

Olivier Boucher

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300 papers	29,434 citations	82 h-index	168 g-index
407 ext. papers	33,899 ext. citations	7.3 avg, IF	6.86 L-index

#	Paper	IF	Citations
300	A satellite view of aerosols in the climate system. <i>Nature</i> , 2002 , 419, 215-23	50.4	1594
299	Estimates of the direct and indirect radiative forcing due to tropospheric aerosols: A review. <i>Reviews of Geophysics</i> , 2000 , 38, 513-543	23.1	1314
298	Analysis and quantification of the diversities of aerosol life cycles within AeroCom. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 1777-1813	6.8	991
297	The aerosol-climate model ECHAM5-HAM. <i>Atmospheric Chemistry and Physics</i> , 2005 , 5, 1125-1156	6.8	839
296	The Joint UK Land Environment Simulator (JULES), model description [Part 1: Energy and water fluxes. <i>Geoscientific Model Development</i> , 2011 , 4, 677-699	6.3	784
295	Emissions of primary aerosol and precursor gases in the years 2000 and 1750 prescribed data-sets for AeroCom. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 4321-4344	6.8	765
294	Impact of changes in diffuse radiation on the global land carbon sink. <i>Nature</i> , 2009 , 458, 1014-7	50.4	689
293	Human-induced nitrogen-phosphorus imbalances alter natural and managed ecosystems across the globe. <i>Nature Communications</i> , 2013 , 4, 2934	17.4	679
292	Creation of the WATCH Forcing Data and Its Use to Assess Global and Regional Reference Crop Evaporation over Land during the Twentieth Century. <i>Journal of Hydrometeorology</i> , 2011 , 12, 823-848	3.7	675
291	Global dust model intercomparison in AeroCom phase I. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 7781-7816	6.8	662
290	The Joint UK Land Environment Simulator (JULES), model description [Part 2: Carbon fluxes and vegetation dynamics. <i>Geoscientific Model Development</i> , 2011 , 4, 701-722	6.3	631
289	A review of measurement-based assessments of the aerosol direct radiative effect and forcing. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 613-666	6.8	628
288	Detection of a direct carbon dioxide effect in continental river runoff records. <i>Nature</i> , 2006 , 439, 835-8	50.4	628
287	An AeroCom initial assessment [Optical properties in aerosol component modules of global models. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 1815-1834	6.8	575
286	Radiative forcing by aerosols as derived from the AeroCom present-day and pre-industrial simulations. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 5225-5246	6.8	561
285	Evaluation of black carbon estimations in global aerosol models. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 9001-9026	6.8	510
284	Projected increase in continental runoff due to plant responses to increasing carbon dioxide. <i>Nature</i> , 2007 , 448, 1037-41	50.4	486

283	A review of natural aerosol interactions and feedbacks within the Earth system. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1701-1737	6.8	409
282	Aerosol analysis and forecast in the European Centre for Medium-Range Weather Forecasts Integrated Forecast System: 2. Data assimilation. <i>Journal of Geophysical Research</i> , 2009 , 114,		394
281	Aerosol indirect effects in general circulation model intercomparison and evaluation with satellite data. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8697-8717	6.8	356
280	Global estimate of aerosol direct radiative forcing from satellite measurements. <i>Nature</i> , 2005 , 438, 1138-1141	5.4	352
279	Aerosol forcing in the Climate Model Intercomparison Project (CMIP5) simulations by HadGEM2-ES and the role of ammonium nitrate. <i>Journal of Geophysical Research</i> , 2011 , 116,		310
278	Aerosol analysis and forecast in the European Centre for Medium-Range Weather Forecasts Integrated Forecast System: Forward modeling. <i>Journal of Geophysical Research</i> , 2009 , 114,		285
277	Atmospheric science. Climate forcing by aerosol--a hazy picture. <i>Science</i> , 2003 , 300, 1103-4	33.3	271
276	Evaluating the climate and air quality impacts of short-lived pollutants. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 10529-10566	6.8	261
275	The Geoengineering Model Intercomparison Project (GeoMIP). <i>Atmospheric Science Letters</i> , 2011 , 12, 162-167	2.4	259
274	Direct human influence of irrigation on atmospheric water vapour and climate. <i>Climate Dynamics</i> , 2004 , 22, 597-603	4.2	240
273	General overview: European Integrated project on Aerosol Cloud Climate and Air Quality interactions (EUCAARI) Integrating aerosol research from nano to global scales. <i>Atmospheric Chemistry and Physics</i> , 2011 , 11, 13061-13143	6.8	231
272	Energy budget constraints on climate response. <i>Nature Geoscience</i> , 2013 , 6, 415-416	18.3	228
271	Precipitation, radiative forcing and global temperature change. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	226
270	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1995 , 47, 281-300	3.3	226
269	Satellite-based estimate of the direct and indirect aerosol climate forcing. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		220
268	Aerosol anthropogenic component estimated from satellite data. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	220
267	TOWARD A MONITORING AND FORECASTING SYSTEM FOR ATMOSPHERIC COMPOSITION. <i>Bulletin of the American Meteorological Society</i> , 2008 , 89, 1147-1164	6.1	218
266	Emissions from open biomass burning in India: Integrating the inventory approach with high-resolution Moderate Resolution Imaging Spectroradiometer (MODIS) active-fire and land cover data. <i>Global Biogeochemical Cycles</i> , 2006 , 20, n/a-n/a	5.9	214

265	Aerosol absorption and radiative forcing. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 5237-5261	6.8	211
264	Comparison of the radiative properties and direct radiative effect of aerosols from a global aerosol model and remote sensing data over ocean. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007 , 59, 115-129	3.3	208
263	The effect of harmonized emissions on aerosol properties in global models in an AeroCom experiment. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 4489-4501	6.8	205
262	Near-real-time monitoring of global CO emissions reveals the effects of the COVID-19 pandemic. <i>Nature Communications</i> , 2020 , 11, 5172	17.4	204
261	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
260	Climate model response from the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 8320-8332	4.4	195
259	Presentation and Evaluation of the IPSL-CM6A-LR Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS002010	7.1	188
258	Model intercomparison of indirect aerosol effects. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 3391-3405	6.8	185
257	General circulation model assessment of the sensitivity of direct climate forcing by anthropogenic sulfate aerosols to aerosol size and chemistry. <i>Journal of Geophysical Research</i> , 1995 , 100, 26117		184
256	Bounding Global Aerosol Radiative Forcing of Climate Change. <i>Reviews of Geophysics</i> , 2020 , 58, e2019RG000660	10.0	183
255	Estimates of aerosol radiative forcing from the MACC re-analysis. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2045-2062	6.8	163
254	The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 11,036-11,058	4.4	161
253	Constraining the total aerosol indirect effect in the LMDZ and ECHAM4 GCMs using MODIS satellite data. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 947-955	6.8	158
252	Possible role of wetlands, permafrost, and methane hydrates in the methane cycle under future climate change: A review. <i>Reviews of Geophysics</i> , 2010 , 48,	23.1	157
251	Significant contribution of combustion-related emissions to the atmospheric phosphorus budget. <i>Nature Geoscience</i> , 2015 , 8, 48-54	18.3	151
250	The scavenging processes controlling the seasonal cycle in Arctic sulphate and black carbon aerosol. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 6775-6798	6.8	150
249	The sulfate-CCN-cloud albedo effect. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1995 , 47, 281-300	3.0	142
248	The indirect global warming potential and global temperature change potential due to methane oxidation. <i>Environmental Research Letters</i> , 2009 , 4, 044007	6.2	141

247	Climate trade-off between black carbon and carbon dioxide emissions. <i>Energy Policy</i> , 2008 , 36, 193-200	7.2	140
246	Strong constraints on aerosol-cloud interactions from volcanic eruptions. <i>Nature</i> , 2017 , 546, 485-491	50.4	133
245	Estimates of global multicomponent aerosol optical depth and direct radiative perturbation in the Laboratoire de Météorologie Dynamique general circulation model. <i>Journal of Geophysical Research</i> , 2005 , 110,		129
244	Exposure to ambient black carbon derived from a unique inventory and high-resolution model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2459-63	11.5	122
243	AerChemMIP: quantifying the effects of chemistry and aerosols in CMIP6. <i>Geoscientific Model Development</i> , 2017 , 10, 585-607	6.3	119
242	An A-Train Strategy for Quantifying Direct Climate Forcing by Anthropogenic Aerosols. <i>Bulletin of the American Meteorological Society</i> , 2005 , 86, 1795-1810	6.1	119
241	Seasonal and interannual variability in absorbing aerosols over India derived from TOMS: Relationship to regional meteorology and emissions. <i>Atmospheric Environment</i> , 2006 , 40, 1909-1921	5.3	117
240	Aerosol direct radiative effects over the northwest Atlantic, northwest Pacific, and North Indian Oceans: estimates based on in-situ chemical and optical measurements and chemical transport modeling. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 1657-1732	6.8	115
239	Host model uncertainties in aerosol radiative forcing estimates: results from the AeroCom Prescribed intercomparison study. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3245-3270	6.8	113
238	The impact of abrupt suspension of solar radiation management (termination effect) in experiment G2 of the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 9743-9752	4.4	113
237	Solar irradiance reduction to counteract radiative forcing from a quadrupling of CO ₂ : climate responses simulated by four earth system models. <i>Earth System Dynamics</i> , 2012 , 3, 63-78	4.8	113
236	Observations of the eruption of the Sarychev volcano and simulations using the HadGEM2 climate model. <i>Journal of Geophysical Research</i> , 2010 , 115,		109
235	Carbon concentration and carbon climate feedbacks in CMIP6 models and their comparison to CMIP5 models. <i>Biogeosciences</i> , 2020 , 17, 4173-4222	4.6	105
234	Intercomparison of models representing direct shortwave radiative forcing by sulfate aerosols. <i>Journal of Geophysical Research</i> , 1998 , 103, 16979-16998		102
233	Climate impacts of geoengineering marine stratocumulus clouds. <i>Journal of Geophysical Research</i> , 2009 , 114,		101
232	Ice-free glacial northern Asia due to dust deposition on snow. <i>Climate Dynamics</i> , 2006 , 27, 613-625	4.2	101
231	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
230	History of sulfate aerosol radiative forcings. <i>Geophysical Research Letters</i> , 2002 , 29, 22-1-22-4	4.9	100

229	DMS atmospheric concentrations and sulphate aerosol indirect radiative forcing: a sensitivity study to the DMS source representation and oxidation. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 49-65	6.8	98
228	Global forest carbon uptake due to nitrogen and phosphorus deposition from 1850 to 2100. <i>Global Change Biology</i> , 2017 , 23, 4854-4872	11.4	95
227	Aerosol forcing, climate response and climate sensitivity in the Hadley Centre climate model. <i>Journal of Geophysical Research</i> , 2007 , 112,		95
226	. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1998 , 50, 491-505	3.3	94
225	Evaluating climate geoengineering proposals in the context of the Paris Agreement temperature goals. <i>Nature Communications</i> , 2018 , 9, 3734	17.4	89
224	Air traffic may increase cirrus cloudiness. <i>Nature</i> , 1999 , 397, 30-31	50.4	88
223	Impact of nonabsorbing anthropogenic aerosols on clear-sky atmospheric absorption. <i>Journal of Geophysical Research</i> , 2006 , 111,		86
222	Trend in global black carbon emissions from 1960 to 2007. <i>Environmental Science & Technology</i> , 2014 , 48, 6780-7	10.3	85
221	The Geoengineering Model Intercomparison Project Phase 6 (GeoMIP6): simulation design and preliminary results. <i>Geoscientific Model Development</i> , 2015 , 8, 3379-3392	6.3	85
220	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
219	Low sensitivity of cloud condensation nuclei to changes in the sea-air flux of dimethyl-sulphide. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 7545-7559	6.8	82
218	Carbon dioxide induced stomatal closure increases radiative forcing via a rapid reduction in low cloud. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a	4.9	80
217	Aerosol indirect effects in POLDER satellite data and the Laboratoire de Météorologie Dynamique Zoom (LMDZ) general circulation model. <i>Journal of Geophysical Research</i> , 2004 , 109,		79
216	Improving the seasonal cycle and interannual variations of biomass burning aerosol sources. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 1211-1222	6.8	77
215	Uncertainties in assessing radiative forcing by mineral dust. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1998 , 50, 491-505	3.3	77
214	Estimating aerosol emissions by assimilating observed aerosol optical depth in a global aerosol model. <i>Atmospheric Chemistry and Physics</i> , 2012 , 12, 4585-4606	6.8	75
213	Refractive index of aerosol particles over the Amazon tropical forest during LBA-EUSTACH 1999. <i>Journal of Aerosol Science</i> , 2003 , 34, 883-907	4.3	75
212	Geoengineering by stratospheric SO ₂ injection: results from the Met Office HadGEM2 climate model and comparison with the Goddard Institute for Space Studies ModelE. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 5999-6006	6.8	74

211	Intercomparison of shortwave radiative transfer codes and measurements. <i>Journal of Geophysical Research</i> , 2005 , 110,		74
210	On summing the components of radiative forcing of climate change. <i>Climate Dynamics</i> , 2001 , 18, 297-302.	4.2	74
209	Understanding Rapid Adjustments to Diverse Forcing Agents. <i>Geophysical Research Letters</i> , 2018 , 45, 12023-12031	4.9	73
208	Aerosol optical depths and direct radiative perturbations by species and source type. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	72
207	A study of the global cycle of carbonaceous aerosols in the LMDZT general circulation model. <i>Journal of Geophysical Research</i> , 2004 , 109,		72
206	Snow cover sensitivity to black carbon deposition in the Himalayas: from atmospheric and ice core measurements to regional climate simulations. <i>Atmospheric Chemistry and Physics</i> , 2014 , 14, 4237-4249	6.8	66
205	Precipitation and radiation modeling in a general circulation model: Introduction of cloud microphysical processes. <i>Journal of Geophysical Research</i> , 1995 , 100, 16395		66
204	Effective radiative forcing and adjustments in CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9591-9618	6.8	66
203	Sensitivity of cloud condensation nuclei to regional changes in dimethyl-sulphide emissions. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 2723-2733	6.8	65
202	How vegetation impacts affect climate metrics for ozone precursors. <i>Journal of Geophysical Research</i> , 2010 , 115,		64
201	Climate response to the physiological impact of carbon dioxide on plants in the Met Office Unified Model HadCM3. <i>Climate Dynamics</i> , 2009 , 32, 237-249	4.2	64
200	Physical properties and concentration of aerosol particles over the Amazon tropical forest during background and biomass burning conditions. <i>Atmospheric Chemistry and Physics</i> , 2003 , 3, 951-967	6.8	63
199	Sources, transport and deposition of iron in the global atmosphere. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 6247-6270	6.8	62
198	Reversibility in an Earth System model in response to CO ₂ concentration changes. <i>Environmental Research Letters</i> , 2012 , 7, 024013	6.2	62
197	Constraining the first aerosol indirect radiative forcing in the LMDZ GCM using POLDER and MODIS satellite data. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	62
196	Climate impact of black carbon emitted from energy consumption in the world's regions. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	60
195	Will marine dimethylsulfide emissions amplify or alleviate global warming? A model study. <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2004 , 61, 826-835	2.4	60
194	Climate model projections from the Scenario Model Intercomparison Project (ScenarioMIP) of CMIP6. <i>Earth System Dynamics</i> , 2021 , 12, 253-293	4.8	60

193	Estimation of the aerosol perturbation to the Earth's Radiative Budget over oceans using POLDER satellite aerosol retrievals. <i>Geophysical Research Letters</i> , 2000 , 27, 1103-1106	4.9	57
192	On Aerosol Direct Shortwave Forcing and the Henyey-Greenstein Phase Function. <i>Journals of the Atmospheric Sciences</i> , 1998 , 55, 128-134	2.1	57
191	STAAARTE-MED 1998 summer airborne measurements over the Aegean Sea 2. Aerosol scattering and absorption, and radiative calculations. <i>Journal of Geophysical Research</i> , 2002 , 107, AAC 2-1-AAC 2-14		56
190	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
189	OH and halogen atom influence on the variability of non-methane hydrocarbons in the Antarctic Boundary Layer. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2007 , 59, 22-38	3.3	54
188	Opinion: In the wake of Paris Agreement, scientists must embrace new directions for climate change research. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 7287-90	11.5	53
187	Contrasts in the effects on climate of anthropogenic sulfate aerosols between the 20th and the 21st century. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	52
186	Parameterization of contrails in the UK Met Office Climate Model. <i>Journal of Geophysical Research</i> , 2010 , 115,		51
185	Estimation of global black carbon direct radiative forcing and its uncertainty constrained by observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 5948-5971	4.4	50
184	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
183	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
182	General circulation model estimates of aerosol transport and radiative forcing during the Indian Ocean Experiment. <i>Journal of Geophysical Research</i> , 2004 , 109,		49
181	A comparison of the climate impacts of geoengineering by stratospheric SO ₂ injection and by brightening of marine stratocumulus cloud. <i>Atmospheric Science Letters</i> , 2011 , 12, 176-183	2.4	48
180	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
179	Causes of irregularities in trends of global mean surface temperature since the late 19th century. <i>Science Advances</i> , 2018 , 4, eaao5297	14.3	47
178	Aerosol analysis and forecast in the European Centre for Medium-Range Weather Forecasts Integrated Forecast System: 3. Evaluation by means of case studies. <i>Journal of Geophysical Research</i> , 2011 , 116,		46
177	Implementation of the CMIP6 Forcing Data in the IPSL-CM6A-LR Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001940	7.1	45
176	Sea-salt and dust aerosols in the ECMWF IFS model. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	45

175	The roles of aerosol, water vapor and cloud in future global dimming/brightening. <i>Journal of Geophysical Research</i> , 2011 , 116,		44
174	LMDZ6A: The Atmospheric Component of the IPSL Climate Model With Improved and Better Tuned Physics. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS001892	7.1	42
173	Highly contrasting effects of different climate forcing agents on terrestrial ecosystem services. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011 , 369, 2026-37	3	40
172	Sulfate Aerosol Indirect Effect and CO ₂ Greenhouse Forcing: EquilibriumResponse of the LMD GCM and Associated Cloud Feedbacks. <i>Journal of Climate</i> , 1998 , 11, 1673-1684	4.4	40
171	Arctic sea ice and atmospheric circulation under the GeoMIP G1 scenario. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 567-583	4.4	39
170	Water vapour affects both rain and aerosol optical depth. <i>Nature Geoscience</i> , 2013 , 6, 4-5	18.3	39
169	Carbon Monitor, a near-real-time daily dataset of global CO emission from fossil fuel and cement production. <i>Scientific Data</i> , 2020 , 7, 392	8.2	39
168	Validation of reactive gases and aerosols in the MACC global analysis and forecast system. <i>Geoscientific Model Development</i> , 2015 , 8, 3523-3543	6.3	38
167	Drivers of Precipitation Change: An Energetic Understanding. <i>Journal of Climate</i> , 2018 , 31, 9641-9657	4.4	37
166	Influence of anthropogenic aerosol deposition on the relationship between oceanic productivity and warming. <i>Geophysical Research Letters</i> , 2015 , 42, 10745-10754	4.9	35
165	The Joint UK Land Environment Simulator (JULES), Model description [Part 1: Energy and water fluxes 2011 ,		35
164	Aerosol absorption over the clear-sky oceans deduced from POLDER-1 and AERONET observations. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	35
163	Evaluating aerosol/cloud/radiation process parameterizations with single-column models and Second Aerosol Characterization Experiment (ACE-2) cloudy column observations. <i>Journal of Geophysical Research</i> , 2003 , 108, n/a-n/a		35
162	Efficacy of Climate Forcings in PDRMIP Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 12824-12844	4.4	34
161	Status and future of numerical atmospheric aerosol prediction with a focus on data requirements. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 10615-10643	6.8	34
160	Why Does Aerosol Forcing Control Historical Global-Mean Surface Temperature Change in CMIP5 Models?. <i>Journal of Climate</i> , 2015 , 28, 6608-6625	4.4	33
159	Detection of solar dimming and brightening effects on Northern Hemisphere river flow. <i>Nature Geoscience</i> , 2014 , 7, 796-800	18.3	33
158	Declining Aerosols in CMIP5 Projections: Effects on Atmospheric Temperature Structure and Midlatitude Jets. <i>Journal of Climate</i> , 2014 , 27, 6960-6977	4.4	33

157	Source evaluation of aerosols measured during the Indian Ocean Experiment using combined chemical transport and back trajectory modeling. <i>Journal of Geophysical Research</i> , 2007 , 112,		33
156	Changes in atmospheric sulfur burdens and concentrations and resulting radiative forcings under IPCC SRES emission scenarios for 1990–2100. <i>Journal of Geophysical Research</i> , 2005 , 110, n/a–n/a		33
155	Jury is still out on the radiative forcing by black carbon. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E5092–3	11.5	32
154	The Joint UK Land Environment Simulator (JULES), Model description [Part 2: Carbon fluxes and vegetation] 2011 ,		32
153	Comparison of physically- and economically-based CO ₂ -equivalences for methane. <i>Earth System Dynamics</i> , 2012 , 3, 49–61	4.8	32
152	Exploiting the weekly cycle as observed over Europe to analyse aerosol indirect effects in two climate models. <i>Atmospheric Chemistry and Physics</i> , 2009 , 9, 8493–8501	6.8	32
151	Are there reasons against open-ended research into solar radiation management? A model of intergenerational decision-making under uncertainty. <i>Journal of Environmental Economics and Management</i> , 2017 , 84, 1–17	5.3	31
150	Dynamical response of Mediterranean precipitation to greenhouse gases and aerosols. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 8439–8452	6.8	31
149	The compact Earth system model OSCAR v2.2: description and first results. <i>Geoscientific Model Development</i> , 2017 , 10, 271–319	6.3	30
148	Atmospheric Aerosols 2015 ,		30
147	New Directions: The impact of oceanic iron fertilisation on cloud condensation nuclei. <i>Atmospheric Environment</i> , 2008 , 42, 5728–5730	5.3	30
146	Declining uncertainty in transient climate response as CO ₂ forcing dominates future climate change. <i>Nature Geoscience</i> , 2015 , 8, 181–185	18.3	29
145	Sensitivity of the radiative forcing by stratospheric sulfur geoengineering to the amount and strategy of the SO ₂ injection studied with the LMDZ-S3A model. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2769–2786	6.8	29
144	Climate extremes in multi-model simulations of stratospheric aerosol and marine cloud brightening climate engineering. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 9593–9610	6.8	29
143	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
142	Sea-salt injections into the low-latitude marine boundary layer: The transient response in three Earth system models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 12,195–12,206	4.4	29
141	Description and evaluation of the tropospheric aerosol scheme in the European Centre for Medium-Range Weather Forecasts (ECMWF) Integrated Forecasting System (IFS-AER, cycle 45R1). <i>Geoscientific Model Development</i> , 2019 , 12, 4627–4659	6.3	29
140	Origin of surface and columnar Indian Ocean Experiment (INDOEX) aerosols using source- and region-tagged emissions transport in a general circulation model. <i>Journal of Geophysical Research</i> , 2008 , 113,		28

139	Aerosol lofting from sea breeze during the Indian Ocean Experiment. <i>Journal of Geophysical Research</i> , 2006 , 111,		28
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