Gunnar Myhre

List of Publications by Year
in descending order

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212	23,909	9234 74	11288 136
papers	citations	h-index	g-index

331	331	331	15832
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Analysis and quantification of the diversities of aerosol life cycles within AeroCom. Atmospheric Chemistry and Physics, 2006, 6, 1777-1813.	1.9	1,202
2	Global dust model intercomparison in AeroCom phase I. Atmospheric Chemistry and Physics, 2011, 11, 7781-7816.	1.9	839
3	Anthropogenic and Natural Radiative Forcing. , 2014, , 659-740.		786
4	Radiative forcing of the direct aerosol effect from AeroCom Phase II simulations. Atmospheric Chemistry and Physics, 2013, 13, 1853-1877.	1.9	779
5	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
6	New estimates of radiative forcing due to well mixed greenhouse gases. Geophysical Research Letters, 1998, 25, 2715-2718.	1.5	653
7	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
8	Evaluation of black carbon estimations in global aerosol models. Atmospheric Chemistry and Physics, 2009, 9, 9001-9026.	1.9	585
9	Radiative forcing of carbon dioxide, methane, and nitrous oxide: A significant revision of the methane radiative forcing. Geophysical Research Letters, 2016, 43, 12,614.	1.5	529
10	Bounding Global Aerosol Radiative Forcing of Climate Change. Reviews of Geophysics, 2020, 58, e2019RG000660.	9.0	424
11	Radiative forcing in the ACCMIP historical and future climate simulations. Atmospheric Chemistry and Physics, 2013, 13, 2939-2974.	1.9	395
12	Frequency of extreme precipitation increases extensively with event rareness under global warming. Scientific Reports, 2019, 9, 16063.	1.6	393
13	Global warming potentials and radiative efficiencies of halocarbons and related compounds: A comprehensive review. Reviews of Geophysics, 2013, 51, 300-378.	9.0	390
14	Evaluating the climate and air quality impacts of short-lived pollutants. Atmospheric Chemistry and Physics, 2015, 15, 10529-10566.	1.9	365
15	The AeroCom evaluation and intercomparison of organic aerosol in global models. Atmospheric Chemistry and Physics, 2014, 14, 10845-10895.	1.9	363
16	Tropospheric ozone changes, radiative forcing and attribution to emissions in the Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). Atmospheric Chemistry and Physics, 2013, 13, 3063-3085.	1.9	361
17	Very Strong Atmospheric Methane Growth in the 4ÂYears 2014â€“2017: Implications for the Paris Agreement. Global Biogeochemical Cycles, 2019, 33, 318-342.	1.9	353
18	Twenty-five years of continuous sulphur dioxide emission reduction in Europe. Atmospheric Chemistry and Physics, 2007, 7, 3663-3681.	1.9	326

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19	Radiative properties and direct radiative effect of Saharan dust measured by the C-130 aircraft during SHADE: 1. Solar spectrum. Journal of Geophysical Research, 2003, 108, .	3.3	320
20	Direct human influence of irrigation on atmospheric water vapour and climate. Climate Dynamics, 2004, 22, 597-603.	1.7	274
21	Energy budget constraints on climate response. Nature Geoscience, 2013, 6, 415-416.	5.4	270
22	Climate forcing from the transport sectors. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 454-458.	3.3	269
23	Consistency Between Satellite-Derived and Modeled Estimates of the Direct Aerosol Effect. Science, 2009, 325, 187-190.	6.0	260
24	Aviation radiative forcing in 2000: An update on IPCC (1999). Meteorologische Zeitschrift, 2005, 14, 555-561.	0.5	251
25	Atmospheric composition change: Climateâ€"Chemistry interactions. Atmospheric Environment, 2009, 43, 5138-5192.	1.9	243
26	Comparison of the radiative properties and direct radiative effect of aerosols from a global aerosol model and remote sensing data over ocean. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 115-129.	0.8	235
27	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
28	Black carbon vertical profiles strongly affect its radiative forcing uncertainty. Atmospheric Chemistry and Physics, 2013, 13, 2423-2434.	1.9	223
29	AerChemMIP: quantifying the effects of chemistry and aerosols in CMIP6. Geoscientific Model Development, 2017, 10, 585-607.	1.3	202
30	Strong constraints on aerosolâ€"cloud interactions from volcanic eruptions. Nature, 2017, 546, 485-491.	13.7	191
31	Overview of the Dust and Biomassâ€burning Experiment and African Monsoon Multidisciplinary Analysis Special Observing Periodâ€0. Journal of Geophysical Research, 2008, 113, .	3.3	188
32	Modelled radiative forcing of the direct aerosol effect with multi-observation evaluation. Atmospheric Chemistry and Physics, 2009, 9, 1365-1392.	1.9	187
33	Fast and slow precipitation responses to individual climate forcers: A PDRMIP multimodel study. Geophysical Research Letters, 2016, 43, 2782-2791.	1.5	179
34	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
35	Inferring absorbing organic carbon content from AERONET data. Atmospheric Chemistry and Physics, 2011, 11, 215-225.	1.9	175
36	Future methane, hydroxyl, and their uncertainties: key climate and emission parameters for future predictions. Atmospheric Chemistry and Physics, 2013, 13, 285-302.	1.9	171

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37	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
38	Global and regional trends of atmospheric sulfur. Scientific Reports, 2019, 9, 953.	1.6	166
39	Measurement and modeling of the Saharan dust radiative impact: Overview of the Saharan Dust Experiment (SHADE). Journal of Geophysical Research, 2003, 108, .	3.3	161
40	Recommendations for diagnosing effective radiative forcing from climate models for CMIP6. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12,460.	1.2	161
41	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
42	Radiative forcing in the 21st century due to ozone changes in the troposphere and the lower stratosphere. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	153
43	Effective radiative forcing and adjustments in CMIP6 models. Atmospheric Chemistry and Physics, 2020, 20, 9591-9618.	1.9	149
44	The impact of traffic emissions on atmospheric ozone and OH: results from QUANTIFY. Atmospheric Chemistry and Physics, 2009, 9, 3113-3136.	1.9	143
45	Host model uncertainties in aerosol radiative forcing estimates: results from the AeroCom Prescribed intercomparison study. Atmospheric Chemistry and Physics, 2013, 13, 3245-3270.	1.9	143
46	Radiative forcing since preindustrial times due to ozone change in the troposphere and the lower stratosphere. Atmospheric Chemistry and Physics, 2006, 6, 575-599.	1.9	140
47	Anthropogenic radiative forcing time series from pre-industrial times until 2010. Atmospheric Chemistry and Physics, 2011, 11, 11827-11857.	1.9	137
48	Aerosol-cloud interaction inferred from MODIS satellite data and global aerosol models. Atmospheric Chemistry and Physics, 2007, 7, 3081-3101.	1.9	133
49	Model simulations of dust sources and transport in the global atmosphere: Effects of soil erodibility and wind speed variability. Journal of Geophysical Research, 2005, 110, .	3.3	126
50	Evaluation of preindustrial to present-day black carbon and its albedo forcing from Atmospheric Chemistry and Climate Model Intercomparison Project (ACCMIP). Atmospheric Chemistry and Physics, 2013, 13, 2607-2634.	1.9	125
51	Modeling the radiative impact of mineral dust during the Saharan Dust Experiment (SHADE) campaign. Journal of Geophysical Research, 2003, 108, .	3.3	124
52	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
53	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
54	Understanding Rapid Adjustments to Diverse Forcing Agents. Geophysical Research Letters, 2018, 45, 12023-12031.	1.5	113

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55	Uncertainties in Radiative Forcing due to Surface Albedo Changes Caused by Land-Use Changes. Journal of Climate, 2003, 16, 1511-1524.	1.2	111
56	Global sensitivity experiments of the radiative forcing due to mineral aerosols. Journal of Geophysical Research, 2001, 106, 18193-18204.	3.3	110
57	How shorter black carbon lifetime alters its climate effect. Nature Communications, 2014, 5, 5065.	5.8	108
58	Secondary organic aerosol in the global aerosol â€" chemical transport model Oslo CTM2. Atmospheric Chemistry and Physics, 2007, 7, 5675-5694.	1.9	105
59	Effects of anthropogenic emissions on tropospheric ozone and its radiative forcing. Journal of Geophysical Research, 1997, 102, 28101-28126.	3.3	104
60	Vertical dependence of black carbon, sulphate and biomass burning aerosol radiative forcing. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	104
61	Black carbon in the atmosphere and snow, from pre-industrial times until present. Atmospheric Chemistry and Physics, 2011, 11, 6809-6836.	1.9	104
62	Abatement of Greenhouse Gases: Does Location Matter?. Climatic Change, 2006, 74, 377-411.	1.7	103
63	Aerosol Absorption: Progress Towards Global and Regional Constraints. Current Climate Change Reports, 2018, 4, 65-83.	2.8	103
64	Investigation of global particulate nitrate from the AeroCom phaseÂIII experiment. Atmospheric Chemistry and Physics, 2017, 17, 12911-12940.	1.9	99
65	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.	1.9	96
66	Atmospheric degradation and global warming potentials of three perfluoroalkenes. Atmospheric Environment, 2001, 35, 4113-4123.	1.9	94
67	Intercomparison of shortwave radiative transfer schemes in global aerosol modeling: results from the AeroCom Radiative Transfer Experiment. Atmospheric Chemistry and Physics, 2013, 13, 2347-2379.	1.9	94
68	Modeling the Annual Cycle of Sea Salt in the Global 3D Model Oslo CTM2: Concentrations, Fluxes, and Radiative Impact. Journal of Climate, 2002, 15, 1717-1730.	1.2	93
69	On the tradeoff of the solar and thermal infrared radiative impact of contrails. Geophysical Research Letters, 2001, 28, 3119-3122.	1.5	90
70	Intercomparison of Satellite Retrieved Aerosol Optical Depth over the Ocean. Journals of the Atmospheric Sciences, 2004, 61, 499-513.	0.6	90
71	Radiative forcing due to changes in ozone and methane caused by the transport sector. Atmospheric Environment, 2011, 45, 387-394.	1.9	87
72	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.	1.9	87

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73	Estimation of the direct radiative forcing due to sulfate and soot aerosols. Tellus, Series B: Chemical and Physical Meteorology, 2022, 50, 463.	0.8	85
74	Biomass burning aerosols in most climate models are too absorbing. Nature Communications, 2021, 12, 277.	5.8	84
75	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
76	Intercomparison of satellite retrieved aerosol optical depth over ocean during the period September 1997 to December 2000. Atmospheric Chemistry and Physics, 2005, 5, 1697-1719.	1.9	82
77	Human Impact on Direct and Diffuse Solar Radiation during the Industrial Era. Journal of Climate, 2007, 20, 4874-4883.	1.2	81
78	Historical evolution of radiative forcing of climate. Atmospheric Environment, 2001, 35, 2361-2373.	1.9	80
79	Cosmic rays, cloud condensation nuclei and clouds â€" a reassessment using MODIS data. Atmospheric Chemistry and Physics, 2008, 8, 7373-7387.	1.9	80
80	Global temperature change from the transport sectors: Historical development and future scenarios. Atmospheric Environment, 2009, 43, 6260-6270.	1.9	80
81	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
82	Direct radiative effect of aerosols emitted by transport: from road, shipping and aviation. Atmospheric Chemistry and Physics, 2010, 10, 4477-4489.	1.9	78
83	Bayesian estimation of climate sensitivity based on a simple climate model fitted to observations of hemispheric temperatures and global ocean heat content. Environmetrics, 2012, 23, 253-271.	0.6	78
84	Evaluation of radiation scheme performance within chemistry climate models. Journal of Geophysical Research, 2011, 116, .	3.3	77
85	Local biomass burning is a dominant cause of the observed precipitation reduction in southern Africa. Nature Communications, 2016, 7, 11236.	5.8	75
86	Anthropogenic influence on SOA and the resulting radiative forcing. Atmospheric Chemistry and Physics, 2009, 9, 2715-2728.	1.9	74
87	Extensive release of methane from Arctic seabed west of Svalbard during summer 2014 does not influence the atmosphere. Geophysical Research Letters, 2016, 43, 4624-4631.	1.5	74
88	Modeling the solar radiative impact of aerosols from biomass burning during the Southern African Regional Science Initiative (SAFARI-2000) experiment. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	73
89	Is there a trend in cirrus cloud cover due to aircraft traffic?. Atmospheric Chemistry and Physics, 2005, 5, 2155-2162.	1.9	72
90	Radiative forcing due to anthropogenic vegetation change based on MODIS surface albedo data. Geophysical Research Letters, 2005, 32, .	1.5	72

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91	Climate responses to anthropogenic emissions of short-lived climate pollutants. Atmospheric Chemistry and Physics, 2015, 15, 8201-8216.	1.9	69
92	Role of spatial and temporal variations in the computation of radiative forcing and GWP. Journal of Geophysical Research, 1997, 102, 11181-11200.	3.3	68
93	Modelling of nitrate and ammonium-containing aerosols in presence of sea salt. Atmospheric Chemistry and Physics, 2006, 6, 4809-4821.	1.9	67
94	Atmospheric methane evolution the last 40 years. Atmospheric Chemistry and Physics, 2016, 16, 3099-3126.	1.9	67
95	Estimation of the direct radiative forcing due to sulfate and soot aerosols. Tellus, Series B: Chemical and Physical Meteorology, 1998, 50, 463-477.	0.8	66
96	Effective radiative forcing from emissions of reactive gases and aerosols â€“ a multi-model comparison. Atmospheric Chemistry and Physics, 2021, 21, 853-874.	1.9	65
97	Short-lived climate forcers from current shipping and petroleum activities in the Arctic. Atmospheric Chemistry and Physics, 2012, 12, 1979-1993.	1.9	64
98	Emerging Asian aerosol patterns. Nature Geoscience, 2019, 12, 582-584.	5.4	64
99	Intercomparison of radiative forcing calculations of stratospheric water vapour and contrails. Meteorologische Zeitschrift, 2009, 18, 585-596.	0.5	63
100	Drivers of Precipitation Change: An Energetic Understanding. Journal of Climate, 2018, 31, 9641-9657.	1.2	63
101	Evaluation of ACCMIP outgoing longwave radiation from tropospheric ozone using TES satellite observations. Atmospheric Chemistry and Physics, 2013, 13, 4057-4072.	1.9	61
102	Costs and global impacts of black carbon abatement strategies. Tellus, Series B: Chemical and Physical Meteorology, 2022, 61, 625.	0.8	60
103	Updated Global Warming Potentials and Radiative Efficiencies of Halocarbons and Other Weak Atmospheric Absorbers. Reviews of Geophysics, 2020, 58, e2019RG000691.	9.0	60
104	Climate response to externally mixed black carbon as a function of altitude. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2913-2927.	1.2	59
105	Aerosol singleâ€scattering albedo over the global oceans: Comparing PARASOL retrievals with AERONET, OMI, and AeroCom models estimates. Journal of Geophysical Research D: Atmospheres, 2015, 120, 9814-9836.	1.2	58
106	Aerosols at the poles: an AeroCom Phase II multi-model evaluation. Atmospheric Chemistry and Physics, 2017, 17, 12197-12218.	1.9	58
107	Discrepancy between simulated and observed ethane and propane levels explained by underestimated fossil emissions. Nature Geoscience, 2018, 11, 178-184.	5.4	56
108	Strong atmospheric chemistry feedback to climate warming from Arctic methane emissions. Global Biogeochemical Cycles, 2011, 25, n/a-n/a.	1.9	55

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109	Hydrological sensitivity to greenhouse gases and aerosols in a global climate model. Geophysical Research Letters, 2013, 40, 1432-1438.	1.5	55
110	Efficacy of Climate Forcings in PDRMIP Models. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12824-12844.	1.2	55
111	Radiative forcing due to stratospheric water vapour from CH4oxidation. Geophysical Research Letters, 2007, 34, .	1.5	53
112	Radiative Forcing of Climate: The Historical Evolution of the Radiative Forcing Concept, the Forcing Agents and their Quantification, and Applications. Meteorological Monographs, 2019, 59, 14.1-14.101.	5.0	52
113	Atmospheric gas-phase degradation and global warming potentials of 2-fluoroethanol, 2,2-difluoroethanol, and 2,2,2-trifluoroethanol. Atmospheric Environment, 2004, 38, 6725-6735.	1.9	51
114	Ocean temperature forcing by aerosols across the Atlantic tropical cyclone development region. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	51
115	The HNO₃ forming branch of the HO₂ + NO reaction: pre-industrial-to-present trends in atmospheric species and radiative forcings. Atmospheric Chemistry and Physics, 2011, 11, 8929-8943.	1.9	51
116	A lower and more constrained estimate of climate sensitivity using updated observations and detailed radiative forcing time series. Earth System Dynamics, 2014, 5, 139-175.	2.7	51
117	Uncertainties in the Radiative Forcing Due to Sulfate Aerosols. Journals of the Atmospheric Sciences, 2004, 61, 485-498.	0.6	48
118	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
119	Observational Evidence of Increasing Global Radiative Forcing. Geophysical Research Letters, 2021, 48, e2020GL091585.	1.5	45
120	Anthropogenic land cover changes in a GCM with surface albedo changes based on MODIS data. International Journal of Climatology, 2010, 30, 2105-2117.	1.5	44
121	Sensible heat has significantly affected the global hydrological cycle over the historical period. Nature Communications, 2018, 9, 1922.	5.8	44
122	Historical total ozone radiative forcing derived from CMIP6 simulations. Npj Climate and Atmospheric Science, 2020, 3, .	2.6	44
123	Impacts of the Large Increase in International Ship Traffic 2000â^'2007 on Tropospheric Ozone and Methane. Environmental Science & Technology, 2010, 44, 2482-2489.	4.6	43
124	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
125	Anthropogenic aerosol forcing under the Shared Socioeconomic Pathways. Atmospheric Chemistry and Physics, 2019, 19, 13827-13839.	1.9	43
126	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.	1.9	42

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127	Time evolution of tropospheric ozone and its radiative forcing. Journal of Geophysical Research, 2000, 105, 8915-8930.	3.3	41
128	Regional aerosol optical properties and radiative impact of the extreme smoke event in the European Arctic in spring 2006. Atmospheric Chemistry and Physics, 2007, 7, 5899-5915.	1.9	40
129	Dynamical response of Mediterranean precipitation to greenhouse gases and aerosols. Atmospheric Chemistry and Physics, 2018, 18, 8439-8452.	1.9	40
130	Radiative effect of surface albedo change from biomass burning. Geophysical Research Letters, 2005, 32, .	1.5	39
131	Arctic Amplification Response to Individual Climate Drivers. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6698-6717.	1.2	39
132	Declining uncertainty in transient climate response as CO2 forcing dominates future climateÂchange. Nature Geoscience, 2015, 8, 181-185.	5.4	38
133	Evaluation of climate model aerosol trends with ground-based observations over the last 2Âdecades â€“ an AeroCom and CMIP6 analysis. Atmospheric Chemistry and Physics, 2020, 20, 13355-13378.	1.9	38
134	The Changing Seasonality of Extreme Daily Precipitation. Geophysical Research Letters, 2018, 45, 11,352.	1.5	37
135	Combined observational and modeling based study of the aerosol indirect effect. Atmospheric Chemistry and Physics, 2006, 6, 3583-3601.	1.9	35
136	Environmental impacts of shipping in 2030 with a particular focus on the Arctic region. Atmospheric Chemistry and Physics, 2013, 13, 1941-1955.	1.9	35
137	Carbon Dioxide Physiological Forcing Dominates Projected Eastern Amazonian Drying. Geophysical Research Letters, 2018, 45, 2815-2825.	1.5	35
138	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.	1.3	35
139	Modeling of the solar radiative impact of biomass burning aerosols during the Dust and Biomassâ€burning Experiment (DABEX). Journal of Geophysical Research, 2008, 113, .	3.3	34
140	Weak hydrological sensitivity to temperature change over land, independent of climate forcing. Npj Climate and Atmospheric Science, 2018, 1, .	2.6	33
141	Reducing the aerosol forcing uncertainty using observational constraints on warm rain processes. Science Advances, 2020, 6, eaaz6433.	4.7	33
142	Influence of observed diurnal cycles of aerosol optical depth on aerosol direct radiative effect. Atmospheric Chemistry and Physics, 2013, 13, 7895-7901.	1.9	32
143	Slow and fast responses of mean and extreme precipitation to different forcing in CMIP5 simulations. Geophysical Research Letters, 2017, 44, 6383-6390.	1.5	32
144	The radiative effect of the anthropogenic influence on the stratospheric sulfate aerosol layer. Tellus, Series B: Chemical and Physical Meteorology, 2004, 56, 294-299.	0.8	31

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145	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
146	Intensification of summer precipitation with shorter time-scales in Europe. Environmental Research Letters, 2019, 14, 124050.	2.2	31
147	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
148	Trend analysis of O3and CO in the period 1980-1996: A three-dimensional model study. Journal of Geophysical Research, 2000, 105, 28907-28933.	3.3	29
149	Role of spatial and temporal variations in the computation of radiative forcing due to sulphate aerosols: A regional study. Quarterly Journal of the Royal Meteorological Society, 2002, 128, 973-989.	1.0	29
150	Resolution of the uncertainties in the radiative forcing of HFC-134a. Journal of Quantitative Spectroscopy and Radiative Transfer, 2005, 93, 447-460.	1.1	29
151	Reducing CO₂ from shipping â€“ do non-CO₂ effects matter?. Atmospheric Chemistry and Physics, 2013, 13, 4183-4201.	1.9	29
152	Climate Penalty for Shifting Shipping to the Arctic. Environmental Science & Technology, 2014, 48, 13273-13279.	4.6	29
153	Standard climate models radiation codes underestimate black carbon radiative forcing. Atmospheric Chemistry and Physics, 2015, 15, 2883-2888.	1.9	29
154	Water vapour adjustments and responses differ between climate drivers. Atmospheric Chemistry and Physics, 2019, 19, 12887-12899.	1.9	29
155	A fast method for updating global fossil fuel carbon dioxide emissions. Environmental Research Letters, 2009, 4, 034012.	2.2	27
156	Aerosol absorption in global models from AeroCom phase III. Atmospheric Chemistry and Physics, 2021, 21, 15929-15947.	1.9	27
157	Radiative forcing from household fuel burning in Asiaâ˜†. Atmospheric Environment, 2009, 43, 5674-5681.	1.9	26
158	Quantifying the Importance of Rapid Adjustments for Global Precipitation Changes. Geophysical Research Letters, 2018, 45, 11399-11405.	1.5	26
159	The Spectral Nature of Stratospheric Temperature Adjustment and its Application to Halocarbon Radiative Forcing. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001951.	1.3	26
160	Infrared absorption cross section, radiative forcing, and GWP of four hydrofluoro(poly)ethers. Atmospheric Environment, 1999, 33, 4447-4458.	1.9	25
161	Updated radiative forcing estimates of four halocarbons. Journal of Geophysical Research, 2004, 109, .	3.3	25
162	Energy Budget Constraints on the Time History of Aerosol Forcing and Climate Sensitivity. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033622.	1.2	25

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163	Radiative forcing due to changes in tropospheric ozone in the period 1980 to 1996. Journal of Geophysical Research, 2000, 105, 28935-28942.	3.3	24
164	A machine learning examination of hydroxyl radical differences among model simulations for CCMI-1. Atmospheric Chemistry and Physics, 2020, 20, 1341-1361.	1.9	24
165	Comparison of aerosol optical properties above clouds between POLDER and AeroCom models over the South East Atlantic Ocean during the fire season. Geophysical Research Letters, 2016, 43, 3991-4000.	1.5	23
166	How aerosols and greenhouse gases influence the diurnal temperature range. Atmospheric Chemistry and Physics, 2020, 20, 13467-13480.	1.9	23
167	Future urban heat island influence on precipitation. Climate Dynamics, 2022, 58, 3393-3403.	1.7	23
168	Mitigation of short-lived heating components may lead to unwanted long-term consequences. Atmospheric Environment, 2011, 45, 6103-6106.	1.9	22
169	Radiative forcing of climate change from the Copernicus reanalysis of atmospheric composition. Earth System Science Data, 2020, 12, 1649-1677.	3.7	22
170	Sulphate trends in Europe: are we able to model the recent observed decrease. Tellus, Series B: Chemical and Physical Meteorology, 2007, 59, 773-786.	0.8	21
171	Climate sensitivity estimates â€“ sensitivity to radiative forcing time series and observational data. Earth System Dynamics, 2018, 9, 879-894.	2.7	21
172	Extreme wet and dry conditions affected differently by greenhouse gases and aerosols. Npj Climate and Atmospheric Science, 2019, 2, .	2.6	21
173	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
174	Line-by-line calculations of thermal infrared radiation representative for global condition: CFC-12 as an example. Journal of Quantitative Spectroscopy and Radiative Transfer, 2006, 97, 317-331.	1.1	20
175	Upward adjustment needed for aerosol radiative forcing uncertainty. Nature Climate Change, 2014, 4, 230-232.	8.1	19
176	A global modelâ€“measurement evaluation of particle light scattering coefficients at elevated relative humidity. Atmospheric Chemistry and Physics, 2020, 20, 10231-10258.	1.9	19
177	Spatial Representativeness Error in the Groundâ€Level Observation Networks for Black Carbon Radiation Absorption. Geophysical Research Letters, 2018, 45, 2106-2114.	1.5	18
178	Corrigendum to "Evaluation of black carbon estimations in global aerosol models" published in Atmos. Chem. Phys., 9, 9001-9026, 2009. Atmospheric Chemistry and Physics, 2010, 10, 79-81.	1.9	17
179	Multi-model evaluation of short-lived pollutant distributions over east Asia during summer 2008. Atmospheric Chemistry and Physics, 2016, 16, 10765-10792.	1.9	17
180	Regional and seasonal radiative forcing by perturbations to aerosol and ozone precursor emissions. Atmospheric Chemistry and Physics, 2016, 16, 13885-13910.	1.9	17

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