

Johannes Lelieveld

List of Publications by Year in descending order

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517
papers

46,145
citations

2543

96
h-index

3647

180
g-index

831
all docs

831
docs citations

831
times ranked

28708
citing authors

#	ARTICLE	IF	CITATIONS
1	The contribution of outdoor air pollution sources to premature mortality on a global scale. <i>Nature</i> , 2015, 525, 367-371.	13.7	4,052
2	Indian Ocean Experiment: An integrated analysis of the climate forcing and effects of the great Indo-Asian haze. <i>Journal of Geophysical Research</i> , 2001, 106, 28371-28398.	3.3	1,199
3	Role of mineral aerosol as a reactive surface in the global troposphere. <i>Journal of Geophysical Research</i> , 1996, 101, 22869-22889.	3.3	997
4	Global Air Pollution Crossroads over the Mediterranean. <i>Science</i> , 2002, 298, 794-799.	6.0	920
5	Atmospheric oxidation capacity sustained by a tropical forest. <i>Nature</i> , 2008, 452, 737-740.	13.7	864
6	The Indian Ocean Experiment: Widespread Air Pollution from South and Southeast Asia. <i>Science</i> , 2001, 291, 1031-1036.	6.0	687
7	COVID-19 lockdowns cause global air pollution declines. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 18984-18990.	3.3	621
8	What controls tropospheric ozone?. <i>Journal of Geophysical Research</i> , 2000, 105, 3531-3551.	3.3	577
9	Cardiovascular disease burden from ambient air pollution in Europe reassessed using novel hazard ratio functions. <i>European Heart Journal</i> , 2019, 40, 1590-1596.	1.0	570
10	The atmospheric chemistry general circulation model ECHAM5/MESy1: consistent simulation of ozone from the surface to the mesosphere. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5067-5104.	1.9	528
11	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.	3.3	515
12	Transient Climate Change Simulations with a Coupled Atmosphere–Ocean GCM Including the Tropospheric Sulfur Cycle. <i>Journal of Climate</i> , 1999, 12, 3004-3032.	1.2	467
13	Evaluation of emissions and air quality in megacities. <i>Atmospheric Environment</i> , 2008, 42, 1593-1606.	1.9	434
14	Loss of life expectancy from air pollution compared to other risk factors: a worldwide perspective. <i>Cardiovascular Research</i> , 2020, 116, 1910-1917.	1.8	427
15	Climate change and impacts in the Eastern Mediterranean and the Middle East. <i>Climatic Change</i> , 2012, 114, 667-687.	1.7	425
16	Atmospheric pollutant outflow from southern Asia: a review. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 11017-11096.	1.9	419
17	Influences of cloud photochemical processes on tropospheric ozone. <i>Nature</i> , 1990, 343, 227-233.	13.7	392
18	Changing concentration, lifetime and climate forcing of atmospheric methane. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1998, 50, 128-150.	0.8	389

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19	Aerosol Health Effects from Molecular to Global Scales. <i>Environmental Science & Technology</i> , 2017, 51, 13545-13567.	4.6	384
20	The impact of nonmethane hydrocarbon compounds on tropospheric photochemistry. <i>Journal of Geophysical Research</i> , 1998, 103, 10673-10696.	3.3	368
21	A 1°–1° resolution data set of historical anthropogenic trace gas emissions for the period 1890-1990. <i>Global Biogeochemical Cycles</i> , 2001, 15, 909-928.	1.9	364
22	The role of clouds in tropospheric photochemistry. <i>Journal of Atmospheric Chemistry</i> , 1991, 12, 229-267.	1.4	358
23	Simulation of the tropospheric sulfur cycle in a global climate model. <i>Atmospheric Environment</i> , 1996, 30, 1693-1707.	1.9	348
24	Human health risks in megacities due to air pollution. <i>Atmospheric Environment</i> , 2010, 44, 4606-4613.	1.9	315
25	Changing concentration, lifetime and climate forcing of atmospheric methane. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 50, 128.	0.8	311
26	Small Interannual Variability of Global Atmospheric Hydroxyl. <i>Science</i> , 2011, 331, 67-69.	6.0	306
27	Strongly increasing heat extremes in the Middle East and North Africa (MENA) in the 21st century. <i>Climatic Change</i> , 2016, 137, 245-260.	1.7	301
28	Biogeochemical cycling of carbon, water, energy, trace gases, and aerosols in Amazonia: The LBA-EUSTACH experiments. <i>Journal of Geophysical Research</i> , 2002, 107, LBA 33-1.	3.3	295
29	Global distribution of particle phase state in atmospheric secondary organic aerosols. <i>Nature Communications</i> , 2017, 8, 15002.	5.8	295
30	Civil Aircraft for the regular investigation of the atmosphere based on an instrumented container: The new CARIBIC system. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4953-4976.	1.9	289
31	Inverse modeling of methane sources and sinks using the adjoint of a global transport model. <i>Journal of Geophysical Research</i> , 1999, 104, 26137-26160.	3.3	286
32	Transport impacts on atmosphere and climate: Land transport. <i>Atmospheric Environment</i> , 2010, 44, 4772-4816.	1.9	285
33	Technical Note: The Modular Earth Submodel System (MESSy) - a new approach towards Earth System Modeling. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 433-444.	1.9	282
34	Technical note: The new comprehensive atmospheric chemistry module MECCA. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 445-450.	1.9	273
35	Technical note: A new comprehensive SCAVenging submodel for global atmospheric chemistry modelling. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 565-574.	1.9	265
36	Effects of gaseous and solid constituents of air pollution on endothelial function. <i>European Heart Journal</i> , 2018, 39, 3543-3550.	1.0	263

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37	Regional and global contributions of air pollution to risk of death from COVID-19. <i>Cardiovascular Research</i> , 2020, 116, 2247-2253.	1.8	262
38	Global tropospheric hydroxyl distribution, budget and reactivity. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 12477-12493.	1.9	255
39	Transport of biomass burning smoke to the upper troposphere by deep convection in the equatorial region. <i>Geophysical Research Letters</i> , 2001, 28, 951-954.	1.5	234
40	Dry deposition parameterization in a chemistry general circulation model and its influence on the distribution of reactive trace gases. <i>Journal of Geophysical Research</i> , 1995, 100, 20999.	3.3	231
41	Global distribution of the effective aerosol hygroscopicity parameter for CCN activation. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 5241-5255.	1.9	230
42	European scientific assessment of the atmospheric effects of aircraft emissions. <i>Atmospheric Environment</i> , 1998, 32, 2329-2418.	1.9	228
43	Emission estimates and trends (1990–2000) for megacity Delhi and implications. <i>Atmospheric Environment</i> , 2004, 38, 5663-5681.	1.9	215
44	Role of Deep Cloud Convection in the Ozone Budget of the Troposphere. <i>Science</i> , 1994, 264, 1759-1761.	6.0	208
45	Ambient Air Pollution Increases the Risk of Cerebrovascular and Neuropsychiatric Disorders through Induction of Inflammation and Oxidative Stress. <i>International Journal of Molecular Sciences</i> , 2020, 21, 4306.	1.8	190
46	The Comparative Reactivity Method – a new tool to measure total OH Reactivity in ambient air. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 2213-2227.	1.9	188
47	Gas/aerosol partitioning: 1. A computationally efficient model. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 16-1.	3.3	185
48	Isoprene and monoterpene fluxes from Central Amazonian rainforest inferred from tower-based and airborne measurements, and implications on the atmospheric chemistry and the local carbon budget. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2855-2879.	1.9	181
49	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.	1.9	181
50	Model calculated global, regional and megacity premature mortality due to air pollution. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7023-7037.	1.9	179
51	Description and evaluation of GMX: a new aerosol submodel for global simulations (v1). <i>Geoscientific Model Development</i> , 2010, 3, 391-412.	1.3	178
52	The role of carbonyl sulphide as a source of stratospheric sulphate aerosol and its impact on climate. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 1239-1253.	1.9	178
53	The Palaeoanthropocene – The beginnings of anthropogenic environmental change. <i>Anthropocene</i> , 2013, 3, 83-88.	1.6	178
54	Sulfate Cooling Effect on Climate Through In-Cloud Oxidation of Anthropogenic SO ₂ . <i>Science</i> , 1992, 258, 117-120.	6.0	176

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55	On the role of hydroxyl radicals in the self-cleansing capacity of the troposphere. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 2337-2344.	1.9	176
56	Hydroxyl radical buffered by isoprene oxidation over tropical forests. <i>Nature Geoscience</i> , 2012, 5, 190-193.	5.4	170
57	Seasonal variations of a mixing layer in the lowermost stratosphere as identified by the CO-O ₃ correlation from in situ measurements. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 1-1-ACL 1-11.	3.3	169
58	Global OH trend inferred from methylchloroform measurements. <i>Journal of Geophysical Research</i> , 1998, 103, 10697-10711.	3.3	166
59	Increasing Ozone over the Atlantic Ocean. <i>Science</i> , 2004, 304, 1483-1487.	6.0	165
60	Lightning and convection parameterisations – uncertainties in global modelling. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 4553-4568.	1.9	163
61	Aerosol optical depth trend over the Middle East. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 5063-5073.	1.9	163
62	Regional pollution potentials of megacities and other major population centers. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 3969-3987.	1.9	161
63	Impact of climate change on the water resources of the eastern Mediterranean and Middle East region: Modeled 21st century changes and implications. <i>Water Resources Research</i> , 2011, 47, .	1.7	161
64	Impact of agricultural emission reductions on fine-particulate matter and public health. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 12813-12826.	1.9	160
65	Stability of tropospheric hydroxyl chemistry. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 17-1-ACH 17-11.	3.3	158
66	Improved simulation of isoprene oxidation chemistry with the ECHAM5/MESy chemistry-climate model: lessons from the GABRIEL airborne field campaign. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 4529-4546.	1.9	158
67	Model Calculations of Aerosol Transmission and Infection Risk of COVID-19 in Indoor Environments. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 8114.	1.2	158
68	The European carbon balance. Part 4: integration of carbon and other trace-gas fluxes. <i>Global Change Biology</i> , 2010, 16, 1451-1469.	4.2	157
69	Distribution and budget of O ₃ in the troposphere calculated with a chemistry general circulation model. <i>Journal of Geophysical Research</i> , 1995, 100, 20983.	3.3	154
70	A dry deposition parameterization for sulfur oxides in a chemistry and general circulation model. <i>Journal of Geophysical Research</i> , 1998, 103, 5679-5694.	3.3	151
71	Climate effects of atmospheric methane. <i>Chemosphere</i> , 1993, 26, 739-768.	4.2	150
72	Intercomparison and evaluation of global aerosol microphysical properties among AeroCom models of a range of complexity. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4679-4713.	1.9	148

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73	Title is missing!. Journal of Atmospheric Chemistry, 2001, 38, 133-166.	1.4	145
74	The impact of traffic emissions on atmospheric ozone and OH: results from QUANTIFY. Atmospheric Chemistry and Physics, 2009, 9, 3113-3136.	1.9	143
75	Extreme precipitation events in the Middle East: Dynamics of the Active Red Sea Trough. Journal of Geophysical Research D: Atmospheres, 2013, 118, 7087-7108.	1.2	143
76	The role of environmental variables on <i>Aedes albopictus</i> biology and chikungunya epidemiology. Pathogens and Global Health, 2013, 107, 224-241.	1.0	140
77	Influence of different convection parameterisations in a GCM. Atmospheric Chemistry and Physics, 2006, 6, 5475-5493.	1.9	139
78	Model study of the influence of cross-tropopause O ₃ transports on tropospheric O ₃ levels. Tellus, Series B: Chemical and Physical Meteorology, 1997, 49, 38-55.	0.8	138
79	Tracer correlations in the northern high latitude lowermost stratosphere: Influence of cross-tropopause mass exchange. Geophysical Research Letters, 2000, 27, 97-100.	1.5	138
80	Modeled global effects of airborne desert dust on air quality and premature mortality. Atmospheric Chemistry and Physics, 2014, 14, 957-968.	1.9	138
81	Saharan dust in Brazil and Suriname during the Large-Scale Biosphere-Atmosphere Experiment in Amazonia (LBA) - Cooperative LBA Regional Experiment (CLAIRE) in March 1998. Journal of Geophysical Research, 2001, 106, 14919-14934.	3.3	131
82	Summertime free-tropospheric ozone pool over the eastern Mediterranean/Middle East. Atmospheric Chemistry and Physics, 2014, 14, 115-132.	1.9	131
83	Climate Change and Weather Extremes in the Eastern Mediterranean and Middle East. Reviews of Geophysics, 2022, 60, .	9.0	131
84	Distributions and regional budgets of aerosols and their precursors simulated with the EMAC chemistry-climate model. Atmospheric Chemistry and Physics, 2012, 12, 961-987.	1.9	130
85	Global chemical weather forecasts for field campaign planning: predictions and observations of large-scale features during MINOS, CONTRACE, and INDOEX. Atmospheric Chemistry and Physics, 2003, 3, 267-289.	1.9	128
86	The representation of emissions from megacities in global emission inventories. Atmospheric Environment, 2008, 42, 703-719.	1.9	128
87	Importance of mineral cations and organics in gas-aerosol partitioning of reactive nitrogen compounds: case study based on MINOS results. Atmospheric Chemistry and Physics, 2006, 6, 2549-2567.	1.9	127
88	Strong air pollution causes widespread haze clouds over China. Journal of Geophysical Research, 2010, 115, .	3.3	127
89	OH Reactivity Measurements within a Boreal Forest: Evidence for Unknown Reactive Emissions. Environmental Science & Technology, 2010, 44, 6614-6620.	4.6	127
90	Hydroxyl radicals in the tropical troposphere over the Suriname rainforest: airborne measurements. Atmospheric Chemistry and Physics, 2010, 10, 3759-3773.	1.9	122

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91	The summer circulation over the eastern Mediterranean and the Middle East: influence of the South Asian monsoon. <i>Climate Dynamics</i> , 2013, 40, 1103-1123.	1.7	121
92	Airborne observations of dust aerosol over the North Atlantic Ocean during ACE 2: Indications for heterogeneous ozone destruction. <i>Journal of Geophysical Research</i> , 2000, 105, 15263-15275.	3.3	120
93	Model study of the influence of cross-tropopause O ₃ transports on tropospheric O ₃ levels. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 49, 38.	0.8	116
94	Significant concentrations of nitryl chloride observed in rural continental Europe associated with the influence of sea salt chloride and anthropogenic emissions. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	116
95	A comparison of scavenging and deposition processes in global models: results from the WCRP Cambridge Workshop of 1995. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2000, 52, 1025-1056.	0.8	113
96	A multi-model, multi-scenario, and multi-domain analysis of regional climate projections for the Mediterranean. <i>Regional Environmental Change</i> , 2019, 19, 2621-2635.	1.4	113
97	Mainz Isoprene Mechanism 2 (MIM2): an isoprene oxidation mechanism for regional and global atmospheric modelling. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 2751-2777.	1.9	112
98	High spatial and temporal resolution measurements of primary organics and their oxidation products over the tropical forests of Surinam. <i>Atmospheric Environment</i> , 2000, 34, 1161-1165.	1.9	111
99	Title is missing!. <i>Journal of Atmospheric Chemistry</i> , 2001, 38, 167-185.	1.4	111
100	Summertime total OH reactivity measurements from boreal forest during HUMPPA-COPEC 2010. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 8257-8270.	1.9	111
101	Can the variability in tropospheric OH be deduced from measurements of 1,1,1-trichloroethane (methyl) Tj ETQq1 1,0.784314 rgBT /Ove	3.3	116
102	Hydroxyl radicals in the tropical troposphere over the Suriname rainforest: comparison of measurements with the box model MECCA. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9705-9728.	1.9	110
103	Trend analysis in aerosol optical depths and pollutant emission estimates between 2000 and 2009. <i>Atmospheric Environment</i> , 2012, 51, 75-85.	1.9	110
104	Stratospheric dryness: model simulations and satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 1313-1332.	1.9	109
105	Observation and modelling of HO ₂ radicals in a boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 8723-8747.	1.9	109
106	Interannual variability and trend of CH ₄ lifetime as a measure for OH changes in the 1979–1993 time period. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	108
107	The summertime Boreal forest field measurement intensive (HUMPPA-COPEC-2010): an overview of meteorological and chemical influences. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10599-10618.	1.9	108
108	Direct observation of OH formation from stabilised Criegee intermediates. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 19941-19951.	1.3	108

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109	Global soil-biogenic NO _x emissions and the role of canopy processes. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 9-1.	3.3	107
110	Comprehensive two-dimensional gas chromatography (GC-MS) measurements of volatile organic compounds in the atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 665-682.	1.9	106
111	Role of the NO ₃ radicals in oxidation processes in the eastern Mediterranean troposphere during the MINOS campaign. <i>Atmospheric Chemistry and Physics</i> , 2004, 4, 169-182.	1.9	106
112	Estimating health and economic benefits of reductions in air pollution from agriculture. <i>Science of the Total Environment</i> , 2018, 622-623, 1304-1316.	3.9	106
113	Severe ozone air pollution in the Persian Gulf region. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 1393-1406.	1.9	105
114	Intercomparison of temperature and precipitation data sets based on observations in the Mediterranean and the Middle East. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	105
115	Global cloud and precipitation chemistry and wet deposition: tropospheric model simulations with ECHAM5/MESM1. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2733-2757.	1.9	104
116	Observed and simulated global distribution and budget of atmospheric C ₂ -C ₅ alkanes. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 4403-4422.	1.9	104
117	Observations and model calculations of trace gas scavenging in a dense Saharan dust plume during MINATROC. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 1787-1803.	1.9	103
118	Impact of Manaus City on the Amazon Green Ocean atmosphere: ozone production, precursor sensitivity and aerosol load. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 9251-9282.	1.9	103
119	Projected changes in heat wave characteristics in the eastern Mediterranean and the Middle East. <i>Regional Environmental Change</i> , 2016, 16, 1863-1876.	1.4	103
120	Indirect chemical effects of methane on climate warming. <i>Nature</i> , 1992, 355, 339-342.	13.7	101
121	Continuing emissions of methyl chloroform from Europe. <i>Nature</i> , 2003, 421, 131-135.	13.7	100
122	Climatology and Dynamics of the Summer Etesian Winds over the Eastern Mediterranean*. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 3374-3396.	0.6	100
123	Impact of future land use and land cover changes on atmospheric chemistry-climate interactions. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	99
124	Global modeling of SOA formation from dicarbonyls, epoxides, organic nitrates and peroxides. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4743-4774.	1.9	98
125	Nocturnal nitrogen oxides at a rural mountain-site in south-western Germany. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2795-2812.	1.9	97
126	Methane formation in aerobic environments. <i>Environmental Chemistry</i> , 2009, 6, 459.	0.7	96

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127	A three-dimensional chemistry/general circulation model simulation of anthropogenically derived ozone in the troposphere and its radiative climate forcing. <i>Journal of Geophysical Research</i> , 1997, 102, 23389-23401.	3.3	95
128	Oxygenated compounds in aged biomass burning plumes over the Eastern Mediterranean: evidence for strong secondary production of methanol and acetone. <i>Atmospheric Chemistry and Physics</i> , 2005, 5, 39-46.	1.9	95
129	Simulating organic species with the global atmospheric chemistry general circulation model ECHAM5/MESy1: a comparison of model results with observations. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2527-2550.	1.9	95
130	Gas/aerosol partitioning 2. Global modeling results. <i>Journal of Geophysical Research</i> , 2002, 107, ACH 17-1.	3.3	94
131	Chemists can help to solve the air-pollution health crisis. <i>Nature</i> , 2017, 551, 291-293.	13.7	93
132	Human Impacts on Atmospheric Chemistry. <i>Annual Review of Earth and Planetary Sciences</i> , 2001, 29, 17-45.	4.6	92
133	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> , The, 2018, 2, e292-e300.	5.1	92
134	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.	1.7	91
135	New Directions: Megacities and global change. <i>Atmospheric Environment</i> , 2005, 39, 391-393.	1.9	90
136	Aerosol analysis using a Thermal-Desorption Proton-Transfer-Reaction Mass Spectrometer (TD-PTR-MS): a new approach to study processing of organic aerosols. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 2257-2267.	1.9	90
137	Low methane leakage from gas pipelines. <i>Nature</i> , 2005, 434, 841-842.	13.7	89
138	Modelling the global atmospheric transport and deposition of radionuclides from the Fukushima Dai-ichi nuclear accident. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 1425-1438.	1.9	88
139	Economic crisis detected from space: Air quality observations over Athens/Greece. <i>Geophysical Research Letters</i> , 2013, 40, 458-463.	1.5	88
140	Global risk of radioactive fallout after major nuclear reactor accidents. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 4245-4258.	1.9	87
141	The impact of monsoon outflow from India and Southeast Asia in the upper troposphere over the eastern Mediterranean. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 1589-1608.	1.9	86
142	Impact of HONO on global atmospheric chemistry calculated with an empirical parameterization in the EMAC model. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 9977-10000.	1.9	86
143	The South Asian monsoon is a "pollution pump and purifier". <i>Science</i> , 2018, 361, 270-273.	6.0	85
144	Deep convective injection of boundary layer air into the lowermost stratosphere at midlatitudes. <i>Atmospheric Chemistry and Physics</i> , 2003, 3, 739-745.	1.9	84

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145	Characterisation of an inlet pre-injector laser-induced fluorescence instrument for the measurement of atmospheric hydroxyl radicals. <i>Atmospheric Measurement Techniques</i> , 2014, 7, 3413-3430.	1.2	83
146	Estimating the atmospheric concentration of Criegee intermediates and their possible interference in a FAGE-LIF instrument. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 7807-7826.	1.9	82
147	Evidence for a recurring eastern North America upper tropospheric ozone maximum during summer. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	81
148	Modelled suppression of boundary-layer clouds by plants in a CO ₂ -rich atmosphere. <i>Nature Geoscience</i> , 2012, 5, 701-704.	5.4	81
149	Constraints on instantaneous ozone production rates and regimes during DOMINO derived using in-situ OH reactivity measurements. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 7269-7283.	1.9	81
150	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.	1.4	81
151	Technical Note: The MESSy-submodel AIRSEA calculating the air-sea exchange of chemical species. <i>Atmospheric Chemistry and Physics</i> , 2006, 6, 5435-5444.	1.9	79
152	Environmental risk factors and cardiovascular diseases: a comprehensive expert review. <i>Cardiovascular Research</i> , 2022, 118, 2880-2902.	1.8	78
153	Simulation of preindustrial atmospheric methane to constrain the global source strength of natural wetlands. <i>Journal of Geophysical Research</i> , 2000, 105, 17243-17255.	3.3	77
154	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.	1.9	77
155	Analysis of European ozone trends in the period 1995–2014. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 5589-5605.	1.9	77
156	The modeling of tropospheric methane: How well can point measurements be reproduced by a global model?. <i>Journal of Geophysical Research</i> , 2000, 105, 8981-9002.	3.3	76
157	Surface and boundary layer exchanges of volatile organic compounds, nitrogen oxides and ozone during the GABRIEL campaign. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 6223-6243.	1.9	76
158	Effects of business-as-usual anthropogenic emissions on air quality. <i>Atmospheric Chemistry and Physics</i> , 2012, 12, 6915-6937.	1.9	76
159	Tropospheric ozone simulation with a chemistry-general circulation model: Influence of higher hydrocarbon chemistry. <i>Journal of Geophysical Research</i> , 2000, 105, 22697-22712.	3.3	74
160	A new interactive chemistry-climate model: 1. Present-day climatology and interannual variability of the middle atmosphere using the model and 9 years of HALOE/UARS data. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	74
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