

Johannes Lelieveld

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.

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	Prevalence of SARS-CoV-2 in Pregnant Women Assessed by RT-PCR in Franconia, Germany: First Results of the SCENARIO Study (SARS-CoV-2 prevalence in pregnancy and at birth in Franconia).. <i>Geburtshilfe Und Frauenheilkunde</i> , 2022 , 82, 226-234	2	0
614	Ozone and aerosols over the Tibetan Plateau 2022 , 287-302		0
613	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
612	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
611	Synergistic HNO-HSO-NH upper tropospheric particle formation.. <i>Nature</i> , 2022 , 605, 483-489	50.4	5
610	Evaluation of WRF-Chem model (v3.9.1.1) real-time air quality forecasts over the Eastern Mediterranean. <i>Geoscientific Model Development</i> , 2022 , 15, 4129-4146	6.3	2
609	Fate of the nitrate radical at the summit of a semi-rural mountain site in Germany assessed with direct reactivity measurements. <i>Atmospheric Chemistry and Physics</i> , 2022 , 22, 7051-7069	6.8	0
608	Modification of a conventional photolytic converter for improving aircraft measurements of NO ₂ via chemiluminescence. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 6759-6776	4	3
607	Measurement report: Observation-based formaldehyde production rates and their relation to OH reactivity around the Arabian Peninsula. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 17373-17388	6.8	1
606	Das Exposom charakterisiert die Auswirkungen unserer Umwelt auf Stoffwechsel und Gesundheit. <i>Aktuelle Kardiologie</i> , 2021 , 10, 502-508	0.1	
605	The Palaeoanthropocene – The Beginnings of Anthropogenic Environmental Change (2013). <i>The Anthropocene: Politik - Economics - Society - Science</i> , 2021 , 203-216	0.3	
604	Timely Update of Emission Inventories with the Use of Satellite Data. <i>Springer Proceedings in Complexity</i> , 2021 , 69-74	0.3	
603	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
602	How alkaline compounds control atmospheric aerosol particle acidity. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 14983-15001	6.8	3
601	Formation and dissipation dynamics of the Asian tropopause aerosol layer. <i>Environmental Research Letters</i> , 2021 , 16, 014015	6.2	3
600	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
599	Aerosol Trends during the Dusty Season over Iran. <i>Remote Sensing</i> , 2021 , 13, 1045	5	5

598	Direct radiative forcing of biomass burning aerosols from the extensive Australian wildfires in 2019/2020. <i>Environmental Research Letters</i> , 2021 , 16, 044041	6.2	8
597	Winter AOD trend changes over the Eastern Mediterranean and Middle East region. <i>International Journal of Climatology</i> , 2021 , 41, 5516	3.5	3
596	The Toba supervolcano eruption caused severe tropical stratospheric ozone depletion. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	2
595	Measurement report: In situ observations of deep convection without lightning during the tropical cyclone Florence 2018. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 7933-7945	6.8	1
594	Optimizing Regional Climate Model Output for Hydro-Climate Applications in the Eastern Nile Basin. <i>Earth Systems and Environment</i> , 2021 , 5, 185	7.5	2
593	Heart healthy cities: genetics loads the gun but the environment pulls the trigger. <i>European Heart Journal</i> , 2021 , 42, 2422-2438	9.5	9
592	Reactive nitrogen around the Arabian Peninsula and in the Mediterranean Sea during the 2017 AQABA ship campaign. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 7473-7498	6.8	2
591	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
590	Climate-model-informed deep learning of global soil moisture distribution. <i>Geoscientific Model Development</i> , 2021 , 14, 4429-4441	6.3	0
589	Air pollution declines during COVID-19 lockdowns mitigate the global health burden. <i>Environmental Research</i> , 2021 , 192, 110403	7.9	32
588	Variability of aerosol-cloud interactions induced by different cloud droplet nucleation schemes. <i>Atmospheric Research</i> , 2021 , 250, 105367	5.4	4
587	Environmental risk factors and cardiovascular diseases: a comprehensive review. <i>Cardiovascular Research</i> , 2021 ,	9.9	9
586	Influence of aromatics on tropospheric gas-phase composition. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 2615-2636	6.8	11
585	Cold cloud microphysical process rates in a global chemistry-climate model. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1485-1505	6.8	2
584	Atomic emission detector with gas chromatographic separation and cryogenic pre-concentration (CryoTrap-GC/EAED) for atmospheric trace gas measurements. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 1817-1831	4	2
583	Disease burden and excess mortality from coal-fired power plant emissions in Europe. <i>Environmental Research Letters</i> , 2021 , 16, 045010	6.2	5
582	Business-as-usual will lead to super and ultra-extreme heatwaves in the Middle East and North Africa. <i>Npj Climate and Atmospheric Science</i> , 2021 , 4,	8	16
581	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

580	Iodide CIMS and HNO_3 as NO_3 in the presence of PAN, peroxyacetic acid and ozone. <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 5319-5332	4	5
579	The Unmanned Systems Research Laboratory (USRL): A New Facility for UAV-Based Atmospheric Observations. <i>Atmosphere</i> , 2021 , 12, 1042	2.7	3
578	Shipborne measurements of methane and carbon dioxide in the Middle East and Mediterranean areas and the contribution from oil and gas emissions. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 12443-12462	6.8	2
577	Impact of ozone and inlet design on the quantification of isoprene-derived organic nitrates by thermal dissociation cavity ring-down spectroscopy (TD-CRDS). <i>Atmospheric Measurement Techniques</i> , 2021 , 14, 5501-5519	4	
576	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
575	The Monitoring Nitrous Oxide Sources (MIN2OS) satellite project. <i>Remote Sensing of Environment</i> , 2021 , 266, 112688	13.2	3
574	Revisiting future extreme precipitation trends in the Mediterranean.. <i>Weather and Climate Extremes</i> , 2021 , 34, 100380	6	15
573	Modeling air pollution by atmospheric desert 2021 , 555-581		
572	Measurement report: Photochemical production and loss rates of formaldehyde and ozone across Europe. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 18413-18432	6.8	1
571	Luftverschmutzung und Herz-Kreislauf-Erkrankungen. <i>Aktuelle Kardiologie</i> , 2021 , 10, 510-515	0.1	
570	Guidelines for Modeling and Reporting Health Effects of Climate Change Mitigation Actions. <i>Environmental Health Perspectives</i> , 2020 , 128, 115001	8.4	13
569	Performance of Land Surface Schemes in the WRF Model for Climate Simulations over the MENA-CORDEX Domain. <i>Earth Systems and Environment</i> , 2020 , 4, 647-665	7.5	15
568	Including vegetation dynamics in an atmospheric chemistry-enabled general circulation model: linking LPJ-GUESS (v4.0) with the EMAC modelling system (v2.53). <i>Geoscientific Model Development</i> , 2020 , 13, 1285-1309	6.3	5
567	Evolution of NO_3 reactivity during the oxidation of isoprene 2020 ,		1
566	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
565	Pyruvic acid in the boreal forest: gas-phase mixing ratios and impact on radical chemistry. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 3697-3711	6.8	9
564	Natural sea-salt emissions moderate the climate forcing of anthropogenic nitrate. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 771-786	6.8	6
563	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,	6.3	62

562	Schlechte Luft durch Verkehr, Industrie und Landwirtschaft. <i>Klinikerzt</i> , 2020 , 49, 22-25		0
561	A new marine biogenic emission: methane sulfonamide (MSAM), dimethyl sulfide (DMS), and dimethyl sulfone (DMSO₂) measured in air over the Arabian Sea. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 6081-6094	6.8	9
560	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
559	Weaker cooling by aerosols due to dust-pollution interactions 2020 ,		1
558	Calibration of an airborne HO₂ instrument using the All Pressure Altitude-based Calibrator for HO₂ Experimentation (APACHE). <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 2711-2731	4	4
557	Sensitivity of simulated climate over the MENA region related to different land surface schemes in the WRF model. <i>Theoretical and Applied Climatology</i> , 2020 , 141, 1431-1449	3	5
556	Enhanced growth rate of atmospheric particles from sulfuric acid. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 7359-7372	6.8	21
555	Inappropriate evaluation of methodology and biases by P. Morfeld and T.C. Erren. <i>Cardiovascular Research</i> , 2020 , 116, e102	9.9	1
554	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
553	The Red Sea Deep Water is a potent source of atmospheric ethane and propane. <i>Nature Communications</i> , 2020 , 11, 447	17.4	12
552	Air pollution, the underestimated cardiovascular risk factor. <i>European Heart Journal</i> , 2020 , 41, 904-905	9.5	5
551	A comparison of gridded datasets of precipitation and temperature over the Eastern Nile Basin region. <i>Euro-Mediterranean Journal for Environmental Integration</i> , 2020 , 5, 1	1.7	4
550	Perspective: cardiovascular disease and the Covid-19 pandemic. <i>Basic Research in Cardiology</i> , 2020 , 115, 32	11.8	43
549	Kinetic and mechanistic study of the reaction between methane sulfonamide (CH₃S(O)₂NH₂) and OH. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 2695-2707	6.8	3
548	Reducing Air Pollution: Avoidable Health Burden 2020 , 105-117		
547	Reaction between CH₃C(O)OOH (peracetic acid) and OH in the gas phase: a combined experimental and theoretical study of the kinetics and mechanism. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 13541-13555	6.8	1
546	Evolution of NO₃ reactivity during the oxidation of isoprene. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 10459-10475	6.8	5
545	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

544	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
543	Weaker cooling by aerosols due to dust-pollution interactions. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 15285-15295	6.8	3
542	Measurement of NO ₂ and NO ₃ with a thermal dissociation cavity ring-down spectrometer (TD-CRDS): instrument characterisation and first deployment. <i>Atmospheric Measurement Techniques</i> , 2020 , 13, 5739-5761	4	5
541	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
540	Air quality modelling over the Eastern Mediterranean: Seasonal sensitivity to anthropogenic emissions. <i>Atmospheric Environment</i> , 2020 , 222, 117119	5.3	8
539	Traffic-related environmental risk factors and their impact on oxidative stress and cardiovascular health 2020 , 489-510		1
538	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
537	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
536	Natural gas shortages during the "coal-to-gas" transition in China have caused a large redistribution of air pollution in winter 2017. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 31018-31025	11.5	23
535	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,	4.6	78
534	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
533	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	11.5	300
532	Bias Correction of RCM Precipitation by TIN-Copula Method: A Case Study for Historical and Future Simulations in Cyprus. <i>Climate</i> , 2020 , 8, 85	3.1	3
531	Reduction of environmental pollutants for prevention of cardiovascular disease: it's time to act. <i>European Heart Journal</i> , 2020 , 41, 3989-3997	9.5	21
530	Updated Assessment of Temperature Extremes over the Middle East-North Africa (MENA) Region from Observational and CMIP5 Data. <i>Atmosphere</i> , 2020 , 11, 813	2.7	5
529	Environmental Factors Such as Noise and Air Pollution and Vascular Disease. <i>Antioxidants and Redox Signaling</i> , 2020 , 33, 581-601	8.4	9
528	Predictions of diffusion rates of organic molecules in secondary organic aerosols using the Stokes-Einstein and fractional Stokes-Einstein relations 2019 ,		1
527	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

526	Air pollution, chronic smoking, and mortality. <i>European Heart Journal</i> , 2019 , 40, 3204	9.5	4
525	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
524	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
523	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
522	Laser-induced fluorescence-based detection of atmospheric nitrogen dioxide and comparison of different techniques during the PARADE-2011 field campaign. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 1461-1481	4	6
521	Chemical ionization quadrupole mass spectrometer with an electrical discharge ion source for atmospheric trace gas measurement. <i>Atmospheric Measurement Techniques</i> , 2019 , 12, 1935-1954	4	9
520	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
519	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
518	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
517	Exploring the economy-wide effects of agriculture on air quality and health: Evidence from Europe. <i>Science of the Total Environment</i> , 2019 , 663, 889-900	10.2	29
516	A climate-driven and field data-assimilated population dynamics model of sand flies. <i>Scientific Reports</i> , 2019 , 9, 2469	4.9	7
515	Global modeling of fungal spores with the EMAC chemistryclimate model: uncertainties in emission parametrizations and observations 2019 ,		1
514	Direct radiative effect of dust-pollution interactions. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 7397-7408	6.8	14
513	Contribution of airborne desert dust to air quality and cardiopulmonary disease. <i>European Heart Journal</i> , 2019 , 40, 2377-2378	9.5	2
512	Empirical evidence of a positive climate forcing of aerosols at elevated albedo. <i>Atmospheric Research</i> , 2019 , 229, 269-279	5.4	9
511	Shipborne measurements of total OH reactivity around the Arabian Peninsula and its role in ozone chemistry. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 11501-11523	6.8	22
510	Alkyl nitrates in the boreal forest: formation via the NO ₃ -, OH- and O ₃ -induced oxidation of biogenic volatile organic compounds and ambient lifetimes. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 10391-10403	6.8	16
509	Luftverschmutzung und Herz-Kreislauf-System. <i>Kardiologie</i> , 2019 , 13, 352-359	0.6	1

508	Predictions of diffusion rates of large organic molecules in secondary organic aerosols using the Stokes-Einstein and fractional Stokes-Einstein relations. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 10073-10085	6.8	17
507	Pyruvic acid in the boreal forest: first measurements and impact on radical chemistry 2019 ,		1
506	The "exposome" concept - how environmental risk factors influence cardiovascular health. <i>Acta Biochimica Polonica</i> , 2019 , 66, 269-283	2	20
505	Metrics for the sustainable development goals: renewable energy and transportation. <i>Palgrave Communications</i> , 2019 , 5,	5.3	10
504	Costs and benefits of agricultural ammonia emission abatement options for compliance with European air quality regulations. <i>Environmental Sciences Europe</i> , 2019 , 31,	5	31
503	Evaluation of A Regional Climate Model for the Eastern Nile Basin: Terrestrial and Atmospheric Water Balance. <i>Atmosphere</i> , 2019 , 10, 736	2.7	1
502	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
501	Trapping of HCl and oxidised organic trace gases in growing ice at temperatures relevant to cirrus clouds. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 11939-11951	6.8	5
500	Shipborne measurements of ClNO ₂ in the Mediterranean Sea and around the Arabian Peninsula during summer. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12121-12140	6.8	9
499	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	4.3	54
498	Evaluation of EU air quality standards through modeling and the FAIRMODE benchmarking methodology. <i>Air Quality, Atmosphere and Health</i> , 2019 , 12, 73-86	5.6	12
497	Air quality modelling in the summer over the eastern Mediterranean using WRF-Chem: chemistry and aerosol mechanism intercomparison. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 1555-1571	6.8	33
496	Identification of Tropical-Extratropical Interactions and Extreme Precipitation Events in the Middle East Based On Potential Vorticity and Moisture Transport. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 861-881	4.4	29
495	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
494	Direct measurement of NO ₃ radical reactivity in a boreal forest. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 3799-3815	6.8	31
493	Emission of nitrous acid from soil and biological soil crusts represents an important source of HONO in the remote atmosphere in Cyprus. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 799-813	6.8	36
492	Customized framework of the WRF model for regional climate simulation over the Eastern NILE basin. <i>Theoretical and Applied Climatology</i> , 2018 , 134, 1135-1151	3	7
491	Modelling study of the atmospheric composition over Cyprus. <i>Atmospheric Pollution Research</i> , 2018 , 9, 257-269	4.5	8

490	Intercomparison of boundary layer parameterizations for summer conditions in the eastern Mediterranean island of Cyprus using the WRF - ARW model. <i>Atmospheric Research</i> , 2018 , 208, 45-59	5.4	12
489	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
488	Effects of gaseous and solid constituents of air pollution on endothelial function. <i>European Heart Journal</i> , 2018 , 39, 3543-3550	9.5	126
487	The South Asian monsoon-pollution pump and purifier. <i>Science</i> , 2018 , 361, 270-273	33.3	63
486	Strong sesquiterpene emissions from Amazonian soils. <i>Nature Communications</i> , 2018 , 9, 2226	17.4	35
485	Global tropospheric effects of aromatic chemistry with the SAPRC-11 mechanism implemented in GEOS-Chem 2018 ,		1
484	Uncertainties in estimates of mortality attributable to ambient PM 2.5 in Europe. <i>Environmental Research Letters</i> , 2018 , 13, 064029	6.2	12
483	A 3-D evaluation of the MACC reanalysis dust product over Europe, northern Africa and Middle East using CALIOP/CALIPSO dust satellite observations. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8601-8620	6.8	14
482	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
481	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
480	Effects of Meteorology Nudging in Regional Hydroclimatic Simulations of the Eastern Mediterranean. <i>Atmosphere</i> , 2018 , 9, 470	2.7	1
479	Direct measurements of NO ₂ -reactivity in and above the boundary layer of a mountain-top site: Identification of reactive trace gases and comparison with OH-reactivity 2018 ,		1
478	Direct radiative effect of dust-pollution interactions 2018 ,		1
477	Model simulations of atmospheric methane and their evaluation using AGAGE/NOAA surface- and IAGOS-CARIBIC aircraft observations, 1997-2014 2018 ,		5
476	Oxidation processes in the Eastern Mediterranean atmosphere: Evidence from the Modelling of HO ₂ and Measurements over Cyprus 2018 ,		1
475	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
474	Insights into HO ₂ and RO ₂ chemistry in the boreal forest via measurement of peroxyacetic acid, peroxyacetic nitric anhydride (PAN) and hydrogen peroxide. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13457-13479	6.8	16
473	Accelerating simulations using REDCHEM_v0.0 for atmospheric chemistry mechanism reduction. <i>Geoscientific Model Development</i> , 2018 , 11, 3391-3407	6.3	1

472	Tropospheric OH and stratospheric OH and Cl concentrations determined from CH ₄ , CH ₃ Cl, and SF ₆ measurements. <i>Npj Climate and Atmospheric Science</i> , 2018 , 1,	8	20
471	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
470	Direct measurements of NO ₂ reactivity in and above the boundary layer of a mountaintop site: identification of reactive trace gases and comparison with OH reactivity. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 12045-12059	6.8	15
469	Analysis of European ozone trends in the period 1995–2014. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 5589-5605	6.8	52
468	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
467	Global distribution of particle phase state in atmospheric secondary organic aerosols. <i>Nature Communications</i> , 2017 , 8, 15002	17.4	192
466	The added value of convection permitting simulations of extreme precipitation events over the eastern Mediterranean. <i>Atmospheric Research</i> , 2017 , 191, 20-33	5.4	45
465	A large-scale stochastic spatiotemporal model for Aedes albopictus-borne chikungunya epidemiology. <i>PLoS ONE</i> , 2017 , 12, e0174293	3.7	7
464	Global impact of monocyclic aromatics on tropospheric composition 2017 ,		1
463	An aircraft gas chromatograph–mass spectrometer System for Organic Fast Identification Analysis (SOFIA): design, performance and a case study of Asian monsoon pollution outflow. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 5089-5105	4	12
462	Measurement of ambient NO ₂ reactivity: design, characterization and first deployment of a new instrument. <i>Atmospheric Measurement Techniques</i> , 2017 , 10, 1241-1258	4	12
461	Chemists can help to solve the air-pollution health crisis. <i>Nature</i> , 2017 , 551, 291-293	50.4	61
460	Impact of agricultural emission reductions on fine particulate matter and public health 2017 ,		1
459	Clean air in the Anthropocene. <i>Faraday Discussions</i> , 2017 , 200, 693-703	3.6	26
458	Aerosol physicochemical effects on CCN activation simulated with the chemistry-climate model EMAC. <i>Atmospheric Environment</i> , 2017 , 162, 127-140	5.3	18
457	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
456	Atmospheric chemistry and the biosphere: general discussion. <i>Faraday Discussions</i> , 2017 , 200, 195-228	3.6	1
455	Aerosol Health Effects from Molecular to Global Scales. <i>Environmental Science & Technology</i> , 2017 , 51, 13545-13567	10.3	235

454	Comparative Forecasts of a Local Area Model (WRF) in Summer for Cyprus. <i>Springer Atmospheric Sciences</i> , 2017 , 151-157	0.7	1
453	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	
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408	WRF-Chem simulated surface ozone over South Asia during the pre-monsoon: Effects of emission inventories and chemical mechanisms 2016 ,	3
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