Ã˜ivind Hodnebrog

List of Publications by Year
in descending order

56 papers	4,249 citations	147726 31 h-index	155592 55 g-index
75 all docs	75 docs citations	75 times ranked	5213 citing authors

#	Article	IF	Citations
1	Frequency of extreme precipitation increases extensively with event rareness under global warming. Scientific Reports, 2019, 9, 16063.	1.6	393
2	Global warming potentials and radiative efficiencies of halocarbons and related compounds: A comprehensive review. Reviews of Geophysics, 2013, 51, 300-378.	9.0	390
3	Evaluating the climate and air quality impacts of short-lived pollutants. Atmospheric Chemistry and Physics, 2015, 15, 10529-10566.	1.9	365
4	The 2015 edition of the GEISA spectroscopic database. Journal of Molecular Spectroscopy, 2016, 327, 31-72.	0.4	311
5	Fast and slow precipitation responses to individual climate forcers: A PDRMIP multimodel study. Geophysical Research Letters, 2016, 43, 2782-2791.	1.5	179
6	A first-of-its-kind multi-model convection permitting ensemble for investigating convective phenomena over Europe and the Mediterranean. Climate Dynamics, 2020, 55, 3-34.	1.7	176
7	Air quality trends in Europe over the past decade: a first multi-model assessment. Atmospheric Chemistry and Physics, 2011, 11, 11657-11678.	1.9	164
8	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.	1.9	145
9	Rapid Adjustments Cause Weak Surface Temperature Response to Increased Black Carbon Concentrations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11462-11481.	1.2	118
10	PDRMIP: A Precipitation Driver and Response Model Intercomparison Projectâ€"Protocol and Preliminary Results. Bulletin of the American Meteorological Society, 2017, 98, 1185-1198.	1.7	116
11	The first multi-model ensemble of regional climate simulations at kilometer-scale resolution, part I: evaluation of precipitation. Climate Dynamics, 2021, 57, 275-302.	1.7	114
12	Understanding Rapid Adjustments to Diverse Forcing Agents. Geophysical Research Letters, 2018, 45, 12023-12031.	1.5	113
13	How shorter black carbon lifetime alters its climate effect. Nature Communications, 2014, 5, 5065.	5.8	108
14	Multi-model simulations of aerosol and ozone radiative forcing due to anthropogenic emission changes during the periodÂ 1990â€"2015. Atmospheric Chemistry and Physics, 2017, 17, 2709-2720.	1.9	87
15	A PDRMIP Multimodel Study on the Impacts of Regional Aerosol Forcings on Global and Regional Precipitation. Journal of Climate, 2018, 31, 4429-4447.	1.2	83
16	Future air quality in Europe: a multi-model assessment of projected exposure to ozone. Atmospheric Chemistry and Physics, 2012, 12, 10613-10630.	1.9	81
17	Local biomass burning is a dominant cause of the observed precipitation reduction in southern Africa. Nature Communications, 2016, 7, 11236.	5.8	75
18	Climate responses to anthropogenic emissions of short-lived climate pollutants. Atmospheric Chemistry and Physics, 2015, 15, 8201-8216.	1.9	69

#	ARTICLE	IF	CITATIONS
19	Drivers of Precipitation Change: An Energetic Understanding. Journal of Climate, 2018, 31, 9641-9657.	1.2	63
20	Updated Global Warming Potentials and Radiative Efficiencies of Halocarbons and Other Weak Atmospheric Absorbers. Reviews of Geophysics, 2020, 58, e2019RG000691.	9.0	60
21	Discrepancy between simulated and observed ethane and propane levels explained by underestimated fossil emissions. Nature Geoscience, 2018, 11, 178-184.	5.4	56
22	Efficacy of Climate Forcings in PDRMIP Models. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12824-12844.	1.2	55
23	Impact of forest fires, biogenic emissions and high temperatures on the elevated Eastern Mediterranean ozone levels during the hot summer of 2007. Atmospheric Chemistry and Physics, 2012, 12, 8727-8750.	1.9	52
24	Gaseous chemistry and aerosol mechanism developments for version 3.5.1 of the online regional model, WRF-Chem. Geoscientific Model Development, 2014, 7, 2557-2579.	1.3	51
25	Aircraft emission mitigation by changing route altitude: A multi-model estimate of aircraft NOx emission impact on O3 photochemistry. Atmospheric Environment, 2014, 95, 468-479.	1.9	46
26	Sensible heat has significantly affected the global hydrological cycle over the historical period. Nature Communications, 2018, 9, 1922.	5.8	44
27	Historical total ozone radiative forcing derived from CMIP6 simulations. Npj Climate and Atmospheric Science, 2020, 3, .	2.6	44
28	Jury is still out on the radiative forcing by black carbon. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5092-3.	3.3	43
29	Dynamical response of Mediterranean precipitation to greenhouse gases and aerosols. Atmospheric Chemistry and Physics, 2018, 18, 8439-8452.	1.9	40
30	The Changing Seasonality of Extreme Daily Precipitation. Geophysical Research Letters, 2018, 45, 11,352.	1.5	37
31	Improvements to the retrieval of tropospheric NO₂ from satellite â€“ stratospheric correction using SCIAMACHY limb/nadir matching and comparison to Oslo CTM2 simulations. Atmospheric Measurement Techniques, 2013, 6, 565-584.	1.2	34
32	Weak hydrological sensitivity to temperature change over land, independent of climate forcing. Npj Climate and Atmospheric Science, 2018, 1, .	2.6	33
33	Lifetimes, direct and indirect radiative forcing, and global warming potentials of ethane (C₂H₆), propane (C₃H₈), and butane (C₄H₁₀). Atmospheric Science Letters, 2018, 19, e804.	0.8	31
34	Intensification of summer precipitation with shorter time-scales in Europe. Environmental Research Letters, 2019, 14, 124050.	2.2	31
35	Direct and indirect impacts of climate change on wheat yield in the Indo-Gangetic plain in India. Journal of Agriculture and Food Research, 2021, 4, 100132.	1.2	31
36	Future impact of non-land based traffic emissions on atmospheric ozone and OH â€“ an optimistic scenario and a possible mitigation strategy. Atmospheric Chemistry and Physics, 2011, 11, 11293-11317.	1.9	30

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37	Climate Penalty for Shifting Shipping to the Arctic. Environmental Science & Technology, 2014, 48, 13273-13279.	4.6	29
38	Water vapour adjustments and responses differ between climate drivers. Atmospheric Chemistry and Physics, 2019, 19, 12887-12899.	1.9	29
39	Does the resolution of megacity emissions impact large scale ozone?. Atmospheric Environment, 2011, 45, 6852-6862.	1.9	27
40	Quantifying the Importance of Rapid Adjustments for Global Precipitation Changes. Geophysical Research Letters, 2018, 45, 11399-11405.	1.5	26
41	Future urban heat island influence on precipitation. Climate Dynamics, 2022, 58, 3393-3403.	1.7	23
42	CH3Cl, CH2Cl2, CHCl3, and CCl4: Infrared spectra, radiative efficiencies, and global warming potentials. Journal of Quantitative Spectroscopy and Radiative Transfer, 2016, 174, 56-64.	1.1	21
43	Extreme wet and dry conditions affected differently by greenhouse gases and aerosols. Npj Climate and Atmospheric Science, 2019, 2, .	2.6	21
44	Comparison of Effective Radiative Forcing Calculations Using Multiple Methods, Drivers, and Models. Journal of Geophysical Research D: Atmospheres, 2019, 124, 4382-4394.	1.2	21
45	Evaluating stomatal ozone fluxes in WRF-Chem: Comparing ozone uptake in Mediterranean ecosystems. Atmospheric Environment, 2016, 143, 237-248.	1.9	20
46	Regional and seasonal radiative forcing by perturbations to aerosol and ozone precursor emissions. Atmospheric Chemistry and Physics, 2016, 16, 13885-13910.	1.9	17
47	Comparison and Evaluation of Statistical Rainfall Disaggregation and High-Resolution Dynamical Downscaling over Complex Terrain. Journal of Hydrometeorology, 2018, 19, 1973-1982.	0.7	17
48	Impact of Coupled NOx/Aerosol Aircraft Emissions on Ozone Photochemistry and Radiative Forcing. Atmosphere, 2015, 6, 751-782.	1.0	16
49	Urbanization in megacities increases the frequency of extreme precipitation events far more than their intensity. Environmental Research Letters, 0, , .	2.2	15
50	Future impact of traffic emissions on atmospheric ozone and OH based on two scenarios. Atmospheric Chemistry and Physics, 2012, 12, 12211-12225.	1.9	13
51	Aircraft-based observations and high-resolution simulations of an Icelandic dust storm. Atmospheric Chemistry and Physics, 2012, 12, 10649-10666.	1.9	10
52	Cloudy-sky contributions to the direct aerosol effect. Atmospheric Chemistry and Physics, 2020, 20, 8855-8865.	1.9	8
53	The effect of rapid adjustments to halocarbons and N2O on radiative forcing. Npj Climate and Atmospheric Science, 2020, 3, .	2.6	7
54	Scientific data from precipitation driver response model intercomparison project. Scientific Data, 2022, 9, 123.	2.4	5

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55	The influence of future non-mitigated road transport emissions on regional ozone exceedences at global scale. Atmospheric Environment, 2014, 89, 633-641.	1.9	4
56	Understanding model diversity in future precipitation projections for South America. Climate Dynamics, 2022, 58, 1329-1347.	1.7	3