

Alan Robock

List of Publications by Citations

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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.

260
papers

19,208
citations

75
h-index

133
g-index

299
ext. papers

21,429
ext. citations

7.3
avg, IF

6.83
L-index

#	Paper	IF	Citations
260	Volcanic eruptions and climate. <i>Reviews of Geophysics</i> , 2000 , 38, 191-219	23.1	1605
259	The multi-institution North American Land Data Assimilation System (NLDAS): Utilizing multiple GCIP products and partners in a continental distributed hydrological modeling system. <i>Journal of Geophysical Research</i> , 2004 , 109,		847
258	The International Soil Moisture Network: a data hosting facility for global in situ soil moisture measurements. <i>Hydrology and Earth System Sciences</i> , 2011 , 15, 1675-1698	5.5	669
257	The Global Soil Moisture Data Bank. <i>Bulletin of the American Meteorological Society</i> , 2000 , 81, 1281-1299	6.1	628
256	Volcanic forcing of climate over the past 1500 years: An improved ice core-based index for climate models. <i>Journal of Geophysical Research</i> , 2008 , 113,		464
255	Temporal and spatial scales of observed soil moisture variations in the extratropics. <i>Journal of Geophysical Research</i> , 2000 , 105, 11865-11877		406
254	Global cooling after the eruption of Mount Pinatubo: a test of climate feedback by water vapor. <i>Science</i> , 2002 , 296, 727-30	33.3	353
253	Steady decline of east Asian monsoon winds, 1969-2000: Evidence from direct ground measurements of wind speed. <i>Journal of Geophysical Research</i> , 2006 , 111,		346
252	The Volcanic Signal in Surface Temperature Observations. <i>Journal of Climate</i> , 1995 , 8, 1086-1103	4.4	306
251	Global Warming and Northern Hemisphere Sea Ice Extent. <i>Science</i> , 1999 , 286, 1934-1937	33.3	293
250	Real-time and retrospective forcing in the North American Land Data Assimilation System (NLDAS) project. <i>Journal of Geophysical Research</i> , 2003 , 108,		284
249	Regional climate responses to geoengineering with tropical and Arctic SO ₂ injections. <i>Journal of Geophysical Research</i> , 2008 , 113,		282
248	Radiative forcing from the 1991 Mount Pinatubo volcanic eruption. <i>Journal of Geophysical Research</i> , 1998 , 103, 13837-13857		281
247	The Geoengineering Model Intercomparison Project (GeoMIP). <i>Atmospheric Science Letters</i> , 2011 , 12, 162-167	2.4	259
246	Scales of temporal and spatial variability of midlatitude soil moisture. <i>Journal of Geophysical Research</i> , 1996 , 101, 7163-7174		248
245	Spectral nudging to eliminate the effects of domain position and geometry in regional climate model simulations. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		236
244	Validation of the Snow Submodel of the Biosphere-Atmosphere Transfer Scheme with Russian Snow Cover and Meteorological Observational Data. <i>Journal of Climate</i> , 1997 , 10, 353-373	4.4	221

243	Winter warming from large volcanic eruptions. <i>Geophysical Research Letters</i> , 1992 , 19, 2405-2408	4.9	220
242	An overview of geoengineering of climate using stratospheric sulphate aerosols. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008 , 366, 4007-37	3	205
241	Coupled Model Intercomparison Project 5 (CMIP5) simulations of climate following volcanic eruptions. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		203
240	Temperature and precipitation history of the Arctic. <i>Quaternary Science Reviews</i> , 2010 , 29, 1679-1715	3.9	203
239	Benefits, risks, and costs of stratospheric geoengineering. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	196
238	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
237	Incorporating water table dynamics in climate modeling: 1. Water table observations and equilibrium water table simulations. <i>Journal of Geophysical Research</i> , 2007 , 112,		187
236	Evidence of enhanced precipitation due to irrigation over the Great Plains of the United States. <i>Journal of Geophysical Research</i> , 2010 , 115,		186
235	Arctic Oscillation response to volcanic eruptions in the IPCC AR4 climate models. <i>Journal of Geophysical Research</i> , 2006 , 111,		180
234	Large volcanic aerosol load in the stratosphere linked to Asian monsoon transport. <i>Science</i> , 2012 , 337, 78-81	33.3	175
233	Arctic Oscillation response to the 1991 Mount Pinatubo eruption: Effects of volcanic aerosols and ozone depletion. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 28-1		175
232	Surface radiation budgets in support of the GEWEX Continental-Scale International Project (GCIP) and the GEWEX Americas Prediction Project (GAPP), including the North American Land Data Assimilation System (NLDAS) project. <i>Journal of Geophysical Research</i> , 2003 , 108,		174
231	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
230	Use of Midlatitude Soil Moisture and Meteorological Observations to Validate Soil Moisture Simulations with Biosphere and Bucket Models. <i>Journal of Climate</i> , 1995 , 8, 15-35	4.4	157
229	Climate model simulation of winter warming and summer cooling following the 1991 Mount Pinatubo volcanic eruption. <i>Journal of Geophysical Research</i> , 1999 , 104, 19039-19055		155
228	The Seasonal Cycle of Snow Cover, Sea Ice and Surface Albedo. <i>Monthly Weather Review</i> , 1980 , 108, 267-285		152
227	Evaluation of the North American Land Data Assimilation System over the southern Great Plains during the warm season. <i>Journal of Geophysical Research</i> , 2003 , 108,		144
226	Pinatubo eruption winter climate effects: model versus observations. <i>Climate Dynamics</i> , 1993 , 9, 81-93	4.2	141

225	Incorporating water table dynamics in climate modeling: 2. Formulation, validation, and soil moisture simulation. <i>Journal of Geophysical Research</i> , 2007 , 112,		139
224	20 reasons why geoengineering may be a bad idea. <i>Bulletin of the Atomic Scientists</i> , 2008 , 64, 14-59	1.6	136
223	Climatic response to high-latitude volcanic eruptions. <i>Journal of Geophysical Research</i> , 2005 , 110,		132
222	Effects of Frozen Soil on Soil Temperature, Spring Infiltration, and Runoff: Results from the PILPS 2(d) Experiment at Valdai, Russia. <i>Journal of Hydrometeorology</i> , 2003 , 4, 334-351	3.7	132
221	Stratospheric ozone response to sulfate geoengineering: Results from the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 2629-2653	4.4	128
220	Streamflow and water balance intercomparisons of four land surface models in the North American Land Data Assimilation System project. <i>Journal of Geophysical Research</i> , 2004 , 109,		126
219	Regional Climate Simulations over North America: Interaction of Local Processes with Improved Large-Scale Flow. <i>Journal of Climate</i> , 2005 , 18, 1227-1246	4.4	122
218	Simulations of a Boreal Grassland Hydrology at Valdai, Russia: PILPS Phase 2(d). <i>Monthly Weather Review</i> , 2000 , 128, 301-321	2.4	121
217	20 reasons why geoengineering may be a bad idea. <i>Bulletin of the Atomic Scientists</i> , 2008 , 64, 14-18	1.6	118
216	Evaluation of the AMIP soil moisture simulations. <i>Global and Planetary Change</i> , 1998 , 19, 181-208	4.2	117
215	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
214	Validation of the North American Land Data Assimilation System (NLDAS) retrospective forcing over the southern Great Plains. <i>Journal of Geophysical Research</i> , 2003 , 108,		113
213	Did the Toba volcanic eruption of ~74 ka B.P. produce widespread glaciation?. <i>Journal of Geophysical Research</i> , 2009 , 114,		112
212	Ice cores as an index of global volcanism from 1850 to the present. <i>Journal of Geophysical Research</i> , 1995 , 100, 11549		112
211	High-latitude eruptions cast shadow over the African monsoon and the flow of the Nile. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	111
210	Land surface conditions over Eurasia and Indian summer monsoon rainfall. <i>Journal of Geophysical Research</i> , 2003 , 108,		109
209	Incorporating water table dynamics in climate modeling: 3. Simulated groundwater influence on coupled land-atmosphere variability. <i>Journal of Geophysical Research</i> , 2008 , 113,		107
208	Pinatubo eruption. The climatic aftermath. <i>Science</i> , 2002 , 295, 1242-4	33.3	104

207	Evaluation of Global Soil Wetness Project Soil Moisture Simulations. <i>Journal of the Meteorological Society of Japan</i> , 1999 , 77, 183-198	2.8	104
206	Evaluation of Reanalysis Soil Moisture Simulations Using Updated Chinese Soil Moisture Observations. <i>Journal of Hydrometeorology</i> , 2005 , 6, 180-193	3.7	101
205	Global warming in the context of the Little Ice Age. <i>Journal of Geophysical Research</i> , 1999 , 104, 19057-19070		101
204	Tropospheric Volcanic Aerosol. <i>Geophysical Monograph Series</i> , 2003 , 189-212	1.1	100
203	The Model Intercomparison Project on the climatic response to Volcanic forcing (VolMIP): experimental design and forcing input data for CMIP6. <i>Geoscientific Model Development</i> , 2016 , 9, 2701-2719	6.3	99
202	Modeling the distribution of the volcanic aerosol cloud from the 1783-1784 Laki eruption. <i>Journal of Geophysical Research</i> , 2006 , 111,		97
201	Satellite remote sensing of soil moisture in Illinois, United States. <i>Journal of Geophysical Research</i> , 1999 , 104, 4145-4168		95
200	Atmospheric science. A test for geoengineering?. <i>Science</i> , 2010 , 327, 530-1	33.3	92
199	Key results and implications from phase 1(c) of the Project for Intercomparison of Land-surface Parametrization Schemes. <i>Climate Dynamics</i> , 1999 , 15, 673-684	4.2	92
198	Ice and Snow Feedbacks and the Latitudinal and Seasonal Distribution of Climate Sensitivity. <i>Journals of the Atmospheric Sciences</i> , 1983 , 40, 986-997	2.1	89
197	Impacts of land cover data quality on regional climate simulations. <i>International Journal of Climatology</i> , 2010 , 30, 1942-1953	3.5	88
196	Black carbon lofts wildfire smoke high into the stratosphere to form a persistent plume. <i>Science</i> , 2019 , 365, 587-590	33.3	87
195	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
194	Nuclear winter revisited with a modern climate model and current nuclear arsenals: Still catastrophic consequences. <i>Journal of Geophysical Research</i> , 2007 , 112,		84
193	Internally and Externally Caused Climate Change. <i>Journals of the Atmospheric Sciences</i> , 1978 , 35, 1111-1122		83
192	Tropical explosive volcanic eruptions can trigger El Niño by cooling tropical Africa. <i>Nature Communications</i> , 2017 , 8, 778	17.4	82
191	Climatic consequences of regional nuclear conflicts. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 2003-2013		82
190	Large-scale water cycle perturbation due to irrigation pumping in the US High Plains: A synthesis of observed streamflow changes. <i>Journal of Hydrology</i> , 2010 , 390, 222-244	6	79

189	Sensitivity of satellite microwave and infrared observations to soil moisture at a global scale: Relationship of satellite observations to in situ soil moisture measurements. <i>Journal of Geophysical Research</i> , 2005 , 110,		79
188	The 1452 or 1453 A.D. Kuwae eruption signal derived from multiple ice core records: Greatest volcanic sulfate event of the past 700 years. <i>Journal of Geophysical Research</i> , 2006 , 111,		79
187	A multi-model assessment of regional climate disparities caused by solar geoengineering. <i>Environmental Research Letters</i> , 2014 , 9, 074013	6.2	77
186	Ocean response to volcanic eruptions in Coupled Model Intercomparison Project 5 simulations. <i>Journal of Geophysical Research: Oceans</i> , 2014 , 119, 5622-5637	3.3	75
185	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
184	Tambora 1815 as a test case for high impact volcanic eruptions: Earth system effects. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2016 , 7, 569-589	8.4	74
183	Radiative impact of the Mount Pinatubo volcanic eruption: Lower stratospheric response. <i>Journal of Geophysical Research</i> , 2000 , 105, 24409-24429		72
182	Climate effects of high-latitude volcanic eruptions: Role of the time of year. <i>Journal of Geophysical Research</i> , 2011 , 116,		70
181	Land surface model spin-up behavior in the North American Land Data Assimilation System (NLDAS). <i>Journal of Geophysical Research</i> , 2003 , 108,		70
180	Use of general circulation model output in the creation of climate change scenarios for impact analysis. <i>Climatic Change</i> , 1993 , 23, 293-335	4.5	67
179	The Volcanic Signal in Goddard Institute for Space Studies Three-Dimensional Model Simulations. <i>Journal of Climate</i> , 1994 , 7, 44-55	4.4	65
178	Allergenic pollen season variations in the past two decades under changing climate in the United States. <i>Global Change Biology</i> , 2015 , 21, 1581-9	11.4	63
177	Relationships between tropospheric water vapor and surface temperature as observed by radiosondes. <i>Geophysical Research Letters</i> , 1992 , 19, 1839-1842	4.9	62
176	Studying geoengineering with natural and anthropogenic analogs. <i>Climatic Change</i> , 2013 , 121, 445-458	4.5	61
175	Arctic oscillation response to the 1991 Pinatubo eruption in the SKYHI general circulation model with a realistic quasi-biennial oscillation. <i>Journal of Geophysical Research</i> , 2004 , 109, n/a-n/a		61
174	A multimodel examination of climate extremes in an idealized geoengineering experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 3900-3923	4.4	60
173	Evaluation of SMOS retrievals of soil moisture over the central United States with currently available in situ observations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		60
172	Local nuclear war, global suffering. <i>Scientific American</i> , 2010 , 302, 74-81	0.5	60

171	Sulfuric acid deposition from stratospheric geoengineering with sulfate aerosols. <i>Journal of Geophysical Research</i> , 2009 , 114,		59
170	Atmospheric volcanic loading derived from bipolar ice cores: Accounting for the spatial distribution of volcanic deposition. <i>Journal of Geophysical Research</i> , 2007 , 112,		59
169	Atmospheric effects and societal consequences of regional scale nuclear conflicts and acts of individual nuclear terrorism. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 1973-2002	6.8	54
168	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
167	Global, Long-Term Sulphur Dioxide Measurements from TOVS Data: A New Tool for Studying Explosive Volcanism and Climate. <i>Geophysical Monograph Series</i> , 2003 , 75-92	1.1	53
166	Potentially dangerous consequences for biodiversity of solar geoengineering implementation and termination. <i>Nature Ecology and Evolution</i> , 2018 , 2, 475-482	12.3	52
165	Surface cooling due to forest fire smoke. <i>Journal of Geophysical Research</i> , 1991 , 96, 20869		52
164	Stratospheric sulfate geoengineering could enhance the terrestrial photosynthesis rate. <i>Atmospheric Chemistry and Physics</i> , 2016 , 16, 1479-1489	6.8	50
163	Emissions from volcanoes. <i>Advances in Global Change Research</i> , 2004 , 269-303	1.2	50
162	Multidecadal global cooling and unprecedented ozone loss following a regional nuclear conflict. <i>Earth's Future</i> , 2014 , 2, 161-176	7.9	49
161	18-Year Land-Surface Hydrology Model Simulations for a Midlatitude Grassland Catchment in Valdai, Russia. <i>Monthly Weather Review</i> , 1997 , 125, 3279-3296	2.4	47
160	Temperature trends at the surface and in the troposphere. <i>Journal of Geophysical Research</i> , 2006 , 111,		47
159	The Campanian Ignimbrite Eruption, Heinrich Event 4, and Palaeolithic Change in Europe: A High-Resolution Investigation. <i>Geophysical Monograph Series</i> , 2003 , 301-325	1.1	47
158	Environmental consequences of nuclear war. <i>Physics Today</i> , 2008 , 61, 37-42	0.9	46
157	Anticipating future Volcanic Explosivity Index (VEI) 7 eruptions and their chilling impacts 2018 , 14, 572-603		46
156	Forty-five years of observed soil moisture in the Ukraine: No summer desiccation (yet). <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	45
155	Snow and ice feedbacks prolong effects of nuclear winter. <i>Nature</i> , 1984 , 310, 667-670	50.4	45
154	Optimal design of surface networks for observation of soil moisture. <i>Journal of Geophysical Research</i> , 1999 , 104, 19743-19749		44

153	Solar radiation management impacts on agriculture in China: A case study in the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 8695-8711	4.4	42
152	A New International Network for in Situ Soil Moisture Data. <i>Eos</i> , 2011 , 92, 141-142	1.5	42
151	Atmospheric science. Whither geoengineering?. <i>Science</i> , 2008 , 320, 1166-7	33.3	42
150	Nuclear war. Consequences of regional-scale nuclear conflicts. <i>Science</i> , 2007 , 315, 1224-5	33.3	42
149	A latitudinally dependent volcanic dust veil index, and its effect on climate simulations. <i>Journal of Volcanology and Geothermal Research</i> , 1981 , 11, 67-80	2.8	42
148	The volcanic record in ice cores for the past 2000 years 1996 , 533-546		42
147	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
146	Simulation and observations of stratospheric aerosols from the 2009 Sarychev volcanic eruption. <i>Journal of Geophysical Research</i> , 2011 , 116,		40
145	Southern Hemisphere atmospheric circulation effects of the 1991 Mount Pinatubo eruption. <i>Geophysical Research Letters</i> , 2007 , 34, n/a-n/a	4.9	40
144	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
143	Cooling following large volcanic eruptions corrected for the effect of diffuse radiation on tree rings. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	38
142	Surface Air Temperature Simulations by AMIP General Circulation Models: Volcanic and ENSO Signals and Systematic Errors. <i>Journal of Climate</i> , 1998 , 11, 1538-1552	4.4	38
141	Winter warming and summer monsoon reduction after volcanic eruptions in Coupled Model Intercomparison Project 5 (CMIP5) simulations. <i>Geophysical Research Letters</i> , 2016 , 43, 10,920-10,928	4.9	37
140	A new Geoengineering Model Intercomparison Project (GeoMIP) experiment designed for climate and chemistry models. <i>Geoscientific Model Development</i> , 2015 , 8, 43-49	6.3	37
139	Self-assured destruction: The climate impacts of nuclear war. <i>Bulletin of the Atomic Scientists</i> , 2012 , 68, 66-74	1.6	36
138	Solar dimming and CO2 effects on soil moisture trends. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	36
137	Diurnal asymmetry of climatic response to increased CO2 and aerosols: Forcings and feedbacks. <i>Journal of Geophysical Research</i> , 1995 , 100, 26211		36
136	Evaluation of Intergovernmental Panel on Climate Change Fourth Assessment soil moisture simulations for the second half of the twentieth century. <i>Journal of Geophysical Research</i> , 2007 , 112,		35

135	Impact of Volcanic Eruptions on Decadal to Centennial Fluctuations of Arctic Sea Ice Extent during the Last Millennium and on Initiation of the Little Ice Age. <i>Journal of Climate</i> , 2018 , 31, 2145-2167	4.4	34
134	Negligible climatic effects from the 2008 Okmok and Kasatochi volcanic eruptions. <i>Journal of Geophysical Research</i> , 2010 , 115,		33
133	Soil moisture simulations in revised AMIP models. <i>Journal of Geophysical Research</i> , 2000 , 105, 26635-26644		33
132	Multi-model comparison of the volcanic sulfate deposition from the 1815 eruption of Mt. Tambora. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 2307-2328	6.8	31
131	Arctic cryosphere response in the Geoengineering Model Intercomparison Project G3 and G4 scenarios. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 1308-1321	4.4	31
130	Northern Hemisphere Winter Warming and Summer Monsoon Reduction after Volcanic Eruptions over the Last Millennium. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , 122, 7971-7989	4.4	31
129	Spatial Variation of Soil Moisture in China: Geostatistical Characterization.. <i>Journal of the Meteorological Society of Japan</i> , 2001 , 79, 555-574	2.8	31
128	Resilience to global food supply catastrophes. <i>Environment Systems and Decisions</i> , 2015 , 35, 301-313	4.1	30
127	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
126	Lidar validation of SAGE II aerosol measurements after the 1991 Mount Pinatubo eruption. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 3-1		29
125	CHAPTER 7:Stratospheric Aerosol Geoengineering. <i>Issues in Environmental Science and Technology</i> , 2014 , 162-185	0.7	29
124	Petrological and Volcanological Constraints on Volcanic Sulfur Emissions to the Atmosphere. <i>Geophysical Monograph Series</i> , 2003 , 11-40	1.1	28
123	Potential effects of global climatic change on the phenology and yield of maize in venezuela. <i>Climatic Change</i> , 1995 , 29, 189-211	4.5	28
122	Rapidly expanding nuclear arsenals in Pakistan and India portend regional and global catastrophe. <i>Science Advances</i> , 2019 , 5, eaay5478	14.3	27
121	Influences of soil moisture and vegetation on convective precipitation forecasts over the United States Great Plains. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 9338-9358	4.4	27
120	Impacts of a nuclear war in South Asia on rice production in Mainland China. <i>Climatic Change</i> , 2013 , 116, 357-372	4.5	27
119	Impacts of stratospheric sulfate geoengineering on tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 11913-11928	6.8	27
118	Modelling land cover change impact on the summer climate of the Marmara Region, Turkey. <i>International Journal of Global Warming</i> , 2011 , 3, 194	0.6	27

117	Impacts of a nuclear war in South Asia on soybean and maize production in the Midwest United States. <i>Climatic Change</i> , 2013 , 116, 373-387	4.5	26
116	Climatic impact of the long-lasting 1783 Laki eruption: Inapplicability of mass-independent sulfur isotopic composition measurements. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		26
115	Response to comments on "Large volcanic aerosol load in the stratosphere linked to Asian monsoon transport". <i>Science</i> , 2013 , 339, 647	33.3	26
114	Trends in moments of climatic indices. <i>Geophysical Research Letters</i> , 2002 , 29, 14-1	4.9	26
113	Sensitivity of stratospheric geoengineering with black carbon to aerosol size and altitude of injection. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		25
112	Northern Hemisphere Temperature Variability for the Past Three Centuries: Tree-Ring and Model Estimates. <i>Climatic Change</i> , 1999 , 42, 663-675	4.5	25
111	Nuclear Winter Responses to Nuclear War Between the United States and Russia in the Whole Atmosphere Community Climate Model Version 4 and the Goddard Institute for Space Studies ModelE. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 8522-8543	4.4	24
110	Surface Climate Responses to Explosive Volcanic Eruptions Seen in Long European Temperature Records and Mid-to-High Latitude Tree-Ring Density Around the Northern Hemisphere. <i>Geophysical Monograph Series</i> , 2003 , 239-254	1.1	24
109	Detection of volcanic, CO ₂ , and ENSO signals in surface air temperature. <i>Advances in Space Research</i> , 1985 , 5, 53-56	2.4	24
108	The Number and Magnitude of Large Explosive Volcanic Eruptions Between 904 and 1865 A.D.: Quantitative Evidence from a New South Pole Ice Core. <i>Geophysical Monograph Series</i> , 2003 , 165-176	1.1	23
107	100 Years of Progress in Understanding the Stratosphere and Mesosphere. <i>Meteorological Monographs</i> , 2019 , 59, 27.1-27.62	5.7	22
106	Decadal reduction of Chinese agriculture after a regional nuclear war. <i>Earth's Future</i> , 2015 , 3, 37-48	7.9	22
105	Spatial and temporal variability of the stratospheric aerosol cloud produced by the 1991 Mount Pinatubo eruption. <i>Journal of Geophysical Research</i> , 2003 , 108,		22
104	GCM evaluation of a mechanism for El Niño triggering by the El Chichón ash cloud. <i>Geophysical Research Letters</i> , 1995 , 22, 2369-2372	4.9	22
103	The International Soil Moisture Network: serving Earth system science for over a decade. <i>Hydrology and Earth System Sciences</i> , 2021 , 25, 5749-5804	5.5	22
102	The Volcanic Contribution to Climate Change of the Past 100 Years. <i>Developments in Atmospheric Science</i> , 1991 , 429-443		21
101	A regional nuclear conflict would compromise global food security. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 7071-7081	11.5	18
100	Diurnal and seasonal cycles of trends of surface air temperature. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 13-1		18

99	The Short-Term Influence of the Mount St. Helens Volcanic Eruption on Surface Temperature in the Northwest United States. <i>Monthly Weather Review</i> , 1982 , 110, 614-622	2.4	18
98	Reaching 1.5 and 2.0 °C global surface temperature targets using stratospheric aerosol geoengineering. <i>Earth System Dynamics</i> , 2020 , 11, 579-601	4.8	18
97	Albedo enhancement by stratospheric sulfur injections: More research needed. <i>Earth's Future</i> , 2016 , 4, 644-648	7.9	18
96	Forcings and feedbacks in the GeoMIP ensemble for a reduction in solar irradiance and increase in CO ₂ . <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 5226-5239	4.4	18
95	High Resolution Ice Core Records of Late Holocene Volcanism: Current and Future Contributions from the Greenland PARCA Cores. <i>Geophysical Monograph Series</i> , 2003 , 153-164	1.1	17
94	LALINET: The First Latin American Born Regional Atmospheric Observational Network. <i>Bulletin of the American Meteorological Society</i> , 2017 , 98, 1255-1275	6.1	16
93	Modeling the 1783-1784 Laki Eruption in Iceland: 2. Climate Impacts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 6770-6790	4.4	16
92	Analysis of seasonal cycles in climatic trends with application to satellite observations of sea ice extent. <i>Geophysical Research Letters</i> , 2002 , 29, 24-1-24-4	4.9	16
91	vertical patterns of free and forced climate variations. <i>Geophysical Research Letters</i> , 1996 , 23, 1801-1804	4.9	15
90	Stratospheric geoengineering impacts on El Niño/Southern Oscillation. <i>Atmospheric Chemistry and Physics</i> , 2015 , 15, 11949-11966	6.8	14
89	Analysis of diurnal and seasonal cycles and trends in climatic records with arbitrary observation times. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	14
88	The Latest on Volcanic Eruptions and Climate. <i>Eos</i> , 2013 , 94, 305-306	1.5	13
87	Will Geoengineering With Solar Radiation Management Ever Be Used?. <i>Ethics, Policy and Environment</i> , 2012 , 15, 202-205	0.6	13
86	Nuclear winter. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2010 , 1, 418-427	8.4	13
85	Stratospheric Forcing Needed for Dynamical Seasonal Prediction. <i>Bulletin of the American Meteorological Society</i> , 2001 , 82, 2189-2192	6.1	13
84	The Russian Surface Temperature Data Set. <i>Journal of Applied Meteorology</i> , 1982 , 21, 1781-1785		12
83	Introduction: Mount Pinatubo as a Test of Climate Feedback Mechanisms. <i>Geophysical Monograph Series</i> , 2003 , 1-8	1.1	12
82	Model physics and chemistry causing intermodel disagreement within the VolMIP-Tambora Interactive Stratospheric Aerosol ensemble. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 3317-3343	6.8	12

81	Modelled and observed sea surface temperature trends for the Caribbean and Antilles. <i>International Journal of Climatology</i> , 2016 , 36, 1873-1886	3.5	12
80	Modeling the 1783–1784 Laki Eruption in Iceland: 1. Aerosol Evolution and Global Stratospheric Circulation Impacts. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 6750-6769	4.4	11
79	The G4Foam Experiment: global climate impacts of regional ocean albedo modification. <i>Atmospheric Chemistry and Physics</i> , 2017 , 17, 595-613	6.8	11
78	Northern Hemispheric cryosphere response to volcanic eruptions in the Paleoclimate Modeling Intercomparison Project 3 last millennium simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 12,359-12,370	4.4	11
77	Bubble, bubble, toil and trouble. <i>Climatic Change</i> , 2011 , 105, 383-385	4.5	11
76	Correction to "Volcanic eruptions and climate" <i>Reviews of Geophysics</i> , 2007 , 45, n/a-n/a	23.1	11
75	Potential ecological impacts of climate intervention by reflecting sunlight to cool Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	11
74	The climate effects of increasing ocean albedo: an idealized representation of solar geoengineering. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 13097-13113	6.8	11
73	Reply: (Evaluation of Land-Surface Parameterization Schemes Using Observations). <i>Journal of Climate</i> , 1997 , 10, 377-379	4.4	10
72	Climatic Impact of Volcanic Emissions. <i>Geophysical Monograph Series</i> , 2004 , 125-134	1.1	10
71	Volcanism, the atmosphere and climate through time 195-207		9
70	Key factors governing uncertainty in the response to sunshade geoengineering from a comparison of the GeoMIP ensemble and a perturbed parameter ensemble. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 7946-7962	4.4	9
69	Correction to "Volcanic forcing of climate over the past 1500 years: An improved ice core-based index for climate models" <i>Journal of Geophysical Research</i> , 2009 , 114,		8
68	Comment on "Climate forcing by the volcanic eruption of Mount Pinatubo" by David H. Douglass and Robert S. Knox. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	8
67	An Automatic Statistical Methodology to Extract Pulse-Like Forcing Factors in Climatic Time Series: Application to Volcanic Events. <i>Geophysical Monograph Series</i> , 2003 , 177-186	1.1	8
66	Robust winter warming over Eurasia under stratospheric sulfate geoengineering [The role of stratospheric dynamics. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 6985-6997	6.8	8
65	Climatic Impacts of Volcanic Eruptions 2015 , 935-942		7
64	Robust Results From Climate Model Simulations of Geoengineering. <i>Eos</i> , 2013 , 94, 292-292	1.5	7

63	Environmental consequences of nuclear war 2014 ,		7
62	Nuclear winter is a real and present danger. <i>Nature</i> , 2011 , 473, 275-6	50.4	7
61	New models confirm nuclear winter. <i>Bulletin of the Atomic Scientists</i> , 1989 , 45, 32-35	1.6	7
60	On the eddy structure of hurricanes. <i>Quarterly Journal of the Royal Meteorological Society</i> , 1975 , 101, 657-663	6.4	7
59	The Geoengineering Model Intercomparison Project Phase 6 (GeoMIP6): simulation design and preliminary results		7
58	Comparing different generations of idealized solar geoengineering simulations in the Geoengineering Model Intercomparison Project (GeoMIP). <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 4231-4247	6.8	7
57	North Atlantic Oscillation response in GeoMIP experiments G6solar and G6sulfur: why detailed modelling is needed for understanding regional implications of solar radiation management. <i>Atmospheric Chemistry and Physics</i> , 2021 , 21, 1287-1304	6.8	7
56	Stratospheric aerosol geoengineering 2015 ,		6
55	Asia Treads the Nuclear Path, Unaware That Self-Assured Destruction Would Result from Nuclear War. <i>Journal of Asian Studies</i> , 2017 , 76, 437-456	0.1	6
54	Cooperation on GPS Meteorology between the United States and Cuba. <i>Bulletin of the American Meteorological Society</i> , 2015 , 96, 1079-1088	6.1	6
53	Standardizing experiments in geoengineering. <i>Eos</i> , 2011 , 92, 197-197	1.5	6
52	Predictions of Climate Following Volcanic Eruptions. <i>Geophysical Monograph Series</i> , 2003 , 283-300	1.1	6
51	Marine wild-capture fisheries after nuclear war. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 29748-29758	11.5	6
50	How an India-Pakistan nuclear war could start—and have global consequences. <i>Bulletin of the Atomic Scientists</i> , 2019 , 75, 273-279	1.6	5
49	Progress in climate model simulations of geoengineering. <i>Eos</i> , 2012 , 93, 340-340	1.5	5
48	Future Directions in Simulating Solar Geoengineering. <i>Eos</i> , 2014 , 95, 280-280	1.5	4
47	The continuing environmental threat of nuclear weapons: Integrated policy responses. <i>Eos</i> , 2007 , 88, 228	1.5	4
46	Effects of pre-industrial human activities on climate. <i>Chemosphere</i> , 1994 , 29, 1087-97	8.4	4

45	Stratospheric geoengineering impacts on El Niño/Southern Oscillation		4
44	Comment on "No consistent ENSO response to volcanic forcing over the last millennium". <i>Science</i> , 2020 , 369,	33.3	4
43	The Influence of Stratospheric Soot and Sulfate Aerosols on the Northern Hemisphere Wintertime Atmospheric Circulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD034513	4.4	4
42	Nuclear Niño response observed in simulations of nuclear war scenarios. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	4
41	The International Soil Moisture Network: serving Earth system science for over a decade		4
40	The Potential Impact of Nuclear Conflict on Ocean Acidification. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086246	4.9	3
39	How well does the European Centre for Medium-Range Weather Forecasting Interim Reanalysis represent the surface air temperature in Cuban weather stations?. <i>International Journal of Climatology</i> , 2018 , 38, 1216-1233	3.5	3
38	Baffin Island snow extent sensitivity: Insights from a regional climate model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 3506-3519	4.4	3
37	Correction to Sulfuric acid deposition from stratospheric geoengineering with sulfate aerosols. <i>Journal of Geophysical Research</i> , 2010 , 115,		3
36	Preface to special section: GEWEX Continental-Scale International Project (GCIP)-3. <i>Journal of Geophysical Research</i> , 2003 , 108,		3
35	CULTURE: Bob Dylan and Weather Imagery. <i>Bulletin of the American Meteorological Society</i> , 2005 , 86, 483-487	6.1	3
34	Can stratospheric geoengineering alleviate global warming-induced changes in deciduous fruit cultivation? The case of Himachal Pradesh (India). <i>Climatic Change</i> , 2020 , 162, 1323-1343	4.5	3
33	Comment on "Climate Impact of a Regional Nuclear Weapon Exchange: An Improved Assessment Based on Detailed Source Calculations" by Reisner et al.. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019 , 124, 12953-12958	4.4	3
32	The Sky in Edvard Munch's The Scream. <i>Bulletin of the American Meteorological Society</i> , 2018 , 99, 1377-1390		3
31	Reply to Comment on "The Latest on Volcanic Eruptions and Climate" <i>Eos</i> , 2014 , 95, 353-353	1.5	2
30	Partnering with Cuba: weather extremes. <i>Science</i> , 2014 , 345, 278	33.3	2
29	Surface Atmospheric Circulation Over Europe Following Major Tropical Volcanic Eruptions, 1780-1995. <i>Geophysical Monograph Series</i> , 2003 , 273-281	1.1	2
28	Dendroclimatological Evidence for Major Volcanic Events of the Past Two Millennia. <i>Geophysical Monograph Series</i> , 2003 , 255-261	1.1	2

27	Volcanic climate impacts can act as ultimate and proximate causes of Chinese dynastic collapse. <i>Communications Earth & Environment</i> , 2021 , 2,	6.1	2
26	North Atlantic Oscillation response in GeoMIP experiments G6solar and G6sulfur: why detailed modelling is needed for understanding regional implications of solar radiation management		2
25	Stratospheric sulfate geoengineering enhances terrestrial gross primary productivity		2
24	A new Geoengineering Model Intercomparison Project (GeoMIP) experiment designed for climate and chemistry models		2
23	Understanding How Climate Engineering Can Offset Climate Change. <i>Eos</i> , 2017 ,	1.5	2
22	The Model Intercomparison Project on the climatic response to Volcanic forcing (VolMIP): Experimental design and forcing input data 2016 ,		2
21	Effects of forcing differences and initial conditions on inter-model agreement in the VolMIP volc-pinatubo-full experiment. <i>Geoscientific Model Development</i> , 2022 , 15, 2265-2292	6.3	2
20	Impacts of Stratospheric Sulfate Geoengineering on Tropospheric Ozone 2017 ,		1
19	Ecological, Agricultural, and Health Impacts of Solar Geoengineering 2018 , 291-303		1
18	New START, Eyjafjallajökull, and Nuclear Winter. <i>Eos</i> , 2010 , 91, 444	1.5	1
17	The Laki Eruption and Observed Dendroclimatic Effects of Volcanism. <i>Geophysical Monograph Series</i> , 2003 , 263-272	1.1	1
16	Volcanoes and Climate 1989 , 309-314		1
15	Did Smoke From City Fires in World War II Cause Global Cooling?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018 , 123, 10,314	4.4	1
14	Extreme Ozone Loss Following Nuclear War Results in Enhanced Surface Ultraviolet Radiation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035079	4.4	1
13	Ethics of Nuclear Winter and Climate Intervention (Geoengineering) Research and of Making Policy Recommendations		0
12	Future Geoengineering Scenarios: Balancing Policy Relevance and Scientific Significance. <i>Bulletin of the American Meteorological Society</i> , 2022 , 103, E817-E820	6.1	0
11	Solar geoengineering could redistribute malaria risk in developing countries.. <i>Nature Communications</i> , 2022 , 13, 2150	17.4	0
10	Making Your Own Luck: A Meaningful Career From Being Open to Opportunities. <i>Perspectives of Earth and Space Scientists</i> , 2020 , 1, e2020CN000133	0.1	

- 9 Reply to comment by Cole-Dai et al. on "Climatic impact of the long-lasting Laki eruption: Inapplicability of mass-independent sulfur isotope composition measurements" *Journal of Geophysical Research D: Atmospheres*, **2014**, 119, 6636-6637 4.4
- 8 Parentheses Are (Are Not) for References and Clarification (Saving Space). *Eos*, **2010**, 91, 419 1.5
- 7 Nuclear power challenges and alternatives. *Physics Today*, **2007**, 60, 16-16 0.9
- 6 Nuclear power's costs and perils. *Physics Today*, **2007**, 60, 14-14 0.9
- 5 A model study of the effect of Pinatubo volcanic aerosols on stratospheric temperatures 152-178
- 4 The AMS Congressional Science Fellowship Program: Why You Should Consider It. *Bulletin of the American Meteorological Society*, **2001**, 82, 315-317 6.1
- 3 Global Warming: State of the Science. *Energy and Environment*, **1998**, 9, 609-616 2.4
- 2 Volcanoes: Role in Climate **2018**,
- 1 Climatic Consequences and Agricultural Impacts of Nuclear Conflicts 328-340