

Thomas Peter

List of Publications by Year in Descending Order

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

320
papers

15,914
citations

70
h-index

112
g-index

335
ext. papers

17,890
ext. citations

7.1
avg, IF

6.39
L-index

#	Paper	IF	Citations
320	An interactive stratospheric aerosol model intercomparison of solar geoengineering by stratospheric injection of SO ₂ or accumulation-mode sulfuric acid aerosols. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 2955-2973	6.8	1
319	The impact of (bio-)organic substances on the ice nucleation activity of the K-feldspar microcline in aqueous solutions. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 3655-3673	6.8	1
318	Response to Comment on "A global environmental crisis 42,000 years ago". <i>Science</i> , 2021 , 374, eabi975633,3	33.3	2
317	Response to Comment on "A global environmental crisis 42,000 years ago". <i>Science</i> , 2021 , 374, eabh36553,3	33.3	
316	Modeling the Sulfate Aerosol Evolution After Recent Moderate Volcanic Activity, 2008-2012. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035472	4.4	2
315	Iodine chemistry in the chemistry-climate model SOCOL-AERv2-I. <i>Geoscientific Model Development</i> , 2021 , 14, 6623-6645	6.3	1
314	Photolytic radical persistence due to anoxia in viscous aerosol particles. <i>Nature Communications</i> , 2021 , 12, 1769	17.4	15
313	Linkage of water vapor distribution in the lower stratosphere to organized Asian summer monsoon convection. <i>Climate Dynamics</i> , 2021 , 57, 1709-1731	4.2	3
312	Reductions in the deposition of sulfur and selenium to agricultural soils pose risk of future nutrient deficiencies. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	4
311	Polar Stratospheric Clouds: Satellite Observations, Processes, and Role in Ozone Depletion. <i>Reviews of Geophysics</i> , 2021 , 59, e2020RG000702	23.1	15
310	Microspectroscopy reveals dust-derived apatite grains in acidic, highly-weathered Hawaiian soils. <i>Geoderma</i> , 2021 , 381, 114681	6.7	11
309	A global environmental crisis 42,000 years ago. <i>Science</i> , 2021 , 371, 811-818	33.3	28
308	Understanding balloon-borne frost point hygrometer measurements after contamination by mixed-phase clouds. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 239-268	4	2
307	The response of mesospheric H ₂ O and CO to solar irradiance variability in models and observations. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 201-216	6.8	2
306	Compact and lightweight mid-infrared laser spectrometer for balloon-borne water vapor measurements in the UTLS. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 1365-1378	4	3
305	Evaluation of polar stratospheric clouds in the global chemistry-climate model SOCOLv3.1 by comparison with CALIPSO spaceborne lidar measurements. <i>Geoscientific Model Development</i> , 2021 , 14, 935-959	6.3	2
304	Atmosphere-ocean-aerosol-chemistry-climate model SOCOLv4.0: description and evaluation. <i>Geoscientific Model Development</i> , 2021 , 14, 5525-5560	6.3	3

303	Photochemical degradation of iron(III) citrate/citric acid aerosol quantified with the combination of three complementary experimental techniques and a kinetic process model. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 315-338	6.8	9
302	Constraining Atmospheric Selenium Emissions Using Observations, Global Modeling, and Bayesian Inference. <i>Environmental Science & Technology</i> , 2020 , 54, 7146-7155	10.3	11
301	Mapping the drivers of uncertainty in atmospheric selenium deposition with global sensitivity analysis. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 1363-1390	6.8	7
300	Strong day-to-day variability of the Asian Tropopause Aerosol Layer (ATAL) in August 2016 at the Himalayan foothills. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 14273-14302	6.8	12
299	Photophoretic spectroscopy in atmospheric chemistry [high-sensitivity measurements of light absorption by a single particle. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 3191-3203	4	2
298	Improved tropospheric and stratospheric sulfur cycle in the aerosol-chemistry-climate model SOCOL-AERv2. <i>Geoscientific Model Development</i> , 2019 , 12, 3863-3887	6.3	13
297	Reactive nitrogen (NO _x) and ozone responses to energetic electron precipitation during Southern Hemisphere winter. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 9485-9494	6.8	3
296	Water Vapor in the Asian Summer Monsoon Anticyclone: Comparison of Balloon-Borne Measurements and ECMWF Data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 7053	4.4	7
295	Exploring accumulation-mode H ₂ SO ₄ versus SO ₂ ; stratospheric sulfate geoengineering in a sectional aerosol-chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 4877-4897	6.8	14
294	Ice nucleation activity of silicates and aluminosilicates in pure water and aqueous solutions [Part 2: Quartz and amorphous silica. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 6035-6058	6.8	22
293	Ice nucleation activity of silicates and aluminosilicates in pure water and aqueous solutions [Part 3: Aluminosilicates. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 6059-6084	6.8	24
292	Retrieval of Aerosol Size Distributions From In Situ Particle Counter Measurements: Instrument Counting Efficiency and Comparisons With Satellite Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 5058-5087	4.4	7
291	Carbon Dioxide Diffusivity in Single, Levitated Organic Aerosol Particles. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 4484-4489	6.4	5
290	Stratospheric ozone trends for 1985-2018: sensitivity to recent large variability. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12731-12748	6.8	30
289	Modelling atmospheric selenium transport and deposition on a global scale 2019 , 17-18		
288	Abundance and sources of atmospheric halocarbons in the Eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 4069-4092	6.8	5
287	Isotopic source signatures: Impact of regional variability on the $\delta^{13}\text{C}_{\text{CH}_4}$ trend and spatial distribution. <i>Atmospheric Environment</i> , 2018 , 174, 99-111	5.3	13
286	Evidence for a continuous decline in lower stratospheric ozone offsetting ozone layer recovery. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1379-1394	6.8	143

285	Implications of potential future grand solar minimum for ozone layer and climate. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 3469-3483	6.8	9
284	Ice nucleation activity of silicates and aluminosilicates in pure water and aqueous solutions [Part 1: The K-feldspar microcline. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 7057-7079	6.8	46
283	Revised historical solar irradiance forcing. <i>Astronomy and Astrophysics</i> , 2018 , 615, A85	5.1	29
282	High resolution analysis of the FTIR spectra of trifluoroamine NF ₃ . <i>Journal of Molecular Spectroscopy</i> , 2018 , 348, 87-102	1.3	13
281	A global space-based stratospheric aerosol climatology: 1979–2016. <i>Earth System Science Data</i> , 2018 , 10, 469-492	10.5	98
280	Stratospheric aerosol evolution after Pinatubo simulated with a coupled size-resolved aerosol–chemistry–climate model, SOCOL-AERv1.0. <i>Geoscientific Model Development</i> , 2018 , 11, 2633-2647	6.3	8
279	Stratospheric ozone measurements at Arosa (Switzerland): history and scientific relevance. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 6567-6584	6.8	7
278	Contributions of Natural and Anthropogenic Forcing Agents to the Early 20th Century Warming. <i>Frontiers in Earth Science</i> , 2018 , 6,	3.5	7
277	Tropospheric ozone in CCM1 models and Gaussian process emulation to understand biases in the SOCOLv3 chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 16155-16172	6.8	17
276	Ice nucleation activity of silicates and aluminosilicates in pure water and aqueous solutions. Part 3 □ Aluminosilicates 2018 ,		3
275	Time evolution of steep diffusion fronts in highly viscous aerosol particles measured with Mie resonance spectroscopy. <i>Journal of Chemical Physics</i> , 2018 , 149, 244506	3.9	7
274	Balloon-borne measurements of temperature, water vapor, ozone and aerosol backscatter on the southern slopes of the Himalayas during StratoClim 2016–2017. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 15937-15957	6.8	45
273	Shortwave radiative impact of liquid–liquid phase separation in brown carbon aerosols. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13511-13530	6.8	9
272	Ice nucleation activity of silicates and aluminosilicates in pure water and aqueous solutions. Part 2 □ Quartz and amorphous silica 2018 ,		3
271	Atmospheric impacts of the strongest known solar particle storm of 775 AD. <i>Scientific Reports</i> , 2017 , 7, 45257	4.9	35
270	Modeling of the middle atmosphere response to 27-day solar irradiance variability. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017 , 152-153, 50-61	2	7
269	Chemistry-climate model simulations of the Mt. Pinatubo eruption using CCM1 and CMIP6 stratospheric aerosol data 2017 ,		1
268	Abundance and Sources of Atmospheric Halocarbons in the Eastern Mediterranean 2017 ,		2

267	On the aliasing of the solar cycle in the lower stratospheric tropical temperature. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 9076-9093	4.4	11
266	Kinetic Limitation to Inorganic Ion Diffusivity and to Coalescence of Inorganic Inclusions in Viscous Liquid-Liquid Phase-Separated Particles. <i>Journal of Physical Chemistry A</i> , 2017 , 121, 9284-9296	2.8	14
265	Impacts of Mt Pinatubo volcanic aerosol on the tropical stratosphere in chemistry-climate model simulations using CCMI and CMIP6 stratospheric aerosol data. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 13139-13150	6.8	11
264	Refreeze experiments with water droplets containing different types of ice nuclei interpreted by classical nucleation theory. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3525-3552	6.8	24
263	Technical note: Monte Carlo genetic algorithm (MCGA) for model analysis of multiphase chemical kinetics to determine transport and reaction rate coefficients using multiple experimental data sets. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 8021-8029	6.8	19
262	Diffusivity measurements of volatile organics in levitated viscous aerosol particles. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 8453-8471	6.8	27
261	Tropospheric Ozone at Northern Mid-Latitudes: Modeled and Measured Long-Term Changes. <i>Atmosphere</i> , 2017 , 8, 163	2.7	12
260	Ozone uptake on glassy, semi-solid and liquid organic matter and the role of reactive oxygen intermediates in atmospheric aerosol chemistry. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 12662-7436	3.6	78
259	An upper-branch Brewer-Dobson circulation index for attribution of stratospheric variability and improved ozone and temperature trend analysis. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 15485-15500	6.8	3
258	Ice nucleation efficiency of natural dust samples in the immersion mode. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 11177-11206	6.8	45
257	The role of methane in projections of 21st century stratospheric water vapour. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 13067-13080	6.8	19
256	Climatological and radiative properties of midlatitude cirrus clouds derived by automatic evaluation of lidar measurements. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 7605-7621	6.8	30
255	Persistent Water-Nitric Acid Condensate with Saturation Water Vapor Pressure Greater than That of Hexagonal Ice. <i>Journal of Physical Chemistry A</i> , 2016 , 120, 1431-40	2.8	8
254	Tropical Temperature and Precipitation Responses to Large Volcanic Eruptions: Observations and AMIP5 Simulations. <i>Journal of Climate</i> , 2016 , 29, 1325-1338	4.4	2
253	A mid-latitude stratosphere dynamical index for attribution of stratospheric variability and improved ozone and temperature trend analysis 2016 ,		2
252	Refreeze experiments of water droplets containing different types of ice nuclei interpreted by classical nucleation theory 2016 ,		1
251	Evaluation of simulated photolysis rates and their response to solar irradiance variability. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 6066-6084	4.4	18
250	The influence of Middle Range Energy Electrons on atmospheric chemistry and regional climate. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016 , 149, 180-190	2	44

249	Decision strategies for policy decisions under uncertainties: The case of mitigation measures addressing methane emissions from ruminants. <i>Environmental Science and Policy</i> , 2015 , 52, 110-119	6.2	8
248	Did the 2011 Nabro eruption affect the optical properties of ice clouds?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 9500-9513	4.4	4
247	First observations, trends, and emissions of HCFC-31 (CH ₂ ClF) in the global atmosphere. <i>Geophysical Research Letters</i> , 2015 , 42, 7817-7824	4.9	8
246	The changing ozone depletion potential of N ₂ O in a future climate. <i>Geophysical Research Letters</i> , 2015 , 42, 10,047-10,055	4.9	21
245	Redistribution of black carbon in aerosol particles undergoing liquid-liquid phase separation. <i>Geophysical Research Letters</i> , 2015 , 42, 2532-2539	4.9	18
244	Global atmospheric sulfur budget under volcanically quiescent conditions: Aerosol-chemistry-climate model predictions and validation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 256-276	4.4	60
243	Drivers of the tropospheric ozone budget throughout the 21st century under the medium-high climate scenario RCP 6.0. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 5887-5902	6.8	61
242	Sensitivities of Lagrangian modelling of mid-latitude cirrus clouds to trajectory data quality. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 7429-7447	6.8	12
241	Viscous organic aerosol particles in the upper troposphere: diffusivity-controlled water uptake and ice nucleation?. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 13599-13613	6.8	81
240	A perturbed parameter model ensemble to investigate Mt. Pinatubo's 1991 initial sulfur mass emission. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 11501-11512	6.8	12
239	Improved AIOMFAC model parameterisation of the temperature dependence of activity coefficients for aqueous organic mixtures. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 447-493	6.8	31
238	Electrodynamic balance measurements of thermodynamic, kinetic, and optical aerosol properties inaccessible to bulk methods. <i>Atmospheric Measurement Techniques</i> , 2015 , 8, 2397-2408	4	34
237	Shikimic acid ozonolysis kinetics of the transition from liquid aqueous solution to highly viscous glass. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 31101-9	3.6	29
236	Northern hemispheric winter warming pattern after tropical volcanic eruptions: Sensitivity to the ozone climatology. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 1340-1355	4.4	18
235	Experimental determination of the temperature dependence of water activities for a selection of aqueous organic solutions. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 9993-10012	6.8	16
234	Analysis of elevated springtime levels of Peroxyacetyl nitrate (PAN) at the high Alpine research sites Jungfraujoch and Zugspitze. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 12553-12571	6.8	22
233	Arctic stratospheric dehydration [Part 2: Microphysical modeling. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 3231-3246	6.8	13
232	Balloon-borne match measurements of midlatitude cirrus clouds. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 7341-7365	6.8	24

231	Nitric acid trihydrate nucleation and denitrification in the Arctic stratosphere. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1055-1073	6.8	48
230	Impact of solar versus volcanic activity variations on tropospheric temperatures and precipitation during the Dalton Minimum. <i>Climate of the Past</i> , 2014 , 10, 921-938	3.9	37
229	Trajectory matching of ozonesondes and MOZAIC measurements in the UTLS [Part 2: Application to the global ozonesonde network. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 241-266	4	12
228	Volcanic forcing for climate modeling: a new microphysics-based data set covering years 1600-present. <i>Climate of the Past</i> , 2014 , 10, 359-375	3.9	53
227	Impact of geomagnetic excursions on atmospheric chemistry and dynamics. <i>Climate of the Past</i> , 2014 , 10, 1183-1194	3.9	3
226	The coupled atmosphere-chemistry-ocean model SOCOL-MPIOM. <i>Geoscientific Model Development</i> , 2014 , 7, 2157-2179	6.3	28
225	Evaluation of the ECHAM family radiation codes performance in the representation of the solar signal. <i>Geoscientific Model Development</i> , 2014 , 7, 2859-2866	6.3	17
224	The AquaVIT-1 intercomparison of atmospheric water vapor measurement techniques. <i>Atmospheric Measurement Techniques</i> , 2014 , 7, 3177-3213	4	68
223	Ion depletion near a solution surface: is image-charge repulsion sufficient?. <i>Physical Review Letters</i> , 2013 , 111, 266102	7.4	2
222	Impact of a potential 21st century "grand solar minimum" on surface temperatures and stratospheric ozone. <i>Geophysical Research Letters</i> , 2013 , 40, 4420-4425	4.9	33
221	Morphologies of mixed organic/inorganic/aqueous aerosol droplets. <i>Faraday Discussions</i> , 2013 , 165, 289-316	3.6	69
220	Heterogeneous formation of polar stratospheric clouds-nucleation of nitric acid trihydrate (NAT) in the arctic stratosphere 2013 ,		1
219	Trajectory matching of ozonesondes and MOZAIC measurements in the UTLS [Part 1: Method description and application at Payerne, Switzerland. <i>Atmospheric Measurement Techniques</i> , 2013 , 6, 3393-3406	4	11
218	The SOCOL version 3.0 chemistry-climate model: description, evaluation, and implications from an advanced transport algorithm. <i>Geoscientific Model Development</i> , 2013 , 6, 1407-1427	6.3	95
217	Response to "Comment on 'Experimental evidence for excess entropy discontinuities in glass-forming solutions'" [J. Chem. Phys. 139, 047101 (2013)]. <i>Journal of Chemical Physics</i> , 2013 , 139, 047102	3.9	
216	Modeling the stratospheric warming following the Mt. Pinatubo eruption: uncertainties in aerosol extinctions. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 11221-11234	6.8	59
215	Vapor pressures of substituted polycarboxylic acids are much lower than previously reported. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 6647-6662	6.8	29
214	Heterogeneous formation of polar stratospheric clouds [Part 1: Nucleation of nitric acid trihydrate (NAT). <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9577-9595	6.8	58

213	Heterogeneous formation of polar stratospheric clouds [Part 2: Nucleation of ice on synoptic scales. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 10769-10785	6.8	45
212	On the relationship between total ozone and atmospheric dynamics and chemistry at mid-latitudes [Part 1: Statistical models and spatial fingerprints of atmospheric dynamics and chemistry. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 147-164	6.8	38
211	On the relationship between total ozone and atmospheric dynamics and chemistry at mid-latitudes [Part 2: The effects of the El Niño/Southern Oscillation, volcanic eruptions and contributions of atmospheric dynamics and chemistry to long-term total ozone changes. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 165-179	6.8	43
210	Forcing of stratospheric chemistry and dynamics during the Dalton Minimum. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 10951-10967	6.8	17
209	Arctic stratospheric dehydration [Part 1: Unprecedented observation of vertical redistribution of water. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 11503-11517	6.8	32
208	Cold trap dehydration in the Tropical Tropopause Layer characterised by SOWER chilled-mirror hygrometer network data in the Tropical Pacific. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 4393-4411	6.8	15
207	Reconciliation of essential process parameters for an enhanced predictability of Arctic stratospheric ozone loss and its climate interactions (RECONCILE): activities and results. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9233-9268	6.8	69
206	Climate and chemistry effects of a regional scale nuclear conflict. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 9713-9729	6.8	19
205	Microphysical and radiative changes in cirrus clouds by geoengineering the stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 4533-4548	4.4	23
204	The role of the solar irradiance variability in the evolution of the middle atmosphere during 2004-2009. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 3781-3793	4.4	16
203	Estimating the frequency of extremely energetic solar events, based on solar, stellar, lunar, and terrestrial records. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		124
202	Measurements of thermodynamic and optical properties of selected aqueous organic and organic-inorganic mixtures of atmospheric relevance. <i>Journal of Physical Chemistry A</i> , 2012 , 116, 9954-68 ^{2.8}		50
201	European emissions of halogenated greenhouse gases inferred from atmospheric measurements. <i>Environmental Science & Technology</i> , 2012 , 46, 217-25	10.3	40
200	Liquid-liquid phase separation in aerosol particles: Dependence on O:C, organic functionalities, and compositional complexity. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	74
199	Influence of the Precipitating Energetic Particles on Atmospheric Chemistry and Climate. <i>Surveys in Geophysics</i> , 2012 , 33, 483-501	7.6	110
198	Ice nucleation efficiency of clay minerals in the immersion mode. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 5859-5878	6.8	76
197	Liquid-liquid phase separation and morphology of internally mixed dicarboxylic acids/ammonium sulfate/water particles. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 2691-2712	6.8	131
196	Experimental evidence for excess entropy discontinuities in glass-forming solutions. <i>Journal of Chemical Physics</i> , 2012 , 136, 074515	3.9	19

195	Spatial variation of aerosol optical properties around the high-alpine site Jungfraujoch (3580 m a.s.l.). <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 7231-7249	6.8	48
194	Corrigendum to "A thermodynamic model of mixed organic/inorganic aerosols to predict activity coefficients" published in <i>Atmos. Chem. Phys.</i> , 8, 4559-4593, 2008. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 10075-10075	6.8	2
193	Signature of the 27-day solar rotation cycle in mesospheric OH and H ₂ O observed by the Aura Microwave Limb Sounder. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 3181-3188	6.8	25
192	Influence of a Carrington-like event on the atmospheric chemistry, temperature and dynamics. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 8679-8686	6.8	16
191	Particle backscatter and relative humidity measured across cirrus clouds and comparison with microphysical cirrus modelling. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 9135-9148	6.8	47
190	Ultra-slow water diffusion in aqueous sucrose glasses. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 3514-26	3.6	206
189	In situ observations of new particle formation in the tropical upper troposphere: the role of clouds and the nucleation mechanism. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9983-10010	6.8	52
188	Ground-based and airborne in-situ measurements of the Eyjafjallajökull volcanic aerosol plume in Switzerland in spring 2010. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 10011-10030	6.8	75
187	Ice nucleation properties of volcanic ash from Eyjafjallajökull. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9911-9926	6.8	66
186	Representation of tropical deep convection in atmospheric models [Part 2: Tracer transport]. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 8103-8131	6.8	38
185	New and extended parameterization of the thermodynamic model AIOMFAC: calculation of activity coefficients for organic-inorganic mixtures containing carboxyl, hydroxyl, carbonyl, ether, ester, alkenyl, alkyl, and aromatic functional groups. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9155-9206	6.8	240
184	Influence of Galactic Cosmic Rays on atmospheric composition and dynamics. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 4547-4556	6.8	50
183	Extreme events in total ozone over the Northern mid-latitudes: an analysis based on long-term data sets from five European ground-based stations. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2011 , 63, 860-874	3.3	21
182	The atmospheric effects of October 2003 solar proton event simulated with the chemistry-climate model SOCOL using complete and parameterized ion chemistry. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011 , 73, 356-365	2	22
181	Sensitivity of the Earth's middle atmosphere to short-term solar variability and its dependence on the choice of solar irradiance data set. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011 , 73, 348-355	2	22
180	Modeling the ascent of sounding balloons: derivation of the vertical air motion. <i>Atmospheric Measurement Techniques</i> , 2011 , 4, 2235-2253	4	23
179	Anthropogenic forcing of the Northern Annular Mode in CCMVal-2 models. <i>Journal of Geophysical Research</i> , 2010 , 115,		31
178	Stratosphere-troposphere coupling and annular mode variability in chemistry-climate models. <i>Journal of Geophysical Research</i> , 2010 , 115,		96

177	Efficient formation of stratospheric aerosol for climate engineering by emission of condensable vapor from aircraft. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	93
176	Efflorescence of ammonium sulfate and coated ammonium sulfate particles: evidence for surface nucleation. <i>Journal of Physical Chemistry A</i> , 2010 , 114, 9486-95	2.8	56
175	Relationship between high daily erythemal UV doses, total ozone, surface albedo and cloudiness: An analysis of 30years of data from Switzerland and Austria. <i>Atmospheric Research</i> , 2010 , 98, 9-20	5.4	24
174	Extreme events in total ozone over Arosa [Part 2: Fingerprints of atmospheric dynamics and chemistry and effects on mean values and long-term changes. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10033-10045	6.8	27
173	Computation of liquid-liquid equilibria and phase stabilities: implications for RH-dependent gas/particle partitioning of organic-inorganic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7795-7820 ¹⁵²	6.8	152
172	Extreme events in total ozone over Arosa [Part 1: Application of extreme value theory. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 10021-10031	6.8	28
171	Evidence for the effectiveness of the Montreal Protocol to protect the ozone layer. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 12161-12171	6.8	73
170	The potential influence of Asian and African mineral dust on ice, mixed-phase and liquid water clouds. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 8649-8667	6.8	71
169	Grazing angle 2MeV RBS on the surface of a liquid with atomic layer depth resolution. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2010 , 268, 1711-1713	1.2	1
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