Trond Iversen

List of Publications by Year
in descending order

58 papers	8,298 citations	94381 37 h-index	138417 58 g-index
78 all docs	78 docs citations	78 times ranked	7865 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.	1.9	779
2	The Norwegian Earth System Model, NorESM1-M â€“ Part 1: Description and basic evaluation of the physical climate. Geoscientific Model Development, 2013, 6, 687-720.	1.3	725
3	An AeroCom initial assessment â€“ optical properties in aerosol component modules of global models. Atmospheric Chemistry and Physics, 2006, 6, 1815-1834.	1.9	697
4	Radiative forcing by aerosols as derived from the AeroCom present-day and pre-industrial simulations. Atmospheric Chemistry and Physics, 2006, 6, 5225-5246.	1.9	633
5	Evaluation of black carbon estimations in global aerosol models. Atmospheric Chemistry and Physics, 2009, 9, 9001-9026.	1.9	585
6	The AeroCom evaluation and intercomparison of organic aerosol in global models. Atmospheric Chemistry and Physics, 2014, 14, 10845-10895.	1.9	363
7	Evaluation of cloud and water vapor simulations in CMIP5 climate models using NASA â€œAâ€Trainâ€• satellite observations. Journal of Geophysical Research, 2012, 117, .	3.3	316
8	Overview of the Norwegian Earth System Model (NorESM2) and key climate response of CMIP6 DECK, historical, and scenario simulations. Geoscientific Model Development, 2020, 13, 6165-6200.	1.3	280
9	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) â€“ integrating aerosol research from nano to global scales. Atmospheric Chemistry and Physics, 2011, 11, 13061-13143.	1.9	278
10	The effect of harmonized emissions on aerosol properties in global models â€“ an AeroCom experiment. Atmospheric Chemistry and Physics, 2007, 7, 4489-4501.	1.9	228
11	The Norwegian Earth System Model, NorESM1-M â€“ Part 2: Climate response and scenario projections. Geoscientific Model Development, 2013, 6, 389-415.	1.3	226
12	Black carbon vertical profiles strongly affect its radiative forcing uncertainty. Atmospheric Chemistry and Physics, 2013, 13, 2423-2434.	1.9	223
13	Half a degree additional warming, prognosis and projected impacts (HAPPI): background and experimental design. Geoscientific Model Development, 2017, 10, 571-583.	1.3	203
14	Application of the CALIOP layer product to evaluate the vertical distribution of aerosols estimated by global models: AeroCom phase I results. Journal of Geophysical Research, 2012, 117, .	3.3	170
15	Aerosolâ€“climate interactions in the Norwegian Earth System Model â€“ NorESM1-M. Geoscientific Model Development, 2013, 6, 207-244.	1.3	158
16	Modelled black carbon radiative forcing and atmospheric lifetime in AeroCom Phase II constrained by aircraft observations. Atmospheric Chemistry and Physics, 2014, 14, 12465-12477.	1.9	157
17	Amplification of Arctic warming by past air pollution reductions inÂEurope. Nature Geoscience, 2016, 9, 277-281.	5.4	126
18	Constraining cloud droplet number concentration in GCMs suppresses the aerosol indirect effect. Geophysical Research Letters, 2009, 36, .	1.5	125

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19	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
20	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
21	Aerosol-climate interactions in the CAM-Oslo atmospheric GCM and investigation of associated basic shortcomings. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, 60, 459-491.	0.8	97
22	The effect of sea ice loss on sea salt aerosol concentrations and the radiative balance in the Arctic. Atmospheric Chemistry and Physics, 2011, 11, 3459-3477.	1.9	94
23	An AeroCom assessment of black carbon in Arctic snow and sea ice. Atmospheric Chemistry and Physics, 2014, 14, 2399-2417.	1.9	86
24	A synthesis of regional climate change simulations-A Scandinavian perspective. Geophysical Research Letters, 2001, 28, 1003-1006.	1.5	83
25	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
26	What controls the vertical distribution of aerosol? Relationships between process sensitivity in HadGEM3â€"UKCA and inter-model variation from AeroCom Phase II. Atmospheric Chemistry and Physics, 2016, 16, 2221-2241.	1.9	82
27	Evaluation of the aerosol vertical distribution in global aerosol models through comparison against CALIOP measurements: AeroCom phase II results. Journal of Geophysical Research D: Atmospheres, 2016, 121, 7254-7283.	1.2	80
28	Response of the climate system to aerosol direct and indirect forcing: Role of cloud feedbacks. Journal of Geophysical Research, 2005, 110, .	3.3	72
29	A scheme for process-tagged SO4and BC aerosols in NCAR CCM3: Validation and sensitivity to cloud processes. Journal of Geophysical Research, 2002, 107, AAC 4-1.	3.3	68
30	Predicting cloud droplet number concentration in Community Atmosphere Model (CAM)-Oslo. Journal of Geophysical Research, 2006, 111, .	3.3	61
31	Soot microphysical effects on liquid clouds, a multi-model investigation. Atmospheric Chemistry and Physics, 2011, 11, 1051-1064.	1.9	58
32	Aerosols at the poles: an AeroCom Phase II multi-model evaluation. Atmospheric Chemistry and Physics, 2017, 17, 12197-12218.	1.9	58
33	Global direct radiative forcing by process-parameterized aerosol optical properties. Journal of Geophysical Research, 2002, 107, AAC 6-1.	3.3	57
34	Aerosol-cloud-climate interactions in the climate model CAM-Oslo. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, 60, 492-512.	0.8	55
35	Future Response of Temperature and Precipitation to Reduced Aerosol Emissions as Compared with Increased Greenhouse Gas Concentrations. Journal of Climate, 2017, 30, 939-954.	1.2	44
36	A production-tagged aerosol module for Earth system models, OsloAero5.3 â€" extensions and updates for CAM5.3-Oslo. Geoscientific Model Development, 2018, 11, 3945-3982.	1.3	44

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37	Interactions between the atmosphere, cryosphere, and ecosystems at northern high latitudes. Atmospheric Chemistry and Physics, 2019, 19, 2015-2061.	1.9	42
38	Dynamical response of Mediterranean precipitation to greenhouse gases and aerosols. Atmospheric Chemistry and Physics, 2018, 18, 8439-8452.	1.9	40
39	Modeling of the Wegenerâ€"Bergeronâ€"Findeisen processâ€"implications for aerosol indirect effects. Environmental Research Letters, 2008, 3, 045001.	2.2	39
40	Arctic Amplification Response to Individual Climate Drivers. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6698-6717.	1.2	39
41	Strong impacts on aerosol indirect effects from historical oxidant changes. Atmospheric Chemistry and Physics, 2018, 18, 7669-7690.	1.9	34
42	Remote sensing of aerosols in the Arctic for an evaluation of global climate model simulations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 8169-8188.	1.2	31
43	A Standardized Global Climate Model Study Showing Unique Properties for the Climate Response to Black Carbon Aerosols. Journal of Climate, 2015, 28, 2512-2526.	1.2	28
44	Midlatitude atmospheric circulation responses under 1.5 and 2.0â€¯Â°C warming and implications for regional impacts. Earth System Dynamics, 2018, 9, 359-382.	2.7	27
45	Evaluation of aerosol number concentrations in NorESM with improved nucleation parameterization. Atmospheric Chemistry and Physics, 2014, 14, 5127-5152.	1.9	25
46	Climateâ€induced changes in sea salt aerosol number emissions: 1870 to 2100. Journal of Geophysical Research D: Atmospheres, 2013, 118, 670-682.	1.2	24
47	How aerosols and greenhouse gases influence the diurnal temperature range. Atmospheric Chemistry and Physics, 2020, 20, 13467-13480.	1.9	23
48	On the additivity of climate response to anthropogenic aerosols and CO₂, and the enhancement of future global warming by carbonaceous aerosols. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, 60, 513-527.	0.8	22
49	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
50	Correction to â€œA scheme for process-tagged SO4and BC aerosols in NCAR-CCM3: Validation and sensitivity to cloud processesâ€• Journal of Geophysical Research, 2003, 108, .	3.3	16
51	Targeted ensemble prediction for northern Europe and parts of the north Atlantic Ocean. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 53, 35.	0.8	11
52	The offline Lagrangian particle model FLEXPARTâ€"NorESM/CAM (v1): model description and comparisons with the online NorESM transport scheme and with the reference FLEXPART model. Geoscientific Model Development, 2016, 9, 4029-4048.	1.3	11
53	Arctic amplification under global warming of 1.5Âand 2â€‰Â°C in NorESM1-Happi. Earth System Dynamics, 2019, 10, 569-598.	2.7	10
54	Modelling intercontinental transport of atmospheric sulphur in the northern hemisphere. Tellus, Series B: Chemical and Physical Meteorology, 1998, 50, 331-352.	0.8	8

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55	Comment on â€œA long term decrease in arctic haze at Barrow, Alaskaâ€•by B.A. Bodhaine and E.G. Button. Geophysical Research Letters, 1995, 22, 739-740.	1.5	5
56	Optimal atmospheric forcing perturbations for the cold-ocean warm-land pattern. Tellus, Series A: Dynamic Meteorology and Oceanography, 2008, 60, 528-546.	0.8	5
57	The Role of Cumulus Parameterisation in Global and Regional Sulphur Transport. , 2004, , 225-234.		5
58	Scientific data from precipitation driver response model intercomparison project. Scientific Data, 2022, 9, 123.	2.4	5