Johannes Lelieveld

List of Publications by Citations

615 papers	35,121 citations	95 h-index	168 g-index
831 ext. papers	40,628 ext. citations	7.4 avg, IF	7.49 L-index

#	Paper	IF	Citations
615	The contribution of outdoor air pollution sources to premature mortality on a global scale. *Nature*, **2015**, 525, 367-71	50.4	2846
614	Indian Ocean Experiment: An integrated analysis of the climate forcing and effects of the great Indo-Asian haze. *Journal of Geophysical Research*, **2001**, 106, 28371-28398		1041
613	Role of mineral aerosol as a reactive surface in the global troposphere. *Journal of Geophysical Research*, **1996**, 101, 22869-22889		849
612	Global air pollution crossroads over the Mediterranean. *Science*, **2002**, 298, 794-9	33.3	771
611	Atmospheric oxidation capacity sustained by a tropical forest. *Nature*, **2008**, 452, 737-40	50.4	709
610	The Indian Ocean experiment: widespread air pollution from South and Southeast Asia. *Science*, **2001**, 291, 1031-6	33.3	599
609	What controls tropospheric ozone?. *Journal of Geophysical Research*, **2000**, 105, 3531-3551		475
608	The atmospheric chemistry general circulation model ECHAM5/MESSy1: consistent simulation of ozone from the surface to the mesosphere. *Atmospheric Chemistry and Physics*, **2006**, 6, 5067-5104	6.8	436
607	Transient Climate Change Simulations with a Coupled Atmosphere□Ocean GCM Including the Tropospheric Sulfur Cycle. *Journal of Climate*, **1999**, 12, 3004-3032	4.4	418
606	. *Tellus, Series B: Chemical and Physical Meteorology*, **1998**, 50, 128-150	3.3	369
605	Cardiovascular disease burden from ambient air pollution in Europe reassessed using novel hazard ratio functions. *European Heart Journal*, **2019**, 40, 1590-1596	9.5	349
604	Evaluation of emissions and air quality in megacities. *Atmospheric Environment*, **2008**, 42, 1593-1606	5.3	348
603	Influences of cloud photochemical processes on tropospheric ozone. *Nature*, **1990**, 343, 227-233	50.4	347
602	Atmospheric pollutant outflow from southern Asia: a review. *Atmospheric Chemistry and Physics*, **2010**, 10, 11017-11096	6.8	344
601	A 1□1□ resolution data set of historical anthropogenic trace gas emissions for the period 1890□1990. *Global Biogeochemical Cycles*, **2001**, 15, 909-928	5.9	322
600	The impact of nonmethane hydrocarbon compounds on tropospheric photochemistry. *Journal of Geophysical Research*, **1998**, 103, 10673-10696		318
599	Climate change and impacts in the Eastern Mediterranean and the Middle East. *Climatic Change*, **2012**, 114, 667-687	4.5	315

598	Simulation of the tropospheric sulfur cycle in a global climate model. *Atmospheric Environment*, **1996**, 30, 1693-1707	5.3	311
597	COVID-19 lockdowns cause global air pollution declines. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 18984-18990	11.5	300
596	The role of clouds in tropospheric photochemistry. *Journal of Atmospheric Chemistry*, **1991**, 12, 229-267	3.2	297
595	Small interannual variability of global atmospheric hydroxyl. *Science*, **2011**, 331, 67-9	33.3	260
594	Human health risks in megacities due to air pollution. *Atmospheric Environment*, **2010**, 44, 4606-4613	5.3	252
593	Civil Aircraft for the regular investigation of the atmosphere based on an instrumented container: The new CARIBIC system. *Atmospheric Chemistry and Physics*, **2007**, 7, 4953-4976	6.8	239
592	Inverse modeling of methane sources and sinks using the adjoint of a global transport model. *Journal of Geophysical Research*, **1999**, 104, 26137-26160		238
591	Aerosol Health Effects from Molecular to Global Scales. *Environmental Science & Technology*, **2017**, 51, 13545-13567	10.3	235
590	Biogeochemical cycling of carbon, water, energy, trace gases, and aerosols in Amazonia: The LBA-EUSTACH experiments. *Journal of Geophysical Research*, **2002**, 107, LBA 33-1		231
589	Transport impacts on atmosphere and climate: Land transport. *Atmospheric Environment*, **2010**, 44, 4772-4816	5.3	228
588	Technical Note: The Modular Earth Submodel System (MESSy) - a new approach towards Earth System Modeling. *Atmospheric Chemistry and Physics*, **2005**, 5, 433-444	6.8	223
587	Technical note: The new comprehensive atmospheric chemistry module MECCA. *Atmospheric Chemistry and Physics*, **2005**, 5, 445-450	6.8	219
586	Effects of fossil fuel and total anthropogenic emission removal on public health and climate. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 7192-7197	11.5	215
585	Strongly increasing heat extremes in the Middle East and North Africa (MENA) in the 21st century. *Climatic Change*, **2016**, 137, 245-260	4.5	210
584	Technical note: A new comprehensive SCAVenging submodel for global atmospheric chemistry modelling. *Atmospheric Chemistry and Physics*, **2006**, 6, 565-574	6.8	205
583	Changing concentration, lifetime and climate forcing of atmospheric methane. *Tellus, Series B: Chemical and Physical Meteorology*, **1998**, 50, 128-150	3.3	204
582	Transport of biomass burning smoke to the upper troposphere by deep convection in the equatorial region. *Geophysical Research Letters*, **2001**, 28, 951-954	4.9	194
581	European scientific assessment of the atmospheric effects of aircraft emissions. *Atmospheric Environment*, **1998**, 32, 2329-2418	5.3	193

580	Global distribution of particle phase state in atmospheric secondary organic aerosols. *Nature Communications*, **2017**, 8, 15002	17.4	192
579	Emission estimates and trends (1990–2000) for megacity Delhi and implications. *Atmospheric Environment*, **2004**, 38, 5663-5681	5.3	187
578	Dry deposition parameterization in a chemistry general circulation model and its influence on the distribution of reactive trace gases. *Journal of Geophysical Research*, **1995**, 100, 20999		187
577	Loss of life expectancy from air pollution compared to other risk factors: a worldwide perspective. *Cardiovascular Research*, **2020**, 116, 1910-1917	9.9	185
576	Role of deep cloud convection in the ozone budget of the troposphere. *Science*, **1994**, 264, 1759-61	33.3	183
575	Global distribution of the effective aerosol hygroscopicity parameter for CCN activation. *Atmospheric Chemistry and Physics*, **2010**, 10, 5241-5255	6.8	182
574	Global tropospheric hydroxyl distribution, budget and reactivity. *Atmospheric Chemistry and Physics*, **2016**, 16, 12477-12493	6.8	173
573	The Comparative Reactivity Method – a new tool to measure total OH Reactivity in ambient air. *Atmospheric Chemistry and Physics*, **2008**, 8, 2213-2227	6.8	161
572	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. *Atmospheric Chemistry and Physics*, **2007**, 7, 2855-2879	6.8	159
571	Gas/aerosol partitioning: 1. A computationally efficient model. *Journal of Geophysical Research*, **2002**, 107, ACH 16-1		153
570	Increasing ozone over the Atlantic Ocean. *Science*, **2004**, 304, 1483-7	33.3	152
569	Sulfate Cooling Effect on Climate Through In-Cloud Oxidation of Anthropogenic SO2. *Science*, **1992**, 258, 117-20	33.3	151
568	Long-term (2001–2012) concentrations of fine particulate matter (PM_{2.5}) and the impact on human health in Beijing, China. *Atmospheric Chemistry and Physics*, **2015**, 15, 5715-5725	6.8	147
567	Hydroxyl radical buffered by isoprene oxidation over tropical forests. *Nature Geoscience*, **2012**, 5, 190-193	18.3	146
566	The Palaeoanthropocene – The beginnings of anthropogenic environmental change. *Anthropocene*, **2013**, 3, 83-88	3.9	145
565	Model calculated global, regional and megacity premature mortality due to air pollution. *Atmospheric Chemistry and Physics*, **2013**, 13, 7023-7037	6.8	145
564	On the role of hydroxyl radicals in the self-cleansing capacity of the troposphere. *Atmospheric Chemistry and Physics*, **2004**, 4, 2337-2344	6.8	144
563	Description and evaluation of GMXe: a new aerosol submodel for global simulations (v1). *Geoscientific Model Development*, **2010**, 3, 391-412	6.3	142

562	The role of carbonyl sulphide as a source of stratospheric sulphate aerosol and its impact on climate. *Atmospheric Chemistry and Physics*, **2012**, 12, 1239-1253	6.8	142
561	Global OH trend inferred from methylchloroform measurements. *Journal of Geophysical Research*, **1998**, 103, 10697-10711		142
560	Improved simulation of isoprene oxidation chemistry with the ECHAM5/MESSy chemistry-climate model: lessons from the GABRIEL airborne field campaign. *Atmospheric Chemistry and Physics*, **2008**, 8, 4529-4546	6.8	140
559	Regional pollution potentials of megacities and other major population centers. *Atmospheric Chemistry and Physics*, **2007**, 7, 3969-3987	6.8	139
558	The European carbon balance. Part 4: integration of carbon and other trace-gas fluxes. *Global Change Biology*, **2010**, 16, 1451-1469	11.4	138
557	Distribution and budget of O3 in the troposphere calculated with a chemistry general circulation model. *Journal of Geophysical Research*, **1995**, 100, 20983		135
556	Seasonal variations of a mixing layer in the lowermost stratosphere as identified by the CO-O3 correlation from in situ measurements. *Journal of Geophysical Research*, **2002**, 107, ACL 1-1-ACL 1-11		134
555	A dry deposition parameterization for sulfur oxides in a chemistry and general circulation model. *Journal of Geophysical Research*, **1998**, 103, 5679-5694		132
554	Stability of tropospheric hydroxyl chemistry. *Journal of Geophysical Research*, **2002**, 107, ACH 17-1-ACH 17-11		129
553	Lightning and convection parameterisations uncertainties in global modelling. *Atmospheric Chemistry and Physics*, **2007**, 7, 4553-4568	6.8	127
552	Effects of gaseous and solid constituents of air pollution on endothelial function. *European Heart Journal*, **2018**, 39, 3543-3550	9.5	126
551	An Atmospheric Chemistry Interpretation of Mass Scans Obtained from a Proton Transfer Mass Spectrometer Flown over the Tropical Rainforest of Surinam. *Journal of Atmospheric Chemistry*, **2001**, 38, 133-166	3.2	124
550	Impact of climate change on the water resources of the eastern Mediterranean and Middle East region: Modeled 21st century changes and implications. *Water Resources Research*, **2011**, 47,	5.4	123
549	Regional and global contributions of air pollution to risk of death from COVID-19. *Cardiovascular Research*, **2020**, 116, 2247-2253	9.9	123
548	. *Tellus, Series B: Chemical and Physical Meteorology*, **1997**, 49, 38-55	3.3	119
547	Aerosol optical depth trend over the Middle East. *Atmospheric Chemistry and Physics*, **2016**, 16, 5063-5073	6.8	117
546	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		115
545	Climate effects of atmospheric methane. *Chemosphere*, **1993**, 26, 739-768	8.4	115

544	Intercomparison and evaluation of global aerosol microphysical properties among AeroCom models of a range of complexity. *Atmospheric Chemistry and Physics*, **2014**, 14, 4679-4713	6.8	114
543	The impact of traffic emissions on atmospheric ozone and OH: results from QUANTIFY. *Atmospheric Chemistry and Physics*, **2009**, 9, 3113-3136	6.8	114
542	Influence of different convection parameterisations in a GCM. *Atmospheric Chemistry and Physics*, **2006**, 6, 5475-5493	6.8	113
541	OH reactivity measurements within a boreal forest: evidence for unknown reactive emissions. *Environmental Science & Technology*, **2010**, 44, 6614-20	10.3	112
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538	The representation of emissions from megacities in global emission inventories. *Atmospheric Environment*, **2008**, 42, 703-719	5.3	111
537	Strong air pollution causes widespread haze-clouds over China. *Journal of Geophysical Research*, **2010**, 115,		110
536	Distributions and regional budgets of aerosols and their precursors simulated with the EMAC chemistry-climate model. *Atmospheric Chemistry and Physics*, **2012**, 12, 961-987	6.8	108
535	Tracer correlations in the northern high latitude lowermost stratosphere: Influence of cross-tropopause mass exchange. *Geophysical Research Letters*, **2000**, 27, 97-100	4.9	108
534	Modeled global effects of airborne desert dust on air quality and premature mortality. *Atmospheric Chemistry and Physics*, **2014**, 14, 957-968	6.8	107
533	Hydroxyl radicals in the tropical troposphere over the Suriname rainforest: airborne measurements. *Atmospheric Chemistry and Physics*, **2010**, 10, 3759-3773	6.8	107
532	Significant concentrations of nitryl chloride observed in rural continental Europe associated with the influence of sea salt chloride and anthropogenic emissions. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	106
531	The role of environmental variables on Aedes albopictus biology and chikungunya epidemiology. *Pathogens and Global Health*, **2013**, 107, 224-41	3.1	105
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529	Summertime total OH reactivity measurements from boreal forest during HUMPPA-COPEC 2010. *Atmospheric Chemistry and Physics*, **2012**, 12, 8257-8270	6.8	103
528	. *Tellus, Series B: Chemical and Physical Meteorology*, **2000**, 52, 1025-1056	3.3	103
527	The summer circulation over the eastern Mediterranean and the Middle East: influence of the South Asian monsoon. *Climate Dynamics*, **2013**, 40, 1103-1123	4.2	100

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525	Isoprene and Its Oxidation Products Methyl Vinyl Ketone, Methacrolein, and Isoprene Related Peroxides Measured Online over the Tropical Rain Forest of Surinam in March 1998. *Journal of Atmospheric Chemistry*, **2001**, 38, 167-185	3.2	99
524	Can the variability in tropospheric OH be deduced from measurements of 1,1,1-trichloroethane (methyl chloroform)?. *Journal of Geophysical Research*, **2003**, 108, n/a-n/a		97
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522	Airborne observations of dust aerosol over the North Atlantic Ocean during ACE 2: Indications for heterogeneous ozone destruction. *Journal of Geophysical Research*, **2000**, 105, 15263-15275		96
521	Trend analysis in aerosol optical depths and pollutant emission estimates between 2000 and 2009. *Atmospheric Environment*, **2012**, 51, 75-85	5.3	95
520	Impact of agricultural emission reductions on fine-particulate matter and public health. *Atmospheric Chemistry and Physics*, **2017**, 17, 12813-12826	6.8	95
519	Stratospheric dryness: model simulations and satellite observations. *Atmospheric Chemistry and Physics*, **2007**, 7, 1313-1332	6.8	95
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517	Interannual variability and trend of CH4 lifetime as a measure for OH changes in the 1979–1993 time period. *Journal of Geophysical Research*, **2003**, 108,		95
516	Role of the NO₃ radicals in oxidation processes in the eastern Mediterranean troposphere during the MINOS campaign. *Atmospheric Chemistry and Physics*, **2004**, 4, 169-182	6.8	94
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514	Direct observation of OH formation from stabilised Criegee intermediates. *Physical Chemistry Chemical Physics*, **2014**, 16, 19941-51	3.6	91
513	Observations and model calculations of trace gas scavenging in a dense Saharan dust plume during MINATROC. *Atmospheric Chemistry and Physics*, **2005**, 5, 1787-1803	6.8	91
512	Summertime free-tropospheric ozone pool over the eastern Mediterranean/Middle East. *Atmospheric Chemistry and Physics*, **2014**, 14, 115-132	6.8	90
511	Impact of future land use and land cover changes on atmospheric chemistry-climate interactions. *Journal of Geophysical Research*, **2010**, 115,		90
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501	Methane formation in aerobic environments. *Environmental Chemistry*, **2009**, 6, 459	3.2	83
500	Impact of Manaus City on the Amazon Green Ocean atmosphere: ozone production, precursor sensitivity and aerosol load. *Atmospheric Chemistry and Physics*, **2010**, 10, 9251-9282	6.8	83
499	A three-dimensional chemistry/general circulation model simulation of anthropogenically derived ozone in the troposphere and its radiative climate forcing. *Journal of Geophysical Research*, **1997**, 102, 23389-23401		82
498	Observation and modelling of HO_x radicals in a boreal forest. *Atmospheric Chemistry and Physics*, **2014**, 14, 8723-8747	6.8	81
497	Simulating organic species with the global atmospheric chemistry general circulation model ECHAM5/MESSy1: a comparison of model results with observations. *Atmospheric Chemistry and Physics*, **2007**, 7, 2527-2550	6.8	81
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494	Gas/aerosol partitioning 2. Global modeling results. *Journal of Geophysical Research*, **2002**, 107, ACH 17-1		79
493	Nocturnal nitrogen oxides at a rural mountain-site in south-western Germany. *Atmospheric Chemistry and Physics*, **2010**, 10, 2795-2812	6.8	78
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486	Economic crisis detected from space: Air quality observations over Athens/Greece. *Geophysical Research Letters*, **2013**, 40, 458-463	4.9	75
485	Evidence for a recurring eastern North America upper tropospheric ozone maximum during summer. *Journal of Geophysical Research*, **2007**, 112,		74
484	Climatology and Dynamics of the Summer Etesian Winds over the Eastern Mediterranean*. *Journals of the Atmospheric Sciences*, **2013**, 70, 3374-3396	2.1	72
483	Deep convective injection of boundary layer air into the lowermost stratosphere at midlatitudes. *Atmospheric Chemistry and Physics*, **2003**, 3, 739-745	6.8	72
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469	In-situ measurement of reactive hydrocarbons at Hohenpeissenberg with comprehensive two-dimensional gas chromatography (GC□C-FID): use in estimating HO and NO₃. *Atmospheric Chemistry and Physics*, **2007**, 7, 1-14	6.8	62
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462	Estimating health and economic benefits of reductions in air pollution from agriculture. *Science of the Total Environment*, **2018**, 622-623, 1304-1316	10.2	58
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455	Flux estimates of isoprene, methanol and acetone from airborne PTR-MS measurements over the tropical rainforest during the GABRIEL 2005 campaign. *Atmospheric Chemistry and Physics*, **2009**, 9, 4207-4227	6.8	56

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452	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. *Journal of Geophysical Research*, **2003**, 108, n/a-n/a		54
451	Photochemistry of the African troposphere: Influence of biomass-burning emissions. *Journal of Geophysical Research*, **2000**, 105, 14513-14530		54
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448	Estimating the atmospheric concentration of Criegee intermediates and their possible interference in a FAGE-LIF instrument. *Atmospheric Chemistry and Physics*, **2017**, 17, 7807-7826	6.8	53
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446	Aerosol optical properties and large-scale transport of air masses: Observations at a coastal and a semiarid site in the eastern Mediterranean during summer 1998. *Journal of Geophysical Research*, **2001**, 106, 9807-9826		53
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440	Effects of mineral dust on global atmospheric nitrate concentrations. *Atmospheric Chemistry and Physics*, **2016**, 16, 1491-1509	6.8	51
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162	Radiative signature of absorbing aerosol over the Eastern Mediterranean Basin		4
161	Chemistry, transport and dry deposition of trace gases in the boundary layer over the tropical Atlantic Ocean and the Guyanas during the GABRIEL field campaign		4
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100	Intercomparison and evaluation of aerosol microphysical properties among AeroCom global models of a range of complexity		2
99	Model calculated global, regional and megacity premature mortality due to air pollution		2
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