

Alan Robock

List of Publications by Year in descending order

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265
papers

23,971
citations

6250

80
h-index

9090

144
g-index

299
all docs

299
docs citations

299
times ranked

14911
citing authors

#	ARTICLE	IF	CITATIONS
1	Volcanic eruptions and climate. <i>Reviews of Geophysics</i> , 2000, 38, 191-219.	9.0	2,008
2	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, .	3.3	985
3	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.	1.9	864
4	The Global Soil Moisture Data Bank. <i>Bulletin of the American Meteorological Society</i> , 2000, 81, 1281-1299.	1.7	719
5	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, .	3.3	574
6	Temporal and spatial scales of observed soil moisture variations in the extratropics. <i>Journal of Geophysical Research</i> , 2000, 105, 11865-11877.	3.3	455
7	Global Cooling After the Eruption of Mount Pinatubo: A Test of Climate Feedback by Water Vapor. <i>Science</i> , 2002, 296, 727-730.	6.0	424
8	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, .	3.3	397
9	The Volcanic Signal in Surface Temperature Observations. <i>Journal of Climate</i> , 1995, 8, 1086-1103.	1.2	369
10	Real-time and retrospective forcing in the North American Land Data Assimilation System (NLDAS) project. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	357
11	Global Warming and Northern Hemisphere Sea Ice Extent. <i>Science</i> , 1999, 286, 1934-1937.	6.0	345
12	Regional climate responses to geoengineering with tropical and Arctic SO ₂ injections. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	339
13	Radiative forcing from the 1991 Mount Pinatubo volcanic eruption. <i>Journal of Geophysical Research</i> , 1998, 103, 13837-13857.	3.3	328
14	The Geoengineering Model Intercomparison Project (GeoMIP). <i>Atmospheric Science Letters</i> , 2011, 12, 162-167.	0.8	314
15	Scales of temporal and spatial variability of midlatitude soil moisture. <i>Journal of Geophysical Research</i> , 1996, 101, 7163-7174.	3.3	292
16	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.	3.3	279
17	Benefits, risks, and costs of stratospheric geoengineering. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	275
18	Winter warming from large volcanic eruptions. <i>Geophysical Research Letters</i> , 1992, 19, 2405-2408.	1.5	259

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19	An overview of geoengineering of climate using stratospheric sulphate aerosols. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 4007-4037.	1.6	251
20	Validation of the Snow Submodel of the Biosphere-Atmosphere Transfer Scheme with Russian Snow Cover and Meteorological Observational Data. Journal of Climate, 1997, 10, 353-373.	1.2	250
21	Coupled Model Intercomparison Project 5 (CMIP5) simulations of climate following volcanic eruptions. Journal of Geophysical Research, 2012, 117, .	3.3	231
22	Incorporating water table dynamics in climate modeling: 1. Water table observations and equilibrium water table simulations. Journal of Geophysical Research, 2007, 112, .	3.3	227
23	Temperature and precipitation history of the Arctic. Quaternary Science Reviews, 2010, 29, 1679-1715.	1.4	226
24	Climate model response from the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2013, 118, 8320-8332.	1.2	226
25	Evidence of enhanced precipitation due to irrigation over the Great Plains of the United States. Journal of Geophysical Research, 2010, 115, .	3.3	214
26	Arctic Oscillation response to the 1991 Mount Pinatubo eruption: Effects of volcanic aerosols and ozone depletion. Journal of Geophysical Research, 2002, 107, ACL 28-1.	3.3	210
27	Large Volcanic Aerosol Load in the Stratosphere Linked to Asian Monsoon Transport. Science, 2012, 337, 78-81.	6.0	208
28	The hydrological impact of geoengineering in the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2013, 118, 11,036.	1.2	202
29	Arctic Oscillation response to volcanic eruptions in the IPCC AR4 climate models. Journal of Geophysical Research, 2006, 111, .	3.3	199
30	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. Journal of Geophysical Research, 2003, 108, .	3.3	196
31	Climate model simulation of winter warming and summer cooling following the 1991 Mount Pinatubo volcanic eruption. Journal of Geophysical Research, 1999, 104, 19039-19055.	3.3	181
32	The Seasonal Cycle of Snow Cover, Sea Ice and Surface Albedo. Monthly Weather Review, 1980, 108, 267-285.	0.5	179
33	20 reasons why geoengineering may be a bad idea. Bulletin of the Atomic Scientists, 2008, 64, 14-59.	0.2	179
34	Use of Midlatitude Soil Moisture and Meteorological Observations to Validate Soil Moisture Simulations with Biosphere and Bucket Models. Journal of Climate, 1995, 8, 15-35.	1.2	177
35	Pinatubo eruption winter climate effects: model versus observations. Climate Dynamics, 1993, 9, 81-93.	1.7	176
36	Incorporating water table dynamics in climate modeling: 2. Formulation, validation, and soil moisture simulation. Journal of Geophysical Research, 2007, 112, .	3.3	164

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37	20 reasons why geoengineering may be a bad idea. Bulletin of the Atomic Scientists, 2008, 64, 14-18.	0.2	159
38	Black carbon lofts wildfire smoke high into the stratosphere to form a persistent plume. Science, 2019, 365, 587-590.	6.0	159
39	Evaluation of the North American Land Data Assimilation System over the southern Great Plains during the warm season. Journal of Geophysical Research, 2003, 108, .	3.3	157
40	Climatic response to high-latitude volcanic eruptions. Journal of Geophysical Research, 2005, 110, .	3.3	157
41	Stratospheric ozone response to sulfate geoengineering: Results from the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2014, 119, 2629-2653.	1.2	151
42	Effects of Frozen Soil on Soil Temperature, Spring Infiltration, and Runoff: Results from the PILPS 2(d) Experiment at Valdai, Russia. Journal of Hydrometeorology, 2003, 4, 334-351.	0.7	150
43	Simulations of a Boreal Grassland Hydrology at Valdai, Russia: PILPS Phase 2(d). Monthly Weather Review, 2000, 128, 301-321.	0.5	148
44	High-latitude eruptions cast shadow over the African monsoon and the flow of the Nile. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	144
45	Streamflow and water balance intercomparisons of four land surface models in the North American Land Data Assimilation System project. Journal of Geophysical Research, 2004, 109, .	3.3	141
46	The Geoengineering Model Intercomparison Project Phase 6 (GeoMIP6): simulation design and preliminary results. Geoscientific Model Development, 2015, 8, 3379-3392.	1.3	140
47	The Model Intercomparison Project on the climatic response to Volcanic forcing (VolMIP): experimental design and forcing input data for CMIP6. Geoscientific Model Development, 2016, 9, 2701-2719.	1.3	138
48	Validation of the North American Land Data Assimilation System (NLDAS) retrospective forcing over the southern Great Plains. Journal of Geophysical Research, 2003, 108, .	3.3	136
49	Did the Toba volcanic eruption of ~ 74 ka B.P. produce widespread glaciation?. Journal of Geophysical Research, 2009, 114, .	3.3	136
50	Regional Climate Simulations over North America: Interaction of Local Processes with Improved Large-Scale Flow. Journal of Climate, 2005, 18, 1227-1246.	1.2	135
51	Evaluation of the AMIP soil moisture simulations. Global and Planetary Change, 1998, 19, 181-208.	1.6	132
52	Tropical explosive volcanic eruptions can trigger El Niño by cooling tropical Africa. Nature Communications, 2017, 8, 778.	5.8	132
53	Ice cores as an index of global volcanism from 1850 to the present. Journal of Geophysical Research, 1995, 100, 11549.	3.3	130
54	The impact of abrupt suspension of solar radiation management (termination effect) in experiment G2 of the Geoengineering Model Intercomparison Project (GeoMIP). Journal of Geophysical Research D: Atmospheres, 2013, 118, 9743-9752.	1.2	129

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55	Land surface conditions over Eurasia and Indian summer monsoon rainfall. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	127
56	Incorporating water table dynamics in climate modeling: 3. Simulated groundwater influence on coupled land-atmosphere variability. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	125
57	Climatic consequences of regional nuclear conflicts. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2003-2012.	1.9	124
58	Global warming in the context of the Little Ice Age. <i>Journal of Geophysical Research</i> , 1999, 104, 19057-19070.	3.3	123
59	Tropospheric volcanic aerosol. <i>Geophysical Monograph Series</i> , 2003, , 189-212.	0.1	121
60	Nuclear winter revisited with a modern climate model and current nuclear arsenals: Still catastrophic consequences. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	120
61	Evaluation of Global Soil Wetness Project Soil Moisture Simulations. <i>Journal of the Meteorological Society of Japan</i> , 1999, 77, 183-198.	0.7	118
62	PINATUBO ERUPTION: The Climatic Aftermath. <i>Science</i> , 2002, 295, 1242-1244.	6.0	116
63	The International Soil Moisture Network: serving Earth system science for over a decade. <i>Hydrology and Earth System Sciences</i> , 2021, 25, 5749-5804.	1.9	116
64	A Test for Geoengineering?. <i>Science</i> , 2010, 327, 530-531.	6.0	115
65	Modeling the distribution of the volcanic aerosol cloud from the 1783-1784 Laki eruption. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	112
66	Satellite remote sensing of soil moisture in Illinois, United States. <i>Journal of Geophysical Research</i> , 1999, 104, 4145-4168.	3.3	110
67	Impacts of land cover data quality on regional climate simulations. <i>International Journal of Climatology</i> , 2010, 30, 1942-1953.	1.5	108
68	Evaluation of Reanalysis Soil Moisture Simulations Using Updated Chinese Soil Moisture Observations. <i>Journal of Hydrometeorology</i> , 2005, 6, 180-193.	0.7	106
69	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.	3.6	105
70	Ice and Snow Feedbacks and the Latitudinal and Seasonal Distribution of Climate Sensitivity. <i>Journals of the Atmospheric Sciences</i> , 1983, 40, 986-997.	0.6	104
71	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.	1.7	103
72	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.	2.3	101

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73	A multi-model assessment of regional climate disparities caused by solar geoengineering. <i>Environmental Research Letters</i> , 2014, 9, 074013.	2.2	101
74	Internally and Externally Caused Climate Change. <i>Journals of the Atmospheric Sciences</i> , 1978, 35, 1111-1122.	0.6	99
75	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, .	3.3	99
76	Land surface model spin-up behavior in the North American Land Data Assimilation System (NLDAS). <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	96
77	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, .	3.3	91
78	Ocean response to volcanic eruptions in coupled climate model intercomparison project 5 simulations. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 5622-5637.	1.0	90
79	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.	1.9	89
80	Potentially dangerous consequences for biodiversity of solar geoengineering implementation and termination. <i>Nature Ecology and Evolution</i> , 2018, 2, 475-482.	3.4	89
81	Climate effects of high-latitude volcanic eruptions: Role of the time of year. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	88
82	Relationships between tropospheric water vapor and surface temperature as observed by radiosondes. <i>Geophysical Research Letters</i> , 1992, 19, 1839-1842.	1.5	87
83	Allergenic pollen season variations in the past two decades under changing climate in the United States. <i>Global Change Biology</i> , 2015, 21, 1581-1589.	4.2	84
84	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.	1.9	82
85	Radiative impact of the Mount Pinatubo volcanic eruption: Lower stratospheric response. <i>Journal of Geophysical Research</i> , 2000, 105, 24409-24429.	3.3	80
86	Use of general circulation model output in the creation of climate change scenarios for impact analysis. <i>Climatic Change</i> , 1993, 23, 293-335.	1.7	79
87	Studying geoengineering with natural and anthropogenic analogs. <i>Climatic Change</i> , 2013, 121, 445-458.	1.7	76
88	A multimodel examination of climate extremes in an idealized geoengineering experiment. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3900-3923.	1.2	75
89	Anticipating future Volcanic Explosivity Index (VEI) 7 eruptions and their chilling impacts. , 2018, 14, 572-603.		75
90	Sulfuric acid deposition from stratospheric geoengineering with sulfate aerosols. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	74

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91	Multidecadal global cooling and unprecedented ozone loss following a regional nuclear conflict. <i>Earth's Future</i> , 2014, 2, 161-176.	2.4	74
92	The Volcanic Signal in Goddard Institute for Space Studies Three-Dimensional Model Simulations. <i>Journal of Climate</i> , 1994, 7, 44-55.	1.2	73
93	Atmospheric volcanic loading derived from bipolar ice cores: Accounting for the spatial distribution of volcanic deposition. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	72
94	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.	3.3	71
95	Local Nuclear War, Global Suffering. <i>Scientific American</i> , 2010, 302, 74-81.	1.0	71
96	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, .	3.3	71
97	Surface cooling due to forest fire smoke. <i>Journal of Geophysical Research</i> , 1991, 96, 20869-20878.	3.3	69
98	Stratospheric sulfate geoengineering could enhance the terrestrial photosynthesis rate. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 1479-1489.	1.9	66
99	Environmental consequences of nuclear war. <i>Physics Today</i> , 2008, 61, 37-42.	0.3	63
100	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.	1.2	63
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.	3.3	63
102	The Campanian Ignimbrite Eruption, Heinrich Event 4, and palaeolithic change in Europe: A high-resolution investigation. <i>Geophysical Monograph Series</i> , 2003, , 301-325.	0.1	62
103	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.	1.5	61
104	18-Year Land-Surface Hydrology Model Simulations for a Midlatitude Grassland Catchment in Valdai, Russia. <i>Monthly Weather Review</i> , 1997, 125, 3279-3296.	0.5	58
105	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.	0.1	57
106	Emissions from volcanoes. <i>Advances in Global Change Research</i> , 2004, , 269-303.	1.6	57
107	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.	1.2	57
108	Temperature trends at the surface and in the troposphere. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	56

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109	A New International Network for in Situ Soil Moisture Data. <i>Eos</i> , 2011, 92, 141-142.	0.1	54
110	Snow and ice feedbacks prolong effects of nuclear winter. <i>Nature</i> , 1984, 310, 667-670.	13.7	53
111	Optimal design of surface networks for observation of soil moisture. <i>Journal of Geophysical Research</i> , 1999, 104, 19743-19749.	3.3	53
112	Forty-five years of observed soil moisture in the Ukraine: No summer desiccation (yet). <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	53
113	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.	1.2	53
114	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.	1.2	52
115	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.	0.8	51
116	Consequences of Regional-Scale Nuclear Conflicts. <i>Science</i> , 2007, 315, 1224-1225.	6.0	51
117	A new Geoengineering Model Intercomparison Project (GeoMIP) experiment designed for climate and chemistry models. <i>Geoscientific Model Development</i> , 2015, 8, 43-49.	1.3	51
118	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.	1.5	50
119	Reaching 1.5 and 2.0°C global surface temperature targets using stratospheric aerosol geoengineering. <i>Earth System Dynamics</i> , 2020, 11, 579-601.	2.7	50
120	Southern Hemisphere atmospheric circulation effects of the 1991 Mount Pinatubo eruption. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	49
121	The volcanic record in ice cores for the past 2000 years. , 1996, , 533-546.		49
122	Whither Geoengineering?. <i>Science</i> , 2008, 320, 1166-1167.	6.0	48
123	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, .	3.3	46
124	Cooling following large volcanic eruptions corrected for the effect of diffuse radiation on tree rings. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	45
125	Simulation and observations of stratospheric aerosols from the 2009 Sarychev volcanic eruption. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	45
126	An overview of the Geoengineering Model Intercomparison Project (GeoMIP). <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 13,103.	1.2	45

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127	Arctic sea ice and atmospheric circulation under the GeoMIP G1 scenario. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 567-583.	1.2	45
128	Resilience to global food supply catastrophes. <i>Environment Systems and Decisions</i> , 2015, 35, 301-313.	1.9	44
129	Diurnal asymmetry of climatic response to increased CO ₂ and aerosols: Forcings and feedbacks. <i>Journal of Geophysical Research</i> , 1995, 100, 26211.	3.3	43
130	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.	1.2	43
131	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.	1.2	43
132	Rapidly expanding nuclear arsenals in Pakistan and India portend regional and global catastrophe. <i>Science Advances</i> , 2019, 5, eaay5478.	4.7	43
133	Self-assured destruction: The climate impacts of nuclear war. <i>Bulletin of the Atomic Scientists</i> , 2012, 68, 66-74.	0.2	42
134	Impacts of stratospheric sulfate geoengineering on tropospheric ozone. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 11913-11928.	1.9	42
135	Solar dimming and CO ₂ effects on soil moisture trends. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	41
136	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.	1.9	41
137	El Chichón eruption: The dust cloud of the century. <i>Nature</i> , 1983, 301, 373-374.	13.7	40
138	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, .	3.3	40
139	Negligible climatic effects from the 2008 Okmok and Kasatochi volcanic eruptions. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	39
140	Petrological and volcanological constraints on volcanic sulfur emissions to the atmosphere. <i>Geophysical Monograph Series</i> , 2003, , 11-40.	0.1	37
141	Impacts of a nuclear war in South Asia on rice production in Mainland China. <i>Climatic Change</i> , 2013, 116, 357-372.	1.7	37
142	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.	1.2	37
143	100 Years of Progress in Understanding the Stratosphere and Mesosphere. <i>Meteorological Monographs</i> , 2019, 59, 27.1-27.62.	5.0	37
144	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.	1.2	36

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145	Spatial Variation of Soil Moisture in China: Geostatistical Characterization.. Journal of the Meteorological Society of Japan, 2001, 79, 555-574.	0.7	36
146	Lidar validation of SAGE II aerosol measurements after the 1991 Mount Pinatubo eruption. Journal of Geophysical Research, 2002, 107, ACL 3-1.	3.3	35
147	Title is missing!. Climatic Change, 1999, 42, 663-675.	1.7	34
148	Soil moisture simulations in revised AMIP models. Journal of Geophysical Research, 2000, 105, 26635-26644.	3.3	34
149	Potential effects of global climatic change on the phenology and yield of maize in venezuela. Climatic Change, 1995, 29, 189-211.	1.7	33
150	Trends in moments of climatic indices. Geophysical Research Letters, 2002, 29, 14-1.	1.5	33
151	Modelling land cover change impact on the summer climate of the Marmara Region, Turkey. International Journal of Global Warming, 2011, 3, 194.	0.2	33
152	Impacts of a nuclear war in South Asia on soybean and maize production in the Midwest United States. Climatic Change, 2013, 116, 373-387.	1.7	33
153	Influences of soil moisture and vegetation on convective precipitation forecasts over the United States Great Plains. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9338-9358.	1.2	33
154	Model physics and chemistry causing intermodel disagreement within the VolMIP-Tambora Interactive Stratospheric Aerosol ensemble. Atmospheric Chemistry and Physics, 2021, 21, 3317-3343.	1.9	33
155	Sensitivity of stratospheric geoengineering with black carbon to aerosol size and altitude of injection. Journal of Geophysical Research, 2012, 117, .	3.3	32
156	Climatic impact of the long-lasting 1783 Laki eruption: Inapplicability of mass-independent sulfur isotopic composition measurements. Journal of Geophysical Research, 2012, 117, .	3.3	32
157	Modeling the 1783-1784 Laki Eruption in Iceland: 2. Climate Impacts. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6770-6790.	1.2	32
158	Stratospheric Aerosol Geoengineering. Issues in Environmental Science and Technology, 2014, , 162-185.	0.4	32
159	Volcanic effects on climate: recent advances and future avenues. Bulletin of Volcanology, 2022, 84, .	1.1	32
160	The number and magnitude of large explosive volcanic eruptions between 904 and 1865 A.D.: Quantitative evidence from a new South Pole ice core. Geophysical Monograph Series, 2003, , 165-176.	0.1	30
161	Response to Comments on "Large Volcanic Aerosol Load in the Stratosphere Linked to Asian Monsoon Transport". Science, 2013, 339, 647-647.	6.0	29
162	Decadal reduction of Chinese agriculture after a regional nuclear war. Earth's Future, 2015, 3, 37-48.	2.4	28

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163	Robust winter warming over Eurasia under stratospheric sulfate geoengineering – the role of stratospheric dynamics. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6985-6997.	1.9	28
164	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.	0.1	27
165	Tropical volcanism enhanced the East Asian summer monsoon during the last millennium. <i>Nature Communications</i> , 2022, 13, .	5.8	27
166	The Volcanic Contribution to Climate Change of the Past 100 Years. <i>Developments in Atmospheric Science</i> , 1991, , 429-443.	0.3	26
167	Albedo enhancement by stratospheric sulfur injections: More research needed. <i>Earth's Future</i> , 2016, 4, 644-648.	2.4	26
168	Detection of volcanic, CO ₂ , and ENSO signals in surface air temperature. <i>Advances in Space Research</i> , 1985, 5, 53-56.	1.2	25
169	Spatial and temporal variability of the stratospheric aerosol cloud produced by the 1991 Mount Pinatubo eruption. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	25
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