

Andrew M Vogelmann

List of Publications by Year in descending order

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68
papers

2,626
citations

186254

28
h-index

197805

49
g-index

78
all docs

78
docs citations

78
times ranked

3176
citing authors

#	ARTICLE	IF	CITATIONS
1	ACE-ASIA: Regional Climatic and Atmospheric Chemical Effects of Asian Dust and Pollution. Bulletin of the American Meteorological Society, 2004, 85, 367-380.	3.3	330
2	Thin Liquid Water Clouds: Their Importance and Our Challenge. Bulletin of the American Meteorological Society, 2007, 88, 177-190.	3.3	195
3	A climatologically significant aerosol longwave indirect effect in the Arctic. Nature, 2006, 439, 453-456.	27.8	185
4	Saharan Dust Aerosol Radiative Forcing Measured from Space. Journal of Climate, 2004, 17, 2558-2571.	3.2	119
5	January 2016 extensive summer melt in West Antarctica favoured by strong El Niño. Nature Communications, 2017, 8, 15799.	12.8	116
6	A Comparison of CCM2's BATS Skin Temperature and Surface-Air Temperature with Satellite and Surface Observations. Journal of Climate, 1997, 10, 1505-1524.	3.2	101
7	The Role of Cloud Microphysics Parameterization in the Simulation of Mesoscale Convective System Clouds and Precipitation in the Tropical Western Pacific. Journals of the Atmospheric Sciences, 2013, 70, 1104-1128.	1.7	93
8	Racoro Extended-Term Aircraft Observations of Boundary Layer Clouds. Bulletin of the American Meteorological Society, 2012, 93, 861-878.	3.3	81
9	Modifications to the Water Vapor Continuum in the Microwave Suggested by Ground-Based 150-GHz Observations. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 3326-3337.	6.3	76
10	Influence of relative humidity on aerosol radiative forcing: An ACE-Asia experiment perspective. Journal of Geophysical Research, 2003, 108, .	3.3	74
11	Sensitivity of Idealized Squall-Line Simulations to the Level of Complexity Used in Two-Moment Bulk Microphysics Schemes. Monthly Weather Review, 2012, 140, 1883-1907.	1.4	73
12	Empirical relationship between entrainment rate and microphysics in cumulus clouds. Geophysical Research Letters, 2013, 40, 2333-2338.	4.0	65
13	Clear-sky infrared aerosol radiative forcing at the surface and the top of the atmosphere. Quarterly Journal of the Royal Meteorological Society, 2003, 129, 2927-2947.	2.7	54
14	Observations of large aerosol infrared forcing at the surface. Geophysical Research Letters, 2003, 30, .	4.0	53
15	Observed impacts of vertical velocity on cloud microphysics and implications for aerosol indirect effects. Geophysical Research Letters, 2012, 39, .	4.0	49
16	Enhancements in biologically effective ultraviolet radiation following volcanic eruptions. Nature, 1992, 359, 47-49.	27.8	47
17	AWARE: The Atmospheric Radiation Measurement (ARM) West Antarctic Radiation Experiment. Bulletin of the American Meteorological Society, 2020, 101, E1069-E1091.	3.3	46
18	Relating Cirrus Cloud Properties to Observed Fluxes: A Critical Assessment. Journals of the Atmospheric Sciences, 1995, 52, 4285-4301.	1.7	43

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19	Investigation of Regional and Seasonal Variations in Marine Boundary Layer Cloud Properties from MODIS Observations. <i>Journal of Climate</i> , 2008, 21, 4955-4973.	3.2	42
20	The Large-Eddy Simulation (LES) Atmospheric Radiation Measurement (ARM) Symbiotic Simulation and Observation (LASSO) Activity for Continental Shallow Convection. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E462-E479.	3.3	41
21	RACORO continental boundary layer cloud investigations: 2. Large-eddy simulations of cumulus clouds and evaluation with in situ and ground-based observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5993-6014.	3.3	35
22	West Antarctic Ice Sheet Cloud Cover and Surface Radiation Budget from NASA A-Train Satellites. <i>Journal of Climate</i> , 2017, 30, 6151-6170.	3.2	33
23	New insights into ice multiplication using remote-sensing observations of slightly supercooled mixed-phase clouds in the Arctic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	33
24	Lateral entrainment rate in shallow cumuli: Dependence on dry air sources and probability density functions. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	32
25	A Method of Correcting for Tilt from Horizontal in Downwelling Shortwave Irradiance Measurements on Moving Platforms. <i>The Open Atmospheric Science Journal</i> , 2010, 4, 78-87.	0.5	32
26	Ice particle production in mid-level stratiform mixed-phase clouds observed with collocated A-Train measurements. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4317-4327.	4.9	31
27	Cloud droplet size distribution broadening during diffusional growth: ripening amplified by deactivation and reactivation. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 7313-7328.	4.9	30
28	The Cloud-resolving model Radar SIMulator (CR-SIM) Version 3.3: description and applications of a virtual observatory. <i>Geoscientific Model Development</i> , 2020, 13, 1975-1998.	3.6	28
29	Observational constraints on non-Lorentzian continuum effects in the near-infrared solar spectrum using ARM ARESE data. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 1998, 60, 231-246.	2.3	25
30	Estimation of cloud fraction profile in shallow convection using a scanning cloud radar. <i>Geophysical Research Letters</i> , 2016, 43, 10,998.	4.0	22
31	Is Contact Nucleation Caused by Pressure Perturbation?. <i>Atmosphere</i> , 2020, 11, 1.	2.3	22
32	Effects of dirty snow in nuclear winter simulations. <i>Journal of Geophysical Research</i> , 1988, 93, 5319-5332.	3.3	20
33	RACORO continental boundary layer cloud investigations: 1. Case study development and ensemble large-scale forcings. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 5962-5992.	3.3	20
34	Scaling of Drizzle Virga Depth With Cloud Thickness for Marine Stratocumulus Clouds. <i>Geophysical Research Letters</i> , 2018, 45, 3746-3753.	4.0	20
35	Antarctic Cloud Macrophysical, Thermodynamic Phase, and Atmospheric Inversion Coupling Properties at McMurdo Station—Part II: Radiative Impact During Different Synoptic Regimes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 1697-1719.	3.3	20
36	Scale Dependence of Solar Heating Rates in Convective Cloud Systems with Implications to General Circulation Models. <i>Journal of Climate</i> , 2001, 14, 1738-1752.	3.2	19

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37	The WRF nested within the CESM: Simulations of a midlatitude cyclone over the Southern Great Plains. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 611-622.	3.8	18
38	RACORO continental boundary layer cloud investigations: 3. Separation of parameterization biases single-column model CAM5 simulations of shallow cumulus. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6015-6033.	3.3	18
39	Expected magnitude of the aerosol shortwave indirect effect in springtime Arctic liquid water clouds. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	17
40	Relating Satellite-Observed Cloud Properties from MODIS to Meteorological Conditions for Marine Boundary Layer Clouds. <i>Journal of Climate</i> , 2010, 23, 1374-1391.	3.2	17
41	Improving Convection Trigger Functions in Deep Convective Parameterization Schemes Using Machine Learning. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002365.	3.8	16
42	Observational quantification of a total aerosol indirect effect in the Arctic. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 62, 181.	1.6	15
43	The influence of mixed-phase clouds on surface shortwave irradiance during the Arctic spring. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	15
44	Cloud Properties over the North Slope of Alaska: Identifying the Prevailing Meteorological Regimes. <i>Journal of Climate</i> , 2012, 25, 8238-8258.	3.2	14
45	Methods for Estimating 2D Cloud Size Distributions from 1D Observations. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 3405-3417.	1.7	14
46	Reconciling Differences Between Large-Eddy Simulations and Doppler Lidar Observations of Continental Shallow Cumulus Clouds Base Vertical Velocity. <i>Geophysical Research Letters</i> , 2019, 46, 11539-11547.	4.0	14
47	Comparison of Antarctic and Arctic Single-Layer Stratiform Mixed-Phase Cloud Properties Using Ground-Based Remote Sensing Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 10186-10204.	3.3	14
48	Development of fine-resolution analyses and expanded large-scale forcing properties: 1. Methodology and evaluation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 654-666.	3.3	13
49	Effects of cloud shape and water vapor distribution on solar absorption in the near infrared. <i>Geophysical Research Letters</i> , 1998, 25, 1899-1902.	4.0	12
50	A new approach to estimate supersaturation fluctuations in stratocumulus cloud using ground-based remote-sensing measurements. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 5817-5828.	3.1	11
51	Spectral characteristics of background error covariance and multiscale data assimilation. <i>International Journal for Numerical Methods in Fluids</i> , 2016, 82, 1035-1048.	1.6	10
52	The role of precipitation size distributions in km-scale NWP simulations of intense precipitation: evaluation of cloud properties and surface precipitation. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 2163-2181.	2.7	9
53	Energetics of surface melt in West Antarctica. <i>Cryosphere</i> , 2021, 15, 3459-3494.	3.9	9
54	Validation of visible/near-IR atmospheric absorption and solar emission spectroscopic models at 1 cm ⁻¹ resolution. <i>Journal of Geophysical Research</i> , 2000, 105, 22445-22454.	3.3	8

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55	Modifications to WRF's dynamical core to improve the treatment of moisture for large-scale eddy simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 1627-1642.	3.8	8
56	Multispectral sensor data simulation modeling based on the multiple scattering LOWTRAN code. <i>Remote Sensing of Environment</i> , 1988, 26, 75-99.	11.0	7
57	Evaluation of aerosol-cloud interaction in the GISS ModelE using ARM observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6383-6395.	3.3	6
58	Large-scale Eddy Simulations of a Convection Cloud Chamber: Sensitivity to Bin Microphysics and Advection. <i>Journal of Advances in Modeling Earth Systems</i> , 2022, 14, .	3.8	6
59	The unexplained solar absorption and atmospheric H ₂ O: a direct test using clear-sky data. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1998, 50, 525-533.	1.7	5
60	On the Life Cycle of a Shallow Cumulus Cloud: Is It a Bubble or Plume, Active or Forced?. <i>Journals of the Atmospheric Sciences</i> , 2021, 78, 2823-2833.	1.7	5
61	The unexplained solar absorption and atmospheric H ₂ O: a direct test using clear-sky data. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1998, 50, 525-533.	1.7	4
62	Development of fine-scale resolution analyses and expanded large-scale forcing properties: 2. Scale awareness and application to single-column model experiments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 667-677.	3.3	4
63	Characterizing Subsiding Shells in Shallow Cumulus Using Doppler Lidar and Large-scale Eddy Simulation. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089699.	4.0	3
64	Large-scale Forcing Impact on the Development of Shallow Convective Clouds Revealed From LASSO Large-scale Eddy Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035208.	3.3	3
65	Retrievals of cloud optical depth and effective radius from Thin-Cloud Rotating Shadowband Radiometer measurements. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	2
66	Clear-sky infrared aerosol radiative forcing at the surface and the top of the atmosphere. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 2927-2947.	2.7	2
67	Design of a Shadowband Spectral Radiometer for the Retrieval of Thin Cloud Optical Depth, Liquid Water Path, and the Effective Radius. <i>Journal of Atmospheric and Oceanic Technology</i> , 2011, 28, 1458-1465.	1.3	1
68	Examination of Humidity and Ice Supersaturation Profiles Over West Antarctica Using Ground-Based G-Band Radiometer Retrievals. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-16.	6.3	0