

Andrew A Lacis

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8615304/publications.pdf>

Version: 2024-02-01

73
papers

13,468
citations

76326

40
h-index

91884

69
g-index

75
all docs

75
docs citations

75
times ranked

10096
citing authors

#	ARTICLE	IF	CITATIONS
1	Efficacy of climate forcings. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	1,104
2	Efficient Three-Dimensional Global Models for Climate Studies: Models I and II. <i>Monthly Weather Review</i> , 1983, 111, 609-662.	1.4	1,022
3	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, .	3.3	920
4	Climate Impact of Increasing Atmospheric Carbon Dioxide. <i>Science</i> , 1981, 213, 957-966.	12.6	911
5	The influence on climate forcing of mineral aerosols from disturbed soils. <i>Nature</i> , 1996, 380, 419-422.	27.8	909
6	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, 9875-9880.	7.1	872
7	Global climate changes as forecast by Goddard Institute for Space Studies three-dimensional model. <i>Journal of Geophysical Research</i> , 1988, 93, 9341-9364.	3.3	820
8	Earth's Energy Imbalance: Confirmation and Implications. <i>Science</i> , 2005, 308, 1431-1435.	12.6	728
9	Near-Global Survey of Effective Droplet Radii in Liquid Water Clouds Using ISCCP Data. <i>Journal of Climate</i> , 1994, 7, 465-497.	3.2	488
10	Atmospheric CO ₂ : Principal Control Knob Governing Earth's Temperature. <i>Science</i> , 2010, 330, 356-359.	12.6	443
11	Potential climate impact of Mount Pinatubo eruption. <i>Geophysical Research Letters</i> , 1992, 19, 215-218.	4.0	374
12	Climate forcings in Goddard Institute for Space Studies SI2000 simulations. <i>Journal of Geophysical Research</i> , 2002, 107, ACL 2-1.	3.3	302
13	Sun and dust versus greenhouse gases: an assessment of their relative roles in global climate change. <i>Nature</i> , 1990, 346, 713-719.	27.8	297
14	Climate Response Times: Dependence on Climate Sensitivity and Ocean Mixing. <i>Science</i> , 1985, 229, 857-859.	12.6	275
15	GISS-E2.1: Configurations and Climatology. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002025.	3.8	234
16	Climate forcing by stratospheric aerosols. <i>Geophysical Research Letters</i> , 1992, 19, 1607-1610.	4.0	230
17	Climate-chemical interactions and effects of changing atmospheric trace gases. <i>Reviews of Geophysics</i> , 1987, 25, 1441-1482.	23.0	229
18	Climate simulations for 1880-2003 with GISS modelE. <i>Climate Dynamics</i> , 2007, 29, 661-696.	3.8	227

#	ARTICLE	IF	CITATIONS
19	Dangerous human-made interference with climate: a GISS modelE study. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 2287-2312.	4.9	211
20	Long-Term Satellite Record Reveals Likely Recent Aerosol Trend. <i>Science</i> , 2007, 315, 1543-1543.	12.6	206
21	Global atmospheric black carbon inferred from AERONET. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 6319-6324.	7.1	204
22	Greenhouse effect of trace gases, 1970â€”1980. <i>Geophysical Research Letters</i> , 1981, 8, 1035-1038.	4.0	202
23	Young people's burden: requirement of negative CO ₂ emissions. <i>Earth System Dynamics</i> , 2017, 8, 577-616.	7.1	189
24	Forcings and chaos in interannual to decadal climate change. <i>Journal of Geophysical Research</i> , 1997, 102, 25679-25720.	3.3	164
25	Possible role of dust-induced regional warming in abrupt climate change during the last glacial period. <i>Nature</i> , 1996, 384, 447-449.	27.8	163
26	The GISS Global Climate-Middle Atmosphere Model. Part I: Model Structure and Climatology. <i>Journals of the Atmospheric Sciences</i> , 1988, 45, 329-370.	1.7	159
27	On the variability of the net longwave radiation at the ocean surface. <i>Reviews of Geophysics</i> , 1984, 22, 177-193.	23.0	126
28	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.	2.3	117
29	Global, Seasonal Cloud Variations from Satellite Radiance Measurements. Part II. Cloud Properties and Radiative Effects. <i>Journal of Climate</i> , 1990, 3, 1204-1253.	3.2	115
30	Global, Seasonal Cloud Variations from Satellite Radiance Measurements. Part I: Sensitivity of Analysis. <i>Journal of Climate</i> , 1989, 2, 419-458.	3.2	108
31	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.	1.7	85
32	Absorption within Inhomogeneous Clouds and Its Parameterization in General Circulation Models. <i>Journals of the Atmospheric Sciences</i> , 2000, 57, 700-714.	1.7	82
33	Toward unified satellite climatology of aerosol properties.. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2010, 111, 540-552.	2.3	73
34	Simulations of the effect of a warmer climate on atmospheric humidity. <i>Nature</i> , 1991, 351, 382-385.	27.8	71
35	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.	2.3	67
36	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.	1.7	64

#	ARTICLE	IF	CITATIONS
37	Using single-scattering albedo spectral curvature to characterize East Asian aerosol mixtures. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2037-2052.	3.3	50
38	CMIP6 Historical Simulations (1850–2014) With GISS-E2.1. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2019MS002034.	3.8	49
39	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.	3.3	48
40	The abundance and distribution of water vapor in the Jovian troposphere as inferred from Voyager IRIS observations. <i>Astrophysical Journal</i> , 1992, 388, 648.	4.5	40
41	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.	2.3	33
42	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.	1.7	32
43	GISS Model E2.2: A Climate Model Optimized for the Middle Atmosphere—Model Structure, Climatology, Variability, and Climate Sensitivity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD032204.	3.3	32
44	The role of the stratosphere in climate change. <i>Surveys in Geophysics</i> , 1993, 14, 133-165.	4.6	31
45	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.	3.3	29
46	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.	2.2	28
47	GLOBAL WARMING:Global Climate Data and Models: A Reconciliation. , 1998, 281, 930-932.		25
48	GCM Simulations of Volcanic Aerosol Forcing. Part I: Climate Changes Induced by Steady-State Perturbations. <i>Journal of Climate</i> , 1993, 6, 1719-1742.	3.2	24
49	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.	2.3	24
50	Fast atmosphere-ocean model runs with large changes in CO ₂ . <i>Geophysical Research Letters</i> , 2013, 40, 5787-5792.	4.0	24
51	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.	3.3	22
52	Future Climate Change Under SSP Emission Scenarios With GISS-E2.1. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	22
53	Ortho-para-hydrogen equilibration on Jupiter. <i>Astrophysical Journal</i> , 1992, 393, 357.	4.5	21
54	Scaling Properties of Aerosol Optical Thickness Retrieved from Ground-Based Measurements. <i>Journals of the Atmospheric Sciences</i> , 2004, 61, 1024-1039.	1.7	20

#	ARTICLE	IF	CITATIONS
55	Potential effects of cloud optical thickness on climate warming. <i>Nature</i> , 1993, 366, 670-672.	27.8	19
56	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.	3.3	19
57	Manifestations of morphology-dependent resonances in Mie scattering matrices. <i>Applied Mathematics and Computation</i> , 2000, 116, 167-179.	2.2	14
58	Wonderland climate model. <i>Journal of Geophysical Research</i> , 1997, 102, 6823-6830.	3.3	13
59	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.	3.3	11
60	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.	4.0	10
61	Keeping the Sun in proportion. <i>Nature</i> , 1992, 360, 297-297.	27.8	9
62	Revisiting AVHRR tropospheric aerosol trends using principal component analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3309-3320.	3.3	9
63	Reducing multisensor monthly mean aerosol optical depth uncertainty: 2. Optimal locations for potential ground observation deployments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3920-3928.	3.3	5
64	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.	3.2	4
65	Retrieval of volcanic and man-made stratospheric aerosols from orbital polarimetric measurements. <i>Optics Express</i> , 2019, 27, A158.	3.4	3
66	Sun and water in the greenhouse. <i>Nature</i> , 1991, 349, 467-467.	27.8	2
67	Method of Correction for Instrumental Broadening to Determine the Solar Ultraviolet Limb-Darkening.. <i>Astronomical Journal</i> , 1965, 70, 142.	4.7	1
68	Unique NISTAR-Based Climate GCM Diagnostics of the Earth's Planetary Albedo and Spectral Absorption Through Longitudinal Data Slicing. <i>Frontiers in Remote Sensing</i> , 2022, 3, .	3.5	1
69	Unique Observational Constraints on the Seasonal and Longitudinal Variability of the Earth's Planetary Albedo and Cloud Distribution Inferred From EPIC Measurements. <i>Frontiers in Remote Sensing</i> , 2022, 2, .	3.5	1
70	Reply to Rasool. <i>Climatic Change</i> , 1983, 5, 203-204.	3.6	0
71	Sea-level effects due to long-term climate change as estimated from global climate models. <i>Geophysical Journal International</i> , 1986, 87, 117-118.	2.4	0
72	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.	1.7	0

#	ARTICLE	IF	CITATIONS
73	On the inclusion of the hydrogen dimer in the analysis of Voyager IRIS spectra. <i>Astrophysical Journal</i> , 1992, 394, L29.	4.5	0