

P M Forster

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

228
papers

20,116
citations

72
h-index

138
g-index

251
ext. papers

24,136
ext. citations

8.4
avg, IF

6.88
L-index

#	Paper	IF	Citations
228	Bounding the role of black carbon in the climate system: A scientific assessment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 5380-5552	4.4	3330
227	Aviation and global climate change in the 21st century. <i>Atmospheric Environment</i> , 2009 , 43, 3520-3537	5.3	654
226	Large contribution of natural aerosols to uncertainty in indirect forcing. <i>Nature</i> , 2013 , 503, 67-71	50.4	614
225	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020 , 12, 3269-3340	10.5	533
224	Anthropogenic and Natural Radiative Forcing 659-740		472
223	Clouds and Aerosols 571-658		436
222	Aerosol mass spectrometer constraint on the global secondary organic aerosol budget. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 12109-12136	6.8	349
221	Emission budgets and pathways consistent with limiting warming to 1.5 °C. <i>Nature Geoscience</i> , 2017 , 10, 741-747	18.3	320
220	The semi-direct aerosol effect: Impact of absorbing aerosols on marine stratocumulus. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2004 , 130, 1407-1422	6.4	289
219	Evaluation of Climate Models 741-866		264
218	Evaluating adjusted forcing and model spread for historical and future scenarios in the CMIP5 generation of climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 1139-1150	4.4	264
217	Stratospheric water vapour changes as a possible contributor to observed stratospheric cooling. <i>Geophysical Research Letters</i> , 1999 , 26, 3309-3312	4.9	260
216	Radiative forcing and temperature trends from stratospheric ozone changes. <i>Journal of Geophysical Research</i> , 1997 , 102, 10841-10855		253
215	Assessing the climate impact of trends in stratospheric water vapor. <i>Geophysical Research Letters</i> , 2002 , 29, 10-1-10-4	4.9	240
214	Decreases in stratospheric water vapor after 2001: Links to changes in the tropical tropopause and the Brewer-Dobson circulation. <i>Journal of Geophysical Research</i> , 2006 , 111,		230
213	Energy budget constraints on climate response. <i>Nature Geoscience</i> , 2013 , 6, 415-416	18.3	228
212	Precipitation, radiative forcing and global temperature change. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	226

211	A Climatology of the Tropical Tropopause Layer.. <i>Journal of the Meteorological Society of Japan</i> , 2002 , 80, 911-924	2.8	215
210	Contributions of Different Cloud Types to Feedbacks and Rapid Adjustments in CMIP5*. <i>Journal of Climate</i> , 2013 , 26, 5007-5027	4.4	209
209	An Assessment of Earth's Climate Sensitivity Using Multiple Lines of Evidence. <i>Reviews of Geophysics</i> , 2020 , 58, e2019RG000678	23.1	209
208	Chemistry and the Linkages between Air Quality and Climate Change. <i>Chemical Reviews</i> , 2015 , 115, 3856-3871	6.1	205
207	Impact of uncertainties in atmospheric mixing on simulated UTLS composition and related radiative effects. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		204
206	Current and future global climate impacts resulting from COVID-19. <i>Nature Climate Change</i> , 2020 , 10, 913-919	21.4	201
205	Adjustments in the Forcing-Feedback Framework for Understanding Climate Change. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 217-228	6.1	198
204	Characteristics of biochars from crop residues: potential for carbon sequestration and soil amendment. <i>Journal of Environmental Management</i> , 2014 , 146, 189-197	7.9	187
203	A Surface Energy Perspective on Climate Change. <i>Journal of Climate</i> , 2009 , 22, 2557-2570	4.4	186
202	Radiative forcing by well-mixed greenhouse gases: Estimates from climate models in the Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report (AR4). <i>Journal of Geophysical Research</i> , 2006 , 111,		183
201	Aplasics born without hands mirror the goal of hand actions with their feet. <i>Current Biology</i> , 2007 , 17, 1235-40	6.3	167
200	Bounding Global Aerosol Radiative Forcing of Climate Change. <i>Reviews of Geophysics</i> , 2020 , 58, e2019RG000660	20.6	165
199	Global cloud condensation nuclei influenced by carbonaceous combustion aerosol. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 9067-9087	6.8	164
198	Half a degree additional warming, prognosis and projected impacts (HAPPI): background and experimental design. <i>Geoscientific Model Development</i> , 2017 , 10, 571-583	6.3	162
197	A comparison of model-simulated trends in stratospheric temperatures. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003 , 129, 1565-1588	6.4	162
196	The contribution of global aviation to anthropogenic climate forcing for 2000 to 2018. <i>Atmospheric Environment</i> , 2021 , 244, 117834	5.3	160
195	An observationally based energy balance for the Earth since 1950. <i>Journal of Geophysical Research</i> , 2009 , 114,		159
194	Transient climate response estimated from radiative forcing and observed temperature change. <i>Journal of Geophysical Research</i> , 2008 , 113,		152

193	The direct and indirect radiative effects of biogenic secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 447-470	6.8	146
192	Typologies of crop-drought vulnerability: an empirical analysis of the socio-economic factors that influence the sensitivity and resilience to drought of three major food crops in China (1961-2001). <i>Environmental Science and Policy</i> , 2009 , 12, 438-452	6.2	142
191	Global analysis of photovoltaic energy output enhanced by phase change material cooling. <i>Applied Energy</i> , 2014 , 126, 21-28	10.7	138
190	Radiation balance of the tropical tropopause layer. <i>Journal of Geophysical Research</i> , 2004 , 109,		138
189	Estimating and tracking the remaining carbon budget for stringent climate targets. <i>Nature</i> , 2019 , 571, 335-342	50.4	136
188	The Climate Sensitivity and Its Components Diagnosed from Earth Radiation Budget Data. <i>Journal of Climate</i> , 2006 , 19, 39-52	4.4	130
187	Forcing, feedback and internal variability in global temperature trends. <i>Nature</i> , 2015 , 517, 565-70	50.4	128
186	Natural aerosol direct and indirect radiative effects. <i>Geophysical Research Letters</i> , 2013 , 40, 3297-3301	4.9	127
185	Climate Forcings and Climate Sensitivities Diagnosed from Coupled Climate Model Integrations. <i>Journal of Climate</i> , 2006 , 19, 6181-6194	4.4	127
184	Climate change impacts on future photovoltaic and concentrated solar power energy output. <i>Energy and Environmental Science</i> , 2011 , 4, 3101	35.4	126
183	Recommendations for diagnosing effective radiative forcing from climate models for CMIP6. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 12,460-12,475	4.4	122
182	The Radiative Forcing Model Intercomparison Project (RFMIP): experimental protocol for CMIP6. <i>Geoscientific Model Development</i> , 2016 , 9, 3447-3460	6.3	120
181	A Strategy for Process-Oriented Validation of Coupled Chemistry-Climate Models. <i>Bulletin of the American Meteorological Society</i> , 2005 , 86, 1117-1134	6.1	118
180	Fast and slow precipitation responses to individual climate forcings: A PDRMIP multimodel study. <i>Geophysical Research Letters</i> , 2016 , 43, 2782-2791	4.9	118
179	The effect of human activity on radiative forcing of climate change: a review of recent developments. <i>Global and Planetary Change</i> , 1999 , 20, 205-225	4.2	116
178	New use of global warming potentials to compare cumulative and short-lived climate pollutants. <i>Nature Climate Change</i> , 2016 , 6, 773-776	21.4	104
177	CO2 forcing induces semi-direct effects with consequences for climate feedback interpretations. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	103
176	An examination of climate sensitivity for idealised climate change experiments in an intermediate general circulation model. <i>Climate Dynamics</i> , 2000 , 16, 833-849	4.2	103

175	A real-time Global Warming Index. <i>Scientific Reports</i> , 2017 , 7, 15417	4.9	101
174	Importance of tropospheric volcanic aerosol for indirect radiative forcing of climate. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 7321-7339	6.8	101
173	Rapid adjustments cause weak surface temperature response to increased black carbon concentrations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , Volume 122, 11462-11481	4.4	100
172	Quantifying components of aerosol-cloud-radiation interactions in climate models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 7599-7615	4.4	98
171	Observations of a "weekend effect" in diurnal temperature range. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 11225-30	11.5	98
170	Climate Impacts From a Removal of Anthropogenic Aerosol Emissions. <i>Geophysical Research Letters</i> , 2018 , 45, 1020-1029	4.9	94
169	The Extratropical Tropopause Inversion Layer: Global Observations with GPS Data, and a Radiative Forcing Mechanism. <i>Journals of the Atmospheric Sciences</i> , 2007 , 64, 4489-4496	2.1	92
168	The impact of residential combustion emissions on atmospheric aerosol, human health, and climate. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 873-905	6.8	91
167	Spatial Patterns of Modeled Climate Feedback and Contributions to Temperature Response and Polar Amplification. <i>Journal of Climate</i> , 2011 , 24, 3575-3592	4.4	87
166	PDRMIP: A Precipitation Driver and Response Model Intercomparison Project, Protocol and preliminary results. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 1185-1198	6.1	84
165	Inference of Climate Sensitivity from Analysis of Earth's Energy Budget. <i>Annual Review of Earth and Planetary Sciences</i> , 2016 , 44, 85-106	15.3	84
164	Selective environmental stress from sulphur emitted by continental flood basalt eruptions. <i>Nature Geoscience</i> , 2016 , 9, 77-82	18.3	82
163	Stratospheric variability and trends in models used for the IPCC AR4. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 5369-5380	6.8	80
162	Correlation between ferroelectric polarization and sense of helical spin order in multiferroic MnWO ₄ . <i>Physical Review B</i> , 2008 , 77,	3.3	77
161	Current fossil fuel infrastructure does not yet commit us to 1.5 °C warming. <i>Nature Communications</i> , 2019 , 10, 101	17.4	75
160	FAIR v1.3: a simple emissions-based impulse response and carbon cycle model. <i>Geoscientific Model Development</i> , 2018 , 11, 2273-2297	6.3	75
159	Understanding Rapid Adjustments to Diverse Forcing Agents. <i>Geophysical Research Letters</i> , 2018 , 45, 12023-12031	4.9	73
158	Horizontal transport affecting trace gas seasonality in the Tropical Tropopause Layer (TTL). <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		72

157	Impact of an improved shortwave radiation scheme in the MAECHAM5 General Circulation Model. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 2503-2515	6.8	70
156	The importance of the diurnal and annual cycle of air traffic for contrail radiative forcing. <i>Nature</i> , 2006 , 441, 864-7	50.4	70
155	Evaluation of radiation scheme performance within chemistry climate models. <i>Journal of Geophysical Research</i> , 2011 , 116,		69
154	Accounting for Changing Temperature Patterns Increases Historical Estimates of Climate Sensitivity. <i>Geophysical Research Letters</i> , 2018 , 45, 8490-8499	4.9	66
153	Effective radiative forcing and adjustments in CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9591-9618	6.8	66
152	The socioeconomics of food crop production and climate change vulnerability: a global scale quantitative analysis of how grain crops are sensitive to drought. <i>Food Security</i> , 2012 , 4, 163-179	6.7	63
151	Effects of ozone cooling in the tropical lower stratosphere and upper troposphere. <i>Geophysical Research Letters</i> , 2007 , 34, n/a-n/a	4.9	63
150	Impact of Aviation on Climate: FAAB Aviation Climate Change Research Initiative (ACCRI) Phase II. <i>Bulletin of the American Meteorological Society</i> , 2016 , 97, 561-583	6.1	62
149	It is premature to include non-CO2 effects of aviation in emission trading schemes. <i>Atmospheric Environment</i> , 2006 , 40, 1117-1121	5.3	62
148	Quantifying the water vapour feedback associated with post-Pinatubo global cooling. <i>Climate Dynamics</i> , 2004 , 23, 207-214	4.2	61
147	On aspects of the concept of radiative forcing. <i>Climate Dynamics</i> , 1997 , 13, 547-560	4.2	60
146	Aerosol climate feedback due to decadal increases in Southern Hemisphere wind speeds. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	59
145	Multi-model simulations of aerosol and ozone radiative forcing due to anthropogenic emission changes during the period 1990-2015. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 2709-2720	6.8	55
144	Impact on short-lived climate forcers increases projected warming due to deforestation. <i>Nature Communications</i> , 2018 , 9, 157	17.4	54
143	Rethinking climate engineering categorization in the context of climate change mitigation and adaptation. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2014 , 5, 23-35	8.4	54
142	Understanding the Rapid Precipitation Response to CO2 and Aerosol Forcing on a Regional Scale*. <i>Journal of Climate</i> , 2016 , 29, 583-594	4.4	54
141	An energetic perspective on hydrological cycle changes in the Geoengineering Model Intercomparison Project. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 13,087-13,102	4.4	53
140	A topography of climate change research. <i>Nature Climate Change</i> , 2020 , 10, 118-123	21.4	52

139	A case study of the radiative forcing of persistent contrails evolving into contrail-induced cirrus. <i>Journal of Geophysical Research</i> , 2009 , 114,		52
138	Modelled and observed changes in aerosols and surface solar radiation over Europe between 1960 and 2009. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9477-9500	6.8	51
137	Parameterization of contrails in the UK Met Office Climate Model. <i>Journal of Geophysical Research</i> , 2010 , 115,		51
136	Local biomass burning is a dominant cause of the observed precipitation reduction in southern Africa. <i>Nature Communications</i> , 2016 , 7, 11236	17.4	51
135	Intercomparison of radiative forcing calculations of stratospheric water vapour and contrails. <i>Meteorologische Zeitschrift</i> , 2009 , 18, 585-596	3.1	50
134	Volcanic Radiative Forcing From 1979 to 2015. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 12491-12508	4.4	50
133	A PDRMIP multi-model study on the impacts of regional aerosol forcings on global and regional precipitation. <i>Journal of Climate</i> , 2018 , 31, 4429-4447	4.4	49
132	Cloud Adjustment and its Role in CO ₂ Radiative Forcing and Climate Sensitivity: A Review. <i>Surveys in Geophysics</i> , 2012 , 33, 619-635	7.6	49
131	A regional and global analysis of carbon dioxide physiological forcing and its impact on climate. <i>Climate Dynamics</i> , 2011 , 36, 783-792	4.2	49
130	Implications of possible interpretations of 'greenhouse gas balance' in the Paris Agreement. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2018 , 376,	3	47
129	Changes in global-mean precipitation in response to warming, greenhouse gas forcing and black carbon. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	47
128	The impact of diurnal variations of air traffic on contrail radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 3153-3162	6.8	46
127	Contrail Microphysics. <i>Bulletin of the American Meteorological Society</i> , 2010 , 91, 465-472	6.1	44
126	Modeling Ultraviolet Radiation at the Earth's Surface. Part I: The Sensitivity of Ultraviolet Irradiances to Atmospheric Changes. <i>Journal of Applied Meteorology and Climatology</i> , 1995 , 34, 2412-2425		42
125	An overview of the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 13,103-13,107	4.4	40
124	The transient response of global-mean precipitation to increasing carbon dioxide levels. <i>Environmental Research Letters</i> , 2010 , 5, 025212	6.2	40
123	Adaptation planning and the use of climate change projections in local government in England and Germany. <i>Regional Environmental Change</i> , 2017 , 17, 425-435	4.3	39
122	The Role Of Halocarbons In The Climate Change Of The Troposphere And Stratosphere. <i>Climatic Change</i> , 2005 , 71, 249-266	4.5	38

121	Small global-mean cooling due to volcanic radiative forcing. <i>Climate Dynamics</i> , 2016 , 47, 3979-3991	4.2	37
120	Drivers of Precipitation Change: An Energetic Understanding. <i>Journal of Climate</i> , 2018 , 31, 9641-9657	4.4	37
119	Estimating Carbon Budgets for Ambitious Climate Targets. <i>Current Climate Change Reports</i> , 2017 , 3, 69-77		36
118	A comparison of temperature and precipitation responses to different Earth radiation management geoengineering schemes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 9352-9373	4.4	36
117	The annual cycle in lower stratospheric temperatures revisited. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 3701-3711	6.8	36
116	Efficacy of Climate Forcings in PDRMIP Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 12824-12844	4.4	34
115	Model structure in observational constraints on transient climate response. <i>Climatic Change</i> , 2015 , 131, 199-211	4.5	33
114	Decline of Arctic sea ice: Evaluation and weighting of CMIP5 projections. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 546-554	4.4	31
113	Dynamical response of Mediterranean precipitation to greenhouse gases and aerosols. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8439-8452	6.8	31
112	Determination of the atmospheric lifetime and global warming potential of sulfur hexafluoride using a three-dimensional model. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 883-898	6.8	30
111	Selective inactivation of viruses in the presence of human platelets: UV sensitization with psoralen derivatives. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1994 , 91, 5552-6	11.5	30
110	The impact of European legislative and technology measures to reduce air pollutants on air quality, human health and climate. <i>Environmental Research Letters</i> , 2016 , 11, 024010	6.2	30
109	Declining uncertainty in transient climate response as CO2 forcing dominates future climate change. <i>Nature Geoscience</i> , 2015 , 8, 181-185	18.3	29
108	Tailoring the visual communication of climate projections for local adaptation practitioners in Germany and the UK. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2015 , 373,	3	29
107	Sea spray geoengineering experiments in the geoengineering model intercomparison project (GeoMIP): Experimental design and preliminary results. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,175-11,186	4.4	29
106	Further estimates of radiative forcing due to tropospheric ozone changes. <i>Geophysical Research Letters</i> , 1996 , 23, 3321-3324	4.9	29
105	Evaluation of In Situ Rainwater Harvesting as an Adaptation Strategy to Climate Change for Maize Production in Rainfed Africa. <i>Water Resources Management</i> , 2015 , 29, 4803-4816	3.7	28
104	Impact of gas-to-particle partitioning approaches on the simulated radiative effects of biogenic secondary organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 12989-13001	6.8	28

103	European intercomparison of ultraviolet spectroradiometers. <i>Environmental Technology (United Kingdom)</i> , 1993 , 14, 25-43	2.6	28
102	An Estimate of Equilibrium Climate Sensitivity From Interannual Variability. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 8634-8645	4.4	27
101	Carbon dioxide physiological forcing dominates projected Eastern Amazonian drying. <i>Geophysical Research Letters</i> , 2018 , 45, 2815-2825	4.9	26
100	Coupled chemistry climate model simulations of stratospheric temperatures and their trends for the recent past. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	26
99	Resolution of the uncertainties in the radiative forcing of HFC-134a. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2005 , 93, 447-460	2.1	26
98	Sensible heat has significantly affected the global hydrological cycle over the historical period. <i>Nature Communications</i> , 2018 , 9, 1922	17.4	26
97	Estimating the climate impact of linear contrails using the UK Met Office climate model. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	25
96	Assessing the controllability of Arctic sea ice extent by sulfate aerosol geoengineering. <i>Geophysical Research Letters</i> , 2015 , 42, 1223-1231	4.9	24
95	Extending water vapor trend observations over Boulder into the tropopause region: Trend uncertainties and resulting radiative forcing. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11269-11284	4.4	24
94	Climate impact of stratospheric ozone recovery. <i>Geophysical Research Letters</i> , 2013 , 40, 2796-2800	4.9	24
93	A Model-Derived Global Climatology of UV Irradiation at the Earth's Surface. <i>Photochemistry and Photobiology</i> , 1999 , 69, 193	3.6	24
92	Reduced migration under climate change: evidence from Malawi using an aspirations and capabilities framework. <i>Climate and Development</i> , 2017 , 9, 298-312	4.4	22
91	Slow and fast responses of mean and extreme precipitation to different forcing in CMIP5 simulations. <i>Geophysical Research Letters</i> , 2017 , 44, 6383-6390	4.9	22
90	Satellite constraint on the tropospheric ozone radiative effect. <i>Geophysical Research Letters</i> , 2015 , 42, 5074-5081	4.9	22
89	Climate Impacts of COVID-19 Induced Emission Changes. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL011805	4.9	20
88	Arctic Amplification Response to Individual Climate Drivers. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 6698-6717	4.4	21
87	Weak hydrological sensitivity to temperature change over land, independent of climate forcing. <i>Npj Climate and Atmospheric Science</i> , 2018 , 1,	8	21
86	Comparison of surface albedo feedback in climate models and observations. <i>Geophysical Research Letters</i> , 2014 , 41, 1717-1723	4.9	21

85	On the Role of Radiative Processes in Stratosphere-Troposphere Coupling. <i>Journal of Climate</i> , 2009 , 22, 4154-4161	4.4	21
84	An all-sky radiative transfer method to predict optimal tilt and azimuth angle of a solar collector. <i>Solar Energy</i> , 2016 , 123, 88-101	6.8	20
83	Impact of El Niño Southern Oscillation on the interannual variability of methane and tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 8669-8686	6.8	20
82	An observationally based constraint on the water-vapor feedback. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 12,435-12,443	4.4	20
81	Using a migration systems approach to understand the link between climate change and urbanisation in Malawi. <i>Applied Geography</i> , 2015 , 63, 244-252	4.4	19
80	Issues and Uncertainties Affecting Metrics For Aviation Impacts on Climate. <i>Bulletin of the American Meteorological Society</i> , 2010 , 91, 491-496	6.1	19
79	Effect of tropopause height changes on the calculation of ozone trends and their radiative forcing. <i>Journal of Geophysical Research</i> , 2001 , 106, 12241-12251		19
78	Aerosol mass spectrometer constraint on the global secondary organic aerosol budget		19
77	The Climate Response to Emissions Reductions Due to COVID-19: Initial Results From CovidMIP. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091883	4.9	19
76	An Empirical Study of Geographic and Seasonal Variations in Diurnal Temperature Range. <i>Journal of Climate</i> , 2010 , 23, 3205-3221	4.4	18
75	Radiative forcing due to stratospheric ozone changes 1979-1997, using updated trend estimates. <i>Journal of Geophysical Research</i> , 1999 , 104, 24395-24399		18
74	Opportunities and challenges in using remaining carbon budgets to guide climate policy. <i>Nature Geoscience</i> , 2020 , 13, 769-779	18.3	18
73	Water vapour adjustments and responses differ between climate drivers. <i>Atmospheric Chemistry and Physics</i> , 2019 , 19, 12887-12899	6.8	18
72	Effective radiative forcing from emissions of reactive gases and aerosols in a multi-model comparison. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 853-874	6.8	18
71	Modeling Ultraviolet Radiation at the Earth's Surface. Part II: Model and Instrument Comparison. <i>Journal of Applied Meteorology and Climatology</i> , 1995 , 34, 2426-2439		17
70	Quantifying the Importance of Rapid Adjustments for Global Precipitation Changes. <i>Geophysical Research Letters</i> , 2018 , 45, 11399-11405	4.9	17
69	Reduced efficacy of marine cloud brightening geoengineering due to in-plume aerosol coagulation: parameterization and global implications. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 10385-10396	6.8	16
68	Radiative Forcing of Climate Change. <i>Space Science Reviews</i> , 2000 , 94, 363-373	7.5	16

67	A LABORATORY INVESTIGATION OF TWO ULTRAVIOLET SPECTRORADIOMETERS. <i>Photochemistry and Photobiology</i> , 1994 , 60, 84-90	3.6	16
66	Testing broadband radiation schemes for their ability to calculate the radiative forcing and temperature response to stratospheric water vapour and ozone changes. <i>Meteorologische Zeitschrift</i> , 2001 , 10, 387-393	3.1	16
65	Observational Evidence of Increasing Global Radiative Forcing. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL091585	4.9	16
64	Intensification of summer precipitation with shorter time-scales in Europe. <i>Environmental Research Letters</i> , 2019 , 14, 124050	6.2	16
63	Sensitivity of Historical Climate Simulations to Uncertain Aerosol Forcing. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085806	4.9	15
62	Comparison of Effective Radiative Forcing Calculations Using Multiple Methods, Drivers, and Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 4382-4394	4.4	14
61	The communication of physical science uncertainty in European National Adaptation Strategies. <i>Climatic Change</i> , 2015 , 132, 143-155	4.5	14
60	A balance between radiative forcing and climate feedback in the modeled 20th century temperature response. <i>Journal of Geophysical Research</i> , 2011 , 116,		14
59	New Generation of Climate Models Track Recent Unprecedented Changes in Earth's Radiation Budget Observed by CERES. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086705	4.9	14
58	An intensified hydrological cycle in the simulation of geoengineering by cirrus cloud thinning using ice crystal fall speed changes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 6822-6840	4.4	13
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