

Andrew A Lacis

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67 papers	11,026 citations	37 h-index	75 g-index
75 ext. papers	12,053 ext. citations	11.4 avg, IF	5.46 L-index

#	Paper	IF	Citations
67	Efficacy of climate forcings. <i>Journal of Geophysical Research</i> , 2005 , 110,		947
66	Efficient Three-Dimensional Global Models for Climate Studies: Models I and II. <i>Monthly Weather Review</i> , 1983 , 111, 609-662	2.4	848
65	The influence on climate forcing of mineral aerosols from disturbed soils. <i>Nature</i> , 1996 , 380, 419-422	50.4	799
64	Calculation of radiative fluxes from the surface to top of atmosphere based on ISCCP and other global data sets: Refinements of the radiative transfer model and the input data. <i>Journal of Geophysical Research</i> , 2004 , 109,		791
63	Climate impact of increasing atmospheric carbon dioxide. <i>Science</i> , 1981 , 213, 957-66	33.3	726
62	Global warming in the twenty-first century: an alternative scenario. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 9875-80	11.5	701
61	Global climate changes as forecast by Goddard Institute for Space Studies three-dimensional model. <i>Journal of Geophysical Research</i> , 1988 , 93, 9341		657
60	Earth's energy imbalance: confirmation and implications. <i>Science</i> , 2005 , 308, 1431-5	33.3	594
59	Near-Global Survey of Effective Droplet Radii in Liquid Water Clouds Using ISCCP Data. <i>Journal of Climate</i> , 1994 , 7, 465-497	4.4	436
58	Potential climate impact of Mount Pinatubo eruption. <i>Geophysical Research Letters</i> , 1992 , 19, 215-218	4.9	305
57	Atmospheric CO ₂ : principal control knob governing Earth's temperature. <i>Science</i> , 2010 , 330, 356-9	33.3	282
56	Climate forcings in Goddard Institute for Space Studies SI2000 simulations. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 2-1		270
55	Sun and dust versus greenhouse gases: an assessment of their relative roles in global climate change. <i>Nature</i> , 1990 , 346, 713-719	50.4	254
54	Climate response times: dependence on climate sensitivity and ocean mixing. <i>Science</i> , 1985 , 229, 857-9	33.3	232
53	Climate simulations for 1880-2003 with GISS modelE. <i>Climate Dynamics</i> , 2007 , 29, 661-696	4.2	209
52	Climate forcing by stratospheric aerosols. <i>Geophysical Research Letters</i> , 1992 , 19, 1607-1610	4.9	194
51	Climate-chemical interactions and effects of changing atmospheric trace gases. <i>Reviews of Geophysics</i> , 1987 , 25, 1441	23.1	189

50	Long-term satellite record reveals likely recent aerosol trend. <i>Science</i> , 2007 , 315, 1543	33.3	187
49	Global atmospheric black carbon inferred from AERONET. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 6319-24	11.5	182
48	Dangerous human-made interference with climate: a GISS modelE study. <i>Atmospheric Chemistry and Physics</i> , 2007 , 7, 2287-2312	6.8	173
47	Greenhouse effect of trace gases, 1970-1980. <i>Geophysical Research Letters</i> , 1981 , 8, 1035-1038	4.9	159
46	Possible role of dust-induced regional warming in abrupt climate change during the last glacial period. <i>Nature</i> , 1996 , 384, 447-449	50.4	139
45	Forcings and chaos in interannual to decadal climate change. <i>Journal of Geophysical Research</i> , 1997 , 102, 25679-25720		138
44	The GISS Global Climate-Middle Atmosphere Model. Part I: Model Structure and Climatology. <i>Journals of the Atmospheric Sciences</i> , 1988 , 45, 329-370	2.1	137
43	Young people's burden: requirement of negative CO ₂ emissions. <i>Earth System Dynamics</i> , 2017 , 8, 577-616	4.8	127
42	Past, present, and future of global aerosol climatologies derived from satellite observations: A perspective. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2007 , 106, 325-347	2.1	106
41	On the variability of the net longwave radiation at the ocean surface. <i>Reviews of Geophysics</i> , 1984 , 22, 177	23.1	103
40	GISS-E2.1: Configurations and Climatology. <i>Journal of Advances in Modeling Earth Systems</i> , 2020 , 12, e2019MS0018025	19.1	98
39	Global, Seasonal Cloud Variations from Satellite Radiance Measurements. Part II. Cloud Properties and Radiative Effects. <i>Journal of Climate</i> , 1990 , 3, 1204-1253	4.4	93
38	Global, Seasonal Cloud Variations from Satellite Radiance Measurements. Part I: Sensitivity of Analysis. <i>Journal of Climate</i> , 1989 , 2, 419-458	4.4	88
37	Absorption within Inhomogeneous Clouds and Its Parameterization in General Circulation Models. <i>Journals of the Atmospheric Sciences</i> , 2000 , 57, 700-714	2.1	76
36	Global Two-Channel AVHRR Retrievals of Aerosol Properties over the Ocean for the Period of NOAA-9 Observations and Preliminary Retrievals Using NOAA-7 and NOAA-11 Data. <i>Journals of the Atmospheric Sciences</i> , 2002 , 59, 262-278	2.1	71
35	Toward unified satellite climatology of aerosol properties.. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010 , 111, 540-552	2.1	67
34	Simulations of the effect of a warmer climate on atmospheric humidity. <i>Nature</i> , 1991 , 351, 382-385	50.4	61
33	Scattering and radiative properties of semi-external versus external mixtures of different aerosol types. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2004 , 88, 139-147	2.1	58

32	Remote Sensing of Atmospheric Aerosols and Trace Gases by Means of Multifilter Rotating Shadowband Radiometer. Part I: Retrieval Algorithm. <i>Journals of the Atmospheric Sciences</i> , 2002 , 59, 524-543	2.1	50
31	Using single-scattering albedo spectral curvature to characterize East Asian aerosol mixtures. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015 , 120, 2037-2052	4.4	40
30	The abundance and distribution of water vapor in the Jovian troposphere as inferred from Voyager IRIS observations. <i>Astrophysical Journal</i> , 1992 , 388, 648	4.7	34
29	The effect of black carbon on scattering and absorption of solar radiation by cloud droplets. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2002 , 74, 195-204	2.1	31
28	Application of spectral analysis techniques in the intercomparison of aerosol data: 1. An EOF approach to analyze the spatial-temporal variability of aerosol optical depth using multiple remote sensing data sets. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 8640-8648	4.4	30
27	Application of spectral analysis techniques in the intercomparison of aerosol data. Part II: Using maximum covariance analysis to effectively compare spatiotemporal variability of satellite and AERONET measured aerosol optical depth. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 153-166	4.4	23
26	The role of the stratosphere in climate change. <i>Surveys in Geophysics</i> , 1993 , 14, 133-165	7.6	23
25	Aerosol retrievals from channel-1 and -2 AVHRR radiances: Long-term trends updated and revisited. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012 , 113, 1974-1980	2.1	22
24	Remote Sensing of Atmospheric Aerosols and Trace Gases by Means of Multifilter Rotating Shadowband Radiometer. Part II: Climatological Applications. <i>Journals of the Atmospheric Sciences</i> , 2002 , 59, 544-566	2.1	22
23	GLOBAL WARMING:Global Climate Data and Models: A Reconciliation 1998 , 281, 930-932		22
22	Application of spectral analysis techniques in the intercomparison of aerosol data: Part III. Using combined PCA to compare spatiotemporal variability of MODIS, MISR, and OMI aerosol optical depth. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 4017-4042	4.4	20
21	Fast atmosphere-ocean model runs with large changes in CO ₂ . <i>Geophysical Research Letters</i> , 2013 , 40, 5787-5792	4.9	20
20	A new three-parameter cloud/aerosol particle size distribution based on the generalized inverse Gaussian density function. <i>Applied Mathematics and Computation</i> , 2000 , 116, 153-165	2.7	20
19	GCM Simulations of Volcanic Aerosol Forcing. Part I: Climate Changes Induced by Steady-State Perturbations. <i>Journal of Climate</i> , 1993 , 6, 1719-1742	4.4	20
18	Scaling Properties of Aerosol Optical Thickness Retrieved from Ground-Based Measurements. <i>Journals of the Atmospheric Sciences</i> , 2004 , 61, 1024-1039	2.1	17
17	Ortho-para-hydrogen equilibration on Jupiter. <i>Astrophysical Journal</i> , 1992 , 393, 357	4.7	16
16	GISS Model E2.2: A Climate Model Optimized for the Middle AtmosphereModel Structure, Climatology, Variability, and Climate Sensitivity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD032204	4.4	16
15	Reducing multisensor satellite monthly mean aerosol optical depth uncertainty: 1. Objective assessment of current AERONET locations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016 , 121, 13609-13627	4.4	15

14	Potential effects of cloud optical thickness on climate warming. <i>Nature</i> , 1993 , 366, 670-672	50.4	14
13	Wonderland climate model. <i>Journal of Geophysical Research</i> , 1997 , 102, 6823-6830		13
12	Manifestations of morphology-dependent resonances in Mie scattering matrices. <i>Applied Mathematics and Computation</i> , 2000 , 116, 167-179	2.7	13
11	CMIP6 Historical Simulations (1850–2014) With GISS-E2.1. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2019MS002034	7.1	12
10	Revisiting AVHRR tropospheric aerosol trends using principal component analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 3309-3320	4.4	8
9	Synergy of Satellite- and Ground-Based Aerosol Optical Depth Measurements Using an Ensemble Kalman Filter Approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020 , 125, e2019JD031884	4.4	6
8	Spectral Signature of the Biosphere: NISTAR Finds It in Our Solar System From the Lagrangian L-1 Point. <i>Geophysical Research Letters</i> , 2019 , 46, 10679-10686	4.9	5
7	Reducing Multi-sensor Monthly Mean Aerosol Optical Depth Uncertainty Part II: Optimal Locations for Potential Ground Observation Deployments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017 , Volume 122, 3920-3928	4.4	3
6	Retrieval of volcanic and man-made stratospheric aerosols from orbital polarimetric measurements. <i>Optics Express</i> , 2019 , 27, A158-A170	3.3	3
5	Sun and water in the greenhouse. <i>Nature</i> , 1991 , 349, 467-467	50.4	2
4	An Intercomparison of the Spatiotemporal Variability of Satellite- and Ground-Based Cloud Datasets Using Spectral Analysis Techniques. <i>Journal of Climate</i> , 2015 , 28, 5716-5736	4.4	1
3	Sea-level effects due to long-term climate change as estimated from global climate models. <i>Geophysical Journal International</i> , 1986 , 87, 117-118	2.6	
2	Reply to Rasool. <i>Climatic Change</i> , 1983 , 5, 203-204	4.5	
1	An Efficient and Accurate Algorithm for Computing Grid-Averaged Solar Fluxes for Horizontally Inhomogeneous Clouds. <i>Journals of the Atmospheric Sciences</i> , 2021 , 78, 385-398	2.1	