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	Radiative forcing of the direct aerosol effect from AeroCom Phase II simulations. Atmospheric Chemistry and Physics, 2013, 13, 1853-1877.	4.9	779
2	The contribution of global aviation to anthropogenic climate forcing for 2000 to 2018. Atmospheric Environment, 2021, 244, 117834.	4.1	491
3	Evaluating the climate and air quality impacts of short-lived pollutants. Atmospheric Chemistry and Physics, 2015, 15, 10529-10566.	4.9	365
4	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
5	Investigation of global particulate nitrate from the AeroCom phaseÂIII experiment. Atmospheric Chemistry and Physics, 2017, 17, 12911-12940.	4.9	99
6	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
7	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
8	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
9	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
10	Global temperature change from the transport sectors: Historical development and future scenarios. Atmospheric Environment, 2009, 43, 6260-6270.	4.1	80
11	Delayed emergence of a global temperature response after emission mitigation. Nature Communications, 2020, 11, 3261.	12.8	71
12	Emerging Asian aerosol patterns. Nature Geoscience, 2019, 12, 582-584.	12.9	64
13	Population-weighted exposure to PM2.5 pollution in China: An integrated approach. Environment International, 2018, 120, 111-120.	10.0	59
14	Short Black Carbon lifetime inferred from a global set of aircraft observations. Npj Climate and Atmospheric Science, 2018, 1, .	6.8	57
15	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
16	Arctic air pollution: Challenges and opportunities for the next decade. Elementa, 0, 4, 000104.	3.2	53
17	Accelerated increases in global and Asian summer monsoon precipitation from future aerosol reductions. Atmospheric Chemistry and Physics, 2020, 20, 11955-11977.	4.9	52
18	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

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19	Multi-model study of HTAPÂII on sulfur and nitrogen deposition. Atmospheric Chemistry and Physics, 2018, 18, 6847-6866.	4.9	49
20	The impact of future emission policies on tropospheric ozone using a parameterised approach. Atmospheric Chemistry and Physics, 2018, 18, 8953-8978.	4.9	47
21	Anthropogenic aerosol forcing under the Shared Socioeconomic Pathways. Atmospheric Chemistry and Physics, 2019, 19, 13827-13839.	4.9	43
22	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
23	Arctic Amplification Response to Individual Climate Drivers. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6698-6717.	3.3	39
24	Emission metrics for quantifying regional climate impacts of aviation. Earth System Dynamics, 2017, 8, 547-563.	7.1	35
25	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
26	The effects of intercontinental emission sources on European air pollution levels. Atmospheric Chemistry and Physics, 2018, 18, 13655-13672.	4.9	34
27	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
28	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
29	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
30	Aerosol absorption in global models from AeroCom phase III. Atmospheric Chemistry and Physics, 2021, 21, 15929-15947.	4.9	27
31	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
32	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
33	A continued role of short-lived climate forcers under the Shared Socioeconomic Pathways. Earth System Dynamics, 2020, 11, 977-993.	7.1	23
34	Mitigation of short-lived heating components may lead to unwanted long-term consequences. Atmospheric Environment, 2011, 45, 6103-6106.	4.1	22
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	Contributions of World Regions to the Global Tropospheric Ozone Burden Change From 1980 to 2010. Geophysical Research Letters, 2021, 48, .	4.0	22

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37	Climate Impacts of Short-Lived Climate Forcers versus CO₂ from Biodiesel: A Case of the EU on-Road Sector. Environmental Science & Technology, 2014, 48, 14445-14454.	10.0	21
38	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
39	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
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	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
42	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
43	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
44	How Daily Temperature and Precipitation Distributions Evolve With Global Surface Temperature.. Earth's Future, 2019, 7, 1323-1336.	6.3	13
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	Climate effects of non-compliant Volkswagen diesel cars. Environmental Research Letters, 2018, 13, 044020.	5.2	10
48	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
49	Cloudy-sky contributions to the direct aerosol effect. Atmospheric Chemistry and Physics, 2020, 20, 8855-8865.	4.9	8
50	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
51	Earlier emergence of a temperature response to mitigation by filtering annual variability. Nature Communications, 2022, 13, 1578.	12.8	4
52	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
53	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
54	Dirty air offsets inequality. Nature Climate Change, 2020, 10, 185-186.	18.8	0

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55	Reply to: Uncertainty in near-term temperature evolution must not obscure assessments of climate mitigation benefits. Nature Communications, 2022, 13, .	12.8	0