Marianne T. Lund

List of Publications by Year
in descending order

55 papers	3,605 citations	236925 25 h-index	175258 52 g-index
108 all docs	108 docs citations	108 times ranked	4724 citing authors

#	Article	IF	Citations
1	Earlier emergence of a temperature response to mitigation by filtering annual variability. Nature Communications, 2022, 13, 1578.	12.8	4
2	Landâ€“atmosphere interactions in sub-polar and alpine climates in the CORDEX Flagship Pilot Study Land Use and Climate Across Scales (LUCAS) models â€“ Part 2: The role of changing vegetation. Cryosphere, 2022, 16, 1383-1397.	3.9	5
3	Invited perspectives: A research agenda towards disaster risk management pathways in multi-(hazard-)risk assessment. Natural Hazards and Earth System Sciences, 2022, 22, 1487-1497.	3.6	27
4	Landâ€“atmosphere interactions in sub-polar and alpine climates in the CORDEX flagship pilot study Land Use and Climate Across Scales (LUCAS) modelsÂâ€“ PartÂ1: Evaluation of the snow-albedo effect. Cryosphere, 2022, 16, 2403-2419.	3.9	3
5	Reply to: Uncertainty in near-term temperature evolution must not obscure assessments of climate mitigation benefits. Nature Communications, 2022, 13, .	12.8	0
6	The contribution of global aviation to anthropogenic climate forcing for 2000 to 2018. Atmospheric Environment, 2021, 244, 117834.	4.1	491
7	AeroCom phase III multi-model evaluation of the aerosol life cycle and optical properties using ground- and space-based remote sensing as well as surface in situ observations. Atmospheric Chemistry and Physics, 2021, 21, 87-128.	4.9	96
8	Contributions of World Regions to the Global Tropospheric Ozone Burden Change From 1980 to 2010. Geophysical Research Letters, 2021, 48, .	4.0	22
9	Responses of Arctic black carbon and surface temperature to multi-region emission reductions: a Hemispheric Transport of Air Pollution Phase 2 (HTAP2) ensemble modeling study. Atmospheric Chemistry and Physics, 2021, 21, 8637-8654.	4.9	8
10	CO₂-equivalence metrics for surface albedo change based on the radiative forcing concept: a critical review. Atmospheric Chemistry and Physics, 2021, 21, 9887-9907.	4.9	17
11	Aerosol absorption in global models from AeroCom phase III. Atmospheric Chemistry and Physics, 2021, 21, 15929-15947.	4.9	27
12	Competing effects of aerosol reductions and circulation changes for future improvements in Beijing haze. Atmospheric Chemistry and Physics, 2021, 21, 15299-15308.	4.9	3
13	Delayed emergence of a global temperature response after emission mitigation. Nature Communications, 2020, 11, 3261.	12.8	71
14	Dirty air offsets inequality. Nature Climate Change, 2020, 10, 185-186.	18.8	0
15	A global modelâ€“measurement evaluation of particle light scattering coefficients at elevated relative humidity. Atmospheric Chemistry and Physics, 2020, 20, 10231-10258.	4.9	19
16	Accelerated increases in global and Asian summer monsoon precipitation from future aerosol reductions. Atmospheric Chemistry and Physics, 2020, 20, 11955-11977.	4.9	52
17	Cloudy-sky contributions to the direct aerosol effect. Atmospheric Chemistry and Physics, 2020, 20, 8855-8865.	4.9	8
18	A continued role of short-lived climate forcers under the Shared Socioeconomic Pathways. Earth System Dynamics, 2020, 11, 977-993.	7.1	23

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19	Emerging Asian aerosol patterns. Nature Geoscience, 2019, 12, 582-584.	12.9	64
20	How Daily Temperature and Precipitation Distributions Evolve With Global Surface Temperature.. Earth's Future, 2019, 7, 1323-1336.	6.3	13
21	Arctic Amplification Response to Individual Climate Drivers. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6698-6717.	3.3	39
22	Anthropogenic aerosol forcing under the Shared Socioeconomic Pathways. Atmospheric Chemistry and Physics, 2019, 19, 13827-13839.	4.9	43
23	Concentrations and radiative forcing of anthropogenic aerosols from 1750 to 2014 simulated with the OsloÂCTM3 and CEDS emission inventory. Geoscientific Model Development, 2018, 11, 4909-4931.	3.6	35
24	Short Black Carbon lifetime inferred from a global set of aircraft observations. Npj Climate and Atmospheric Science, 2018, 1, .	6.8	57
25	The impact of future emission policies on tropospheric ozone using a parameterised approach. Atmospheric Chemistry and Physics, 2018, 18, 8953-8978.	4.9	47
26	The effects of intercontinental emission sources on European air pollution levels. Atmospheric Chemistry and Physics, 2018, 18, 13655-13672.	4.9	34
27	Climate effects of non-compliant Volkswagen diesel cars. Environmental Research Letters, 2018, 13, 044020.	5.2	10
28	Multi-model study of HTAPÂII on sulfur and nitrogen deposition. Atmospheric Chemistry and Physics, 2018, 18, 6847-6866.	4.9	49
29	HTAP2 multi-model estimates of premature human mortality due to intercontinental transport of air pollution and emission sectors. Atmospheric Chemistry and Physics, 2018, 18, 10497-10520.	4.9	54
30	Inferring Surface Albedo Prediction Error Linked to Forest Structure at High Latitudes. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4910-4925.	3.3	13
31	Population-weighted exposure to PM2.5 pollution in China: An integrated approach. Environment International, 2018, 120, 111-120.	10.0	59
32	Investigation of global particulate nitrate from the AeroCom phaseÂIII experiment. Atmospheric Chemistry and Physics, 2017, 17, 12911-12940.	4.9	99
33	Multi-model simulations of aerosol and ozone radiative forcing due to anthropogenic emission changes during the periodÂ1990â€“2015. Atmospheric Chemistry and Physics, 2017, 17, 2709-2720.	4.9	87
34	Impact of intercontinental pollution transport on North American ozone air pollution: an HTAP phase 2 multi-model study. Atmospheric Chemistry and Physics, 2017, 17, 5721-5750.	4.9	51
35	Sensitivity of black carbon concentrations and climate impact to aging and scavenging in OsloCTM2â€“M7. Atmospheric Chemistry and Physics, 2017, 17, 6003-6022.	4.9	22
36	Emission metrics for quantifying regional climate impacts of aviation. Earth System Dynamics, 2017, 8, 547-563.	7.1	35

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37	Global and regional radiative forcing from 20â€¯% reductions in BC, OC and SO₄ â€“ an HTAP2 multi-model study. Atmospheric Chemistry and Physics, 2016, 16, 13579-13599.	4.9	42
38	Multi-model evaluation of short-lived pollutant distributions over east Asia during summer 2008. Atmospheric Chemistry and Physics, 2016, 16, 10765-10792.	4.9	17
39	Impact of Aviation on Climate: FAAâ€™s Aviation Climate Change Research Initiative (ACCRI) Phase II. Bulletin of the American Meteorological Society, 2016, 97, 561-583.	3.3	93
40	A warmer policy for a colder climate: Can China both reduce poverty and cap carbon emissions?. Science of the Total Environment, 2016, 568, 236-244.	8.0	17
41	Current model capabilities for simulating black carbon and sulfate concentrations in the Arctic atmosphere: a multi-model evaluation using a comprehensive measurement data set. Atmospheric Chemistry and Physics, 2015, 15, 9413-9433.	4.9	145
42	Evaluating the climate and air quality impacts of short-lived pollutants. Atmospheric Chemistry and Physics, 2015, 15, 10529-10566.	4.9	365
43	Climate Impacts of Short-Lived Climate Forcers versus CO‹sub›2‹/sub› from Biodiesel: A Case of the EU on-Road Sector. Environmental Science & Technology, 2014, 48, 14445-14454.	10.0	21
44	Global and regional climate impacts of black carbon and co-emitted species from the on-road diesel sector. Atmospheric Environment, 2014, 98, 50-58.	4.1	28
45	Carbon capture and storage deployment rates: needs and feasibility. Mitigation and Adaptation Strategies for Global Change, 2013, 18, 187-205.	2.1	12
46	Intercomparison of the capabilities of simplified climate models to project the effects of aviation CO2 on climate. Atmospheric Environment, 2013, 75, 321-328.	4.1	12
47	Comparison of Spheroidal Carbonaceous Particle Data with Modelled Atmospheric Black Carbon Concentration and Deposition and Air Mass Sources in Northern Europe, 1850â€“2010. Advances in Meteorology, 2013, 2013, 1-15.	1.6	14
48	Radiative forcing of the direct aerosol effect from AeroCom Phase II simulations. Atmospheric Chemistry and Physics, 2013, 13, 1853-1877.	4.9	779
49	Parameterization of black carbon aging in the OsloCTM2 and implications for regional transport to the Arctic. Atmospheric Chemistry and Physics, 2012, 12, 6999-7014.	4.9	33
50	Global-Mean Temperature Change from Shipping toward 2050: Improved Representation of the Indirect Aerosol Effect in Simple Climate Models. Environmental Science & Technology, 2012, 46, 8868-8877.	10.0	27
51	How much information is lost by using global-mean climate metrics? an example using the transport sector. Climatic Change, 2012, 113, 949-963.	3.6	26
52	Alternative â€œGlobal Warmingâ€•Metrics in Life Cycle Assessment: A Case Study with Existing Transportation Data. Environmental Science & Technology, 2011, 45, 8633-8641.	10.0	88
53	Mitigation of short-lived heating components may lead to unwanted long-term consequences. Atmospheric Environment, 2011, 45, 6103-6106.	4.1	22
54	Global temperature change from the transport sectors: Historical development and future scenarios. Atmospheric Environment, 2009, 43, 6260-6270.	4.1	80

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55	Arctic air pollution: Challenges and opportunities for the next decade. Elementa, 0, 4, 000104.	3.2	53