, 7857-7866.	4.9	15
79	Spatio-temporal observations of the tertiary ozone maximum. Atmospheric Chemistry and Physics, 2009, 9, 4439-4445.	4.9	29
80	Influence of scintillation on quality of ozone monitoring by GOMOS. Atmospheric Chemistry and Physics, 2009, 9, 9197-9207.	4.9	33
81	Description and validation of a limb scatter retrieval method for Odin/OSIRIS. Journal of Geophysical Research, 2008, 113, .	3.3	24
82	Description and validation of the OMI very fast delivery products. Journal of Geophysical Research, $2008,113,$	3.3	12
83	About the increase of HNO ₃ in the stratopause region during the Halloween 2003 solar proton event. Geophysical Research Letters, 2008, 35, .	4.0	39
84	Aerosol model selection and uncertainty modelling by adaptive MCMC technique. Atmospheric Chemistry and Physics, 2008, 8, 7697-7707.	4.9	19
85	Global analysis of scintillation variance: Indication of gravity wave breaking in the polar winter upper stratosphere. Geophysical Research Letters, 2007, 34, .	4.0	23
86	Arctic and Antarctic polar winter NOxand energetic particle precipitation in 2002–2006. Geophysical Research Letters, 2007, 34, .	4.0	97
87	Validation of daily erythemal doses from Ozone Monitoring Instrument with groundâ€based UV measurement data. Journal of Geophysical Research, 2007, 112, .	3.3	129
88	Destruction of the tertiary ozone maximum during a solar proton event. Geophysical Research Letters, 2006, 33, .	4.0	75
89	A global OCIO stratospheric layer discovered in GOMOS stellar occultation measurements. Geophysical Research Letters, 2006, 33, .	4.0	17
90	Production of odd hydrogen in the mesosphere during the January 2005 solar proton event. Geophysical Research Letters, 2006, 33, .	4.0	93

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91	Nighttime ozone profiles in the stratosphere and mesosphere by the Global Ozone Monitoring by Occultation of Stars on Envisat. Journal of Geophysical Research, 2006, 111, .	3.3	55
92	Recent results from the Ozone Monitoring Instrument (OMI) on EOS Aura. , 2006, , .		3
93	OMI very fast delivery and the Sodankyla/spl uml/ Satellite Data Centre. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1283-1287.	6.3	10
94	Science objectives of the ozone monitoring instrument. IEEE Transactions on Geoscience and Remote Sensing, 2006, 44, 1199-1208.	6.3	439
95	GOMOS Ozone Profiles at High Latitudes: Comparison with Marambio and SodankylÃ\$onde Measurements. , 2006, , 47-54.		4
96	Modeling Errors of GOMOS Measurements: A Sensitivity Study. , 2006, , 67-78.		4
97	A 2003 stratospheric aerosol extinction and PSC climatology from GOMOS measurements on Envisat. Atmospheric Chemistry and Physics, 2005, 5, 2413-2417.	4.9	20
98	GOMOS serendipitous data products: The mesospheric sodium layer and various limb emissions. Advances in Space Research, 2005, 36, 967-972.	2.6	1
99	A comparison of night-time GOMOS and MIPAS ozone profiles in the stratosphere and mesosphere. Advances in Space Research, 2005, 36, 958-966.	2.6	22
100	A first comparison of GOMOS aerosol extinction retrievals with other measurements. Advances in Space Research, 2005, 36, 894-898.	2.6	6
101	Autoregressive smoothing of GOMOS transmittances. Advances in Space Research, 2005, 36, 899-905.	2.6	4
102	Componentwise adaptation for high dimensional MCMC. Computational Statistics, 2005, 20, 265-273.	1.5	156
103	First simultaneous global measurements of nighttime stratospheric NO2and NO3observed by Global Ozone Monitoring by Occultation of Stars (GOMOS)/Envisat in 2003. Journal of Geophysical Research, 2005, 110, .	3.3	50
104	Ozone profile smoothness as a priori information in the inversion of limb measurements. Annales Geophysicae, 2004, 22, 3411-3420.	1.6	44
105	Markov chain Monte Carlo methods for high dimensional inversion in remote sensing. Journal of the Royal Statistical Society Series B: Statistical Methodology, 2004, 66, 591-607.	2.2	74
106	GOMOS on Envisat: an overview. Advances in Space Research, 2004, 33, 1020-1028.	2.6	142
107	First results on GOMOS/ENVISAT. Advances in Space Research, 2004, 33, 1029-1035.	2.6	66
108	Global measurement of the mesospheric sodium layer by the star occultation instrument GOMOS. Geophysical Research Letters, 2004, 31, .	4.0	26

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109	Validation of nonlinear inverse algorithms with Markov chain Monte Carlo method. Journal of Geophysical Research, 2004, 109, .	3.3	29
110	Envisat/GOMOS Stellar Occultation: Inversion Schemes and First Analyses of Real Data. , 2004, , 275-287.		0
111	Bayesian solution for nonlinear and non-Gaussian inverse problems by Markov chain Monte Carlo method. Journal of Geophysical Research, 2001, 106, 14377-14390.	3.3	51
112	An Adaptive Metropolis Algorithm. Bernoulli, 2001, 7, 223.	1.3	1,884
113	Adaptive proposal distribution for random walk Metropolis algorithm. Computational Statistics, 1999, 14, 375-395.	1.5	304
114	Data processing of the GOMOS instrument by using an adaptive MCMC method., 1998,,.		1
115	Data processing and sensitivity studies of the GOMOS instrument. , 1996, , .		0
116	GOMOS validation., 0,,.		0
117	Analyzing Local Carbon Dioxide and Nitrogen Oxide Emissions From Space Using the Divergence Method: An Application to the Synthetic SMARTCARB Dataset. Frontiers in Remote Sensing, 0, 3, .	3.5	3