

Andrea Pozzer

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.

188
papers

9,435
citations

45
h-index

95
g-index

310
ext. papers

11,790
ext. citations

7.5
avg, IF

6.59
L-index

#	Paper	IF	Citations
188	Impact of non-ideality on reconstructing spatial and temporal variations in aerosol acidity with multiphase buffer theory. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 47-63	6.8	0
187	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	6.3	0
186	Kinetics of OH + SO ₂ + M: temperature-dependent rate coefficients in the fall-off regime and the influence of water vapour. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 4969-4984	6.8	1
185	Tropospheric ozone production and chemical regime analysis during the COVID-19 lockdown over Europe. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 6151-6165	6.8	1
184	A process-oriented evaluation of CAMS reanalysis ozone during tropopause folds over Europe for the period 2003-2018. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 6275-6289	6.8	0
183	Synergistic HNO-HSO-NH upper tropospheric particle formation.. <i>Nature</i> , 2022 , 605, 483-489	50.4	5
182	Spatial Distribution of PM-Related Premature Mortality in China.. <i>GeoHealth</i> , 2021 , 5, e2021GH000532	5	4
181	Global health burden of ambient PM and the contribution of anthropogenic black carbon and organic aerosols. <i>Environment International</i> , 2021 , 159, 107020	12.9	7
180	About right: references in open-access EGU (European Geosciences Union) journals. <i>Geoscience Communication</i> , 2021 , 4, 453-460	0.7	
179	How alkaline compounds control atmospheric aerosol particle acidity. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 14983-15001	6.8	3
178	Global and national assessment of the incidence of asthma in children and adolescents from major sources of ambient NO ₂ . <i>Environmental Research Letters</i> , 2021 , 16, 035020	6.2	5
177	Effects of spatial resolution on WRF v3.8.1 simulated meteorology over the central Himalaya. <i>Geoscientific Model Development</i> , 2021 , 14, 1427-1443	6.3	5
176	Influence of the El Niño Southern Oscillation on entry stratospheric water vapor in coupled chemistry-ocean CCM1 and CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 3725-3740	6.8	1
175	A Global Climatology of Tropopause Folds in CAMS and MERRA-2 Reanalyses. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034115	4.4	4
174	Ubiquitous atmospheric production of organic acids mediated by cloud droplets. <i>Nature</i> , 2021 , 593, 233-237	33.7	21
173	Central role of nitric oxide in ozone production in the upper tropical troposphere over the Atlantic Ocean and western Africa. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 8195-8211	6.8	3
172	On the link between the Etesian winds, tropopause folds and tropospheric ozone over the Eastern Mediterranean during summer. <i>Atmospheric Research</i> , 2021 , 248, 105161	5.4	5

171	Influence of aromatics on tropospheric gas-phase composition. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 2615-2636	6.8	11
170	Cold cloud microphysical process rates in a global chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1485-1505	6.8	2
169	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	6.8	2
168	Evaluation of the coupled high-resolution atmospheric chemistry model system MECO(n) using in situ and MAX-DOAS NO ₂ measurements. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 5241-5269	4	1
167	Impact of pyruvic acid photolysis on acetaldehyde and peroxy radical formation in the boreal forest: theoretical calculations and model results. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 14333-14349	6.8	0
166	Changing risk factors that contribute to premature mortality from ambient air pollution between 2000 and 2015. <i>Environmental Research Letters</i> , 2020 , 15, 074010	6.2	13
165	A machine learning examination of hydroxyl radical differences among model simulations for CCM1-1. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 1341-1361	6.8	11
164	Natural sea-salt emissions moderate the climate forcing of anthropogenic nitrate. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 771-786	6.8	6
163	Net ozone production and its relationship to nitrogen oxides and volatile organic compounds in the marine boundary layer around the Arabian Peninsula. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 6769-6787	6.8	17
162	Inappropriate evaluation of methodology and biases by P. Morfeld and T.C. Erren. <i>Cardiovascular Research</i> , 2020 , 116, e102	9.9	1
161	Loss of life expectancy from air pollution compared to other risk factors: a worldwide perspective. <i>Cardiovascular Research</i> , 2020 , 116, 1910-1917	9.9	185
160	The Red Sea Deep Water is a potent source of atmospheric ethane and propane. <i>Nature Communications</i> , 2020 , 11, 447	17.4	12
159	Effects of Dry Deposition on Surface Ozone over South Asia Inferred from a Regional Chemical Transport Model. <i>ACS Earth and Space Chemistry</i> , 2020 , 4, 321-327	3.2	5
158	Measurements of carbonyl compounds around the Arabian Peninsula: overview and model comparison. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 10807-10829	6.8	5
157	Impact of the South Asian monsoon outflow on atmospheric hydroperoxides in the upper troposphere. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 12655-12673	6.8	1
156	Model simulations of atmospheric methane (1997-2016) and their evaluation using NOAA and AGAGE surface and IAGOS-CARIBIC aircraft observations. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 5787-5809	6.8	0
155	Impact of U.S. Oil and Natural Gas Emission Increases on Surface Ozone Is Most Pronounced in the Central United States. <i>Environmental Science & Technology</i> , 2020 , 54, 12423-12433	10.3	6
154	Kinetics of the OH + NO ₂ reaction: effect of water vapour and new parameterization for global modelling. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 3091-3105	6.8	4

153	Regional and global contributions of air pollution to risk of death from COVID-19. <i>Cardiovascular Research</i> , 2020 , 116, 2247-2253	9.9	123
152	A modeling study of the regional representativeness of surface ozone variation at the WMO/GAW background stations in China. <i>Atmospheric Environment</i> , 2020 , 242, 117672	5.3	4
151	On the widespread enhancement in fine particulate matter across the Indo-Gangetic Plain towards winter. <i>Scientific Reports</i> , 2020 , 10, 5862	4.9	63
150	Modeling the aerosol chemical composition of the tropopause over the Tibetan Plateau during the Asian summer monsoon. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 11587-11612	6.8	16
149	Non-methane hydrocarbon (C ₂ -C ₈) sources and sinks around the Arabian Peninsula. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 7209-7232	6.8	17
148	Global tropospheric effects of aromatic chemistry with the SAPRC-11 mechanism implemented in GEOS-Chem version 9-02. <i>Geoscientific Model Development</i> , 2019 , 12, 111-130	6.3	11
147	The community atmospheric chemistry box model CAABA/MECCA-4.0. <i>Geoscientific Model Development</i> , 2019 , 12, 1365-1385	6.3	34
146	Quantifying uncertainties due to chemistry modelling: evaluation of tropospheric composition simulations in the CAMS model (cycle 43R1). <i>Geoscientific Model Development</i> , 2019 , 12, 1725-1752	6.3	15
145	Trend reversal from high-to-low and from rural-to-urban ozone concentrations over Europe. <i>Atmospheric Environment</i> , 2019 , 213, 25-36	5.3	24
144	Effects of fossil fuel and total anthropogenic emission removal on public health and climate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 7192-7197	11.5	215
143	Cardiovascular disease burden from ambient air pollution in Europe reassessed using novel hazard ratio functions. <i>European Heart Journal</i> , 2019 , 40, 1590-1596	9.5	349
142	Upper tropospheric CH ₄ and CO affected by the South Asian summer monsoon during the Oxidation Mechanism Observations mission. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 1915-1939	6.8	6
141	Revisiting the crop yield loss in India attributable to ozone. <i>Atmospheric Environment: X</i> , 2019 , 1, 100008	2.8	15
140	Acetone Atmospheric Distribution Retrieved From Space. <i>Geophysical Research Letters</i> , 2019 , 46, 2884-2893	4.9	10
139	Global modeling of fungal spores with the EMAC chemistryclimate model: uncertainties in emission parametrizations and observations 2019 ,		1
138	Influence of Arctic stratospheric ozone on surface climate in CCM1 models. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 9253-9268	6.8	9
137	Empirical evidence of a positive climate forcing of aerosols at elevated albedo. <i>Atmospheric Research</i> , 2019 , 229, 269-279	5.4	9
136	Diurnal variability, photochemical production and loss processes of hydrogen peroxide in the boundary layer over Europe. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 11953-11968	6.8	5

135	On the impact of future climate change on tropopause folds and tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 14387-14401	6.8	11
134	Exploring the temporal trends and seasonal behaviour of tropospheric trace gases over Pakistan by exploiting satellite observations. <i>Atmospheric Environment</i> , 2019 , 198, 279-290	5.3	9
133	Long-term concentrations of fine particulate matter and impact on human health in Verona, Italy. <i>Atmospheric Pollution Research</i> , 2019 , 10, 731-738	4.5	26
132	Estimating health and economic benefits of reductions in air pollution from agriculture. <i>Science of the Total Environment</i> , 2018 , 622-623, 1304-1316	10.2	58
131	Temperature-(208±18 K) and pressure-(18±96 Torr) dependent rate coefficients for the reaction between OH and HNO ₂ . <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2381-2394	6.8	14
130	Tropospheric jet response to Antarctic ozone depletion: An update with Chemistry-Climate Model Initiative (CCMI) models. <i>Environmental Research Letters</i> , 2018 , 13, 054024	6.2	30
129	ORACLE 2-D(v2.0): an efficient module to compute the volatility and oxygen content of organic aerosol with a global chemistry-climate model. <i>Geoscientific Model Development</i> , 2018 , 11, 3369-3389	6.3	15
128	The South Asian monsoon-pollution pump and purifier. <i>Science</i> , 2018 , 361, 270-273	33.3	63
127	Strong sesquiterpene emissions from Amazonian soils. <i>Nature Communications</i> , 2018 , 9, 2226	17.4	35
126	Global tropospheric effects of aromatic chemistry with the SAPRC-11 mechanism implemented in GEOS-Chem 2018 ,		1
125	Uncertainties in estimates of mortality attributable to ambient PM 2.5 in Europe. <i>Environmental Research Letters</i> , 2018 , 13, 064029	6.2	12
124	Two new submodels for the Modular Earth Submodel System (MESSy): New Aerosol Nucleation (NAN) and small ions (IONS) version 1.0. <i>Geoscientific Model Development</i> , 2018 , 11, 4987-5001	6.3	1
123	Implementation of a comprehensive ice crystal formation parameterization for cirrus and mixed-phase clouds in the EMAC model (based on MESSy 2.53). <i>Geoscientific Model Development</i> , 2018 , 11, 4021-4041	6.3	8
122	Age of air as a diagnostic for transport timescales in global models. <i>Geoscientific Model Development</i> , 2018 , 11, 3109-3130	6.3	28
121	Model simulations of atmospheric methane and their evaluation using AGAGE/NOAA surface- and IAGOS-CARIBIC aircraft observations, 1997-2014 2018 ,		5
120	Oxidation processes in the Eastern Mediterranean atmosphere: Evidence from the Modelling of HO ₂ and Measurements over Cyprus 2018 ,		1
119	Oxidation processes in the eastern Mediterranean atmosphere: evidence from the modelling of HO ₂ and measurements over Cyprus. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10825-10847	6.8	22
118	Revised mineral dust emissions in the atmospheric chemistry-climate model EMAC (MESSy 2.52 DU_Astitha1 KKDU2017 patch). <i>Geoscientific Model Development</i> , 2018 , 11, 989-1008	6.3	26

117	Analysis of European ozone trends in the period 1995–2014. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5589-5605	6.8	52
116	Age-dependent health risk from ambient air pollution: a modelling and data analysis of childhood mortality in middle-income and low-income countries. <i>Lancet Planetary Health</i> , 2018 , 2, e292-e300	9.8	65
115	Global impact of monocyclic aromatics on tropospheric composition 2017 ,		1
114	Temperature (208–18 K) and pressure (18–96 Torr) dependent rate coefficients for the reaction between OH and HNO ₃ ; 2017 ,		1
113	Impact of agricultural emission reductions on fine particulate matter and public health 2017 ,		1
112	Aerosol physicochemical effects on CCN activation simulated with the chemistry-climate model EMAC. <i>Atmospheric Environment</i> , 2017 , 162, 127-140	5.3	18
111	Influence of local production and vertical transport on the organic aerosol budget over Paris. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 8276-8296	4.4	9
110	Aerosol Health Effects from Molecular to Global Scales. <i>Environmental Science & Technology</i> , 2017 , 51, 13545-13567	10.3	235
109	Tropopause Folds Over the Eastern Mediterranean and the Middle East in EMAC Simulations: Implications for Summertime Tropospheric Ozone. <i>Springer Atmospheric Sciences</i> , 2017 , 975-981	0.7	
108	Secondary ozone peaks in the troposphere over the Himalayas. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 6743-6757	6.8	17
107	Investigation of global particulate nitrate from the AeroCom phase III experiment. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 12911-12940	6.8	58
106	WRF-Chem simulated surface ozone over south Asia during the pre-monsoon: effects of emission inventories and chemical mechanisms. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 14393-14413	6.8	42
105	The influence of deep convection on HCHO and H ₂ O ₂ in the upper troposphere over Europe. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 11835-11848	6.8	3
104	Impact of agricultural emission reductions on fine-particulate matter and public health. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 12813-12826	6.8	95
103	Variations in O ₃ , CO, and CH ₄ over the Bay of Bengal during the summer monsoon season: shipborne measurements and model simulations. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 257-275	6.8	24
102	Sensitivity of transatlantic dust transport to chemical aging and related atmospheric processes. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 3799-3821	6.8	24
101	Direct oceanic emissions unlikely to account for the missing source of atmospheric carbonyl sulfide. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 385-402	6.8	36
100	Global impact of mineral dust on cloud droplet number concentration. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 5601-5621	6.8	42

99	Atmospheric chemistry, sources and sinks of carbon suboxide, C ₃ O ₂ . <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 8789-8804	6.8	4
98	Investigation of global nitrate from the AeroCom Phase III experiment 2017 ,		1
97	The Impact of Fine Particulate Outdoor Air Pollution to Premature Mortality. <i>Springer Atmospheric Sciences</i> , 2017 , 1021-1026	0.7	5
96	The STRatospheric Estimation Algorithm from Mainz (STREAM): estimating stratospheric NO ₂ from nadir-viewing satellites by weighted convolution. <i>Atmospheric Measurement Techniques</i> , 2016 , 9, 2753-2779	4	22
95	Aerosol optical depth trend over the Middle East 2016 ,		2
94	Implementing the US air quality standard for PM _{2.5} worldwide can prevent millions of premature deaths per year. <i>Environmental Health</i> , 2016 , 15, 88	6	64
93	On the role of tropopause folds in summertime tropospheric ozone over the eastern Mediterranean and the Middle East. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 14025-14039	6.8	42
92	Effects of mineral dust on global atmospheric nitrate concentrations. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1491-1509	6.8	51
91	Projection of North Atlantic Oscillation and its effect on tracer transport. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 15581-15592	6.8	12
90	Boundary layer evolution over the central Himalayas from radio wind profiler and model simulations. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 10559-10572	6.8	32
89	Global tropospheric hydroxyl distribution, budget and reactivity. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 12477-12493	6.8	173
88	Ozone and carbon monoxide over India during the summer monsoon: regional emissions and transport. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 3013-3032	6.8	28
87	Aerosol optical depth trend over the Middle East. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 5063-5076	6.8	117
86	Global atmospheric budget of simple monocyclic aromatic compounds. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 6931-6947	6.8	38
85	Effects of convection and long-range transport on the distribution of carbon monoxide in the troposphere over India. <i>Atmospheric Pollution Research</i> , 2016 , 7, 775-785	4.5	16
84	Trend estimates of AERONET-observed and model-simulated AOTs between 1993 and 2013. <i>Atmospheric Environment</i> , 2016 , 125, 33-47	5.3	22
83	Reversal of global atmospheric ethane and propane trends largely due to US oil and natural gas production. <i>Nature Geoscience</i> , 2016 , 9, 490-495	18.3	109
82	Chemical aging of atmospheric mineral dust during transatlantic transport 2016 ,		1

81	Variations in O ₃ , CO, and CH ₄ over the Bay of Bengal during the summer monsoon season: Ship-borne measurements and model simulations 2016 ,		1
80	Global tropospheric hydroxyl distribution, budget and reactivity 2016 ,		3
79	WRF-Chem simulated surface ozone over South Asia during the pre-monsoon: Effects of emission inventories and chemical mechanisms 2016 ,		3
78	Earth System Chemistry integrated Modelling (ESCiMo) with the Modular Earth Submodel System (MESSy) version 2.5.1. <i>Geoscientific Model Development</i> , 2016 , 9, 1153-1200	6.3	153
77	Ozone air quality simulations with WRF-Chem (v3.5.1) over Europe: model evaluation and chemical mechanism comparison. <i>Geoscientific Model Development</i> , 2016 , 9, 3699-3728	6.3	39
76	The contribution of outdoor air pollution sources to premature mortality on a global scale. <i>Nature</i> , 2015 , 525, 367-71	50.4	2846
75	AOD trends during 2001–2010 from observations and model simulations. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 5521-5535	6.8	97
74	Long-term (2001–2012) concentrations of fine particulate matter (PM _{2.5}) and the impact on human health in Beijing, China. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 5715-5725	6.8	147
73	Hydrogen peroxide in the marine boundary layer over the South Atlantic during the OOMPH cruise in March 2007. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6971-6980	6.8	14
72	Revision of the convective transport module CVTRANS 2.4 in the EMAC atmospheric chemistry–climate model. <i>Geoscientific Model Development</i> , 2015 , 8, 2435-2445	6.3	4
71	Description and implementation of a MiXed Layer model (MXL, v1.0) for the dynamics of the atmospheric boundary layer in the Modular Earth Submodel System (MESSy). <i>Geoscientific Model Development</i> , 2015 , 8, 453-471	6.3	5
70	Modeled global effects of airborne desert dust on air quality and premature mortality. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 957-968	6.8	107
69	Model-simulated trend of surface carbon monoxide for the 2001–2010 decade. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 10465-10482	6.8	41
68	Global and regional impacts of HONO on the chemical composition of clouds and aerosols. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1167-1184	6.8	27
67	Profile information on CO from SCIAMACHY observations using cloud slicing and comparison with model simulations. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 1717-1732	6.8	7
66	Summertime free-tropospheric ozone pool over the eastern Mediterranean/Middle East. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 115-132	6.8	90
65	The photolysis module JVAL-14, compatible with the MESSy standard, and the JVal PreProcessor (JVPP). <i>Geoscientific Model Development</i> , 2014 , 7, 2653-2662	6.3	45
64	ORACLE (v1.0): module to simulate the organic aerosol composition and evolution in the atmosphere. <i>Geoscientific Model Development</i> , 2014 , 7, 3153-3172	6.3	46

63	Model projected heat extremes and air pollution in the eastern Mediterranean and Middle East in the twenty-first century. <i>Regional Environmental Change</i> , 2014 , 14, 1937-1949	4.3	64
62	Impact of Different Physical Parameterizations on the Global Modeling of Desert Dust □ Importance of the Initialization Fields. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2014 , 119-123	0.3	
61	Model calculated global, regional and megacity premature mortality due to air pollution. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 7023-7037	6.8	145
60	Technical Note: Temporal change in averaging kernels as a source of uncertainty in trend estimates of carbon monoxide retrieved from MOPITT. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 11307-11316	6.8	16
59	Trend analysis in aerosol optical depths and pollutant emission estimates between 2000 and 2009. <i>Atmospheric Environment</i> , 2012 , 51, 75-85	5.3	95
58	EMAC model evaluation and analysis of atmospheric aerosol properties and distribution with a focus on the Mediterranean region. <i>Atmospheric Research</i> , 2012 , 114-115, 38-69	5.4	39
57	Does acetone react with HO₂ in the upper-troposphere?. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 1339-1351	6.8	11
56	Parameterization of dust emissions in the global atmospheric chemistry-climate model EMAC: impact of nudging and soil properties. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 11057-11083	6.8	61
55	Effects of business-as-usual anthropogenic emissions on air quality. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6915-6937	6.8	66
54	Distributions and regional budgets of aerosols and their precursors simulated with the EMAC chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 961-987	6.8	108
53	A high-resolution emission inventory of primary pollutants for the Huabei region, China. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 481-501	6.8	165
52	Influence of the North Atlantic Oscillation on air pollution transport. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 869-877	6.8	48
51	Application of SCIAMACHY and MOPITT CO total column measurements to evaluate model results over biomass burning regions and Eastern China. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 6083-6114	6.8	30
50	The Atmosphere-Ocean General Circulation Model EMAC-MPIOM. <i>Geoscientific Model Development</i> , 2011 , 4, 771-784	6.3	21
49	Desert Dust Particle Distribution: From Global to Regional Scales. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2011 , 607-611	0.3	
48	Development cycle 2 of the Modular Earth Submodel System (MESSy2). <i>Geoscientific Model Development</i> , 2010 , 3, 717-752	6.3	293
47	Development cycle 2 of the Modular Earth Submodel System (MESSy2) 2010 ,		8
46	Assessing the effect of marine isoprene and ship emissions on ozone, using modelling and measurements from the South Atlantic Ocean. <i>Environmental Chemistry</i> , 2010 , 7, 171	3.2	23

45	Global distribution of the effective aerosol hygroscopicity parameter for CCN activation. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5241-5255	6.8	182
44	Observed and simulated global distribution and budget of atmospheric C ₂ H ₂ , C ₂ H ₄ , C ₂ H ₆ and alkanes. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 4403-4422	6.8	85
43	Atmosphere-ocean ozone exchange: A global modeling study of biogeochemical, atmospheric, and waterside turbulence dependencies. <i>Global Biogeochemical Cycles</i> , 2009 , 23, n/a-n/a	5.9	73
42	Severe ozone air pollution in the Persian Gulf region. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 1393-1406	6.8	80
41	Corrigendum to "Technical Note: An implementation of the dry removal processes DRY DEPosition and SEDimentation in the Modular Earth Submodel System (MESSy)" published in <i>Atmos. Chem. Phys.</i> , 6, 4617-4632, 2006. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 9569-9569	6.8	5
40	The influence of the vertical distribution of emissions on tropospheric chemistry. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 9417-9432	6.8	47
39	Consistent simulation of bromine chemistry from the marine boundary layer to the stratosphere □ Part 1: Model description, sea salt aerosols and pH. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 5899-5917	6.8	23
38	Technical Note: Coupling of chemical processes with the Modular Earth Submodel System (MESSy) submodel TRACER. <i>Atmospheric Chemistry and Physics</i> , 2008 , 8, 1677-1687	6.8	49
37	Simulating organic species with the global atmospheric chemistry general circulation model ECHAM5/MESSy1: a comparison of model results with observations. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 2527-2550	6.8	81
36	Global cloud and precipitation chemistry and wet deposition: tropospheric model simulations with ECHAM5/MESSy1. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 2733-2757	6.8	84
35	The atmospheric chemistry general circulation model ECHAM5/MESSy1: consistent simulation of ozone from the surface to the mesosphere. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 5067-5104	6.8	436
34	Technical Note: The MESSy-submodel AIRSEA calculating the air-sea exchange of chemical species. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 5435-5444	6.8	61
33	Technical Note: An implementation of the dry removal processes DRY DEPosition and SEDimentation in the Modular Earth Submodel System (MESSy). <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 4617-4632	6.8	173
32	Influence of aromatics on tropospheric gas-phase composition		2
31	Does acetone react with HO ₂ in the upper-troposphere?		1
30	Global distribution of the effective aerosol hygroscopicity parameter for CCN activation		1
29	Application of SCIAMACHY and MOPITT CO total column measurements to evaluate model results over biomass burning regions and Eastern China		3
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