

Andrew M Vogelmann

List of Publications by Year in Descending Order

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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.

70
papers

2,068
citations

23
h-index

44
g-index

78
ext. papers

2,331
ext. citations

6.3
avg, IF

4.64
L-index

#	Paper	IF	Citations
70	Large-Scale Forcing Impact on the Development of Shallow Convective Clouds Revealed From LASSO Large-Eddy Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2021JD035208	4.4	1
69	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,	11.5	7
68	Improving Convection Trigger Functions in Deep Convective Parameterization Schemes Using Machine Learning. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2020MS002365	7.1	2
67	On the lifecycle of a shallow cumulus cloud: Is it a bubble or plume, active or forced?. <i>Journals of the Atmospheric Sciences</i> , 2021 ,	2.1	1
66	Energetics of surface melt in West Antarctica. <i>Cryosphere</i> , 2021 , 15, 3459-3494	5.5	0
65	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> , 2021 , 1-16	8.1	
64	Characterizing Subsiding Shells in Shallow Cumulus Using Doppler Lidar and Large-Eddy Simulation. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089699	4.9	2
63	Is Contact Nucleation Caused by Pressure Perturbation?. <i>Atmosphere</i> , 2020 , 11, 1	2.7	15
62	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	6.3	14
61	AWARE: The Atmospheric Radiation Measurement (ARM) West Antarctic Radiation Experiment. <i>Bulletin of the American Meteorological Society</i> , 2020 , 101, E1069-E1091	6.1	23
60	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	6.1	24
59	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	4.4	14
58	Reconciling Differences Between Large-Eddy Simulations and Doppler Lidar Observations of Continental Shallow Cumulus Cloud-Base Vertical Velocity. <i>Geophysical Research Letters</i> , 2019 , 46, 11539-11547	4.9	12
57	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	4.4	6
56	The Cloud Resolving Model Radar Simulator (CR-SIM) Version 3.2: Description and Applications of a Virtual Observatory 2019 ,		1
55	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	4	6
54	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	6.8	17

53	Scaling of Drizzle Virga Depth With Cloud Thickness for Marine Stratocumulus Clouds. <i>Geophysical Research Letters</i> , 2018 , 45, 3746-3753	4.9	13
52	Cloud droplet size distribution broadening during diffusional growth: ripening amplified by deactivation and reactivation. <i>Atmospheric Chemistry and Physics</i> , 2018 , 18, 7313-7328	6.8	17
51	West Antarctic Ice Sheet Cloud Cover and Surface Radiation Budget from NASA A-Train Satellites. <i>Journal of Climate</i> , 2017 , 30, 6151-6170	4.4	23
50	January 2016 extensive summer melt in West Antarctica favoured by strong El Niño. <i>Nature Communications</i> , 2017 , 8, 15799	17.4	86
49	Methods for Estimating 2D Cloud Size Distributions from 1D Observations. <i>Journals of the Atmospheric Sciences</i> , 2017 , 74, 3405-3417	2.1	9
48	Estimation of cloud fraction profile in shallow convection using a scanning cloud radar. <i>Geophysical Research Letters</i> , 2016 , 43, 10,998-11,006	4.9	16
47	Spectral characteristics of background error covariance and multiscale data assimilation. <i>International Journal for Numerical Methods in Fluids</i> , 2016 , 82, 1035-1048	1.9	5
46	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	4.4	18
45	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	4.4	13
44	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	4.4	12
43	Development of fine-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	4.4	4
42	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	4.4	27
41	Modifications to WRFv3 dynamical core to improve the treatment of moisture for large-eddy simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2015 , 7, 1627-1642	7.1	8
40	Evaluation of aerosol-cloud interaction in the GISS ModelE using ARM observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 6383-6395	4.4	6
39	The Role of Cloud Microphysics Parameterization in the Simulation of Mesoscale Convective System Clouds and Precipitation in the Tropical Western Pacific. <i>Journals of the Atmospheric Sciences</i> , 2013 , 70, 1104-1128	2.1	76
38	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	7.1	15
37	Empirical relationship between entrainment rate and microphysics in cumulus clouds. <i>Geophysical Research Letters</i> , 2013 , 40, 2333-2338	4.9	41
36	Lateral entrainment rate in shallow cumuli: Dependence on dry air sources and probability density functions. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	26

35	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	6.4	9
34	Racoro Extended-Term Aircraft Observations of Boundary Layer Clouds. <i>Bulletin of the American Meteorological Society</i> , 2012 , 93, 861-878	6.1	71
33	Cloud Properties over the North Slope of Alaska: Identifying the Prevailing Meteorological Regimes. <i>Journal of Climate</i> , 2012 , 25, 8238-8258	4.4	14
32	Sensitivity of Idealized Squall-Line Simulations to the Level of Complexity Used in Two-Moment Bulk Microphysics Schemes. <i>Monthly Weather Review</i> , 2012 , 140, 1883-1907	2.4	67
31	Observed impacts of vertical velocity on cloud microphysics and implications for aerosol indirect effects. <i>Geophysical Research Letters</i> , 2012 , 39,	4.9	39
30	The influence of mixed-phase clouds on surface shortwave irradiance during the Arctic spring. <i>Journal of Geophysical Research</i> , 2011 , 116,		13
29	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		2
28	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
27	Observational quantification of a total aerosol indirect effect in the Arctic. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2010 , 62, 181-189	3.3	14
26	Relating Satellite-Observed Cloud Properties from MODIS to Meteorological Conditions for Marine Boundary Layer Clouds. <i>Journal of Climate</i> , 2010 , 23, 1374-1391	4.4	15
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	0.7	24
24	. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2009 , 47, 3326-3337	8.1	60
23	Investigation of Regional and Seasonal Variations in Marine Boundary Layer Cloud Properties from MODIS Observations. <i>Journal of Climate</i> , 2008 , 21, 4955-4973	4.4	39
22	Expected magnitude of the aerosol shortwave indirect effect in springtime Arctic liquid water clouds. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	16
21	Thin Liquid Water Clouds: Their Importance and Our Challenge. <i>Bulletin of the American Meteorological Society</i> , 2007 , 88, 177-190	6.1	164
20	A climatologically significant aerosol longwave indirect effect in the Arctic. <i>Nature</i> , 2006 , 439, 453-6	50.4	153
19	ACE-ASIA: Regional Climatic and Atmospheric Chemical Effects of Asian Dust and Pollution. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 367-380	6.1	285
18	Saharan Dust Aerosol Radiative Forcing Measured from Space. <i>Journal of Climate</i> , 2004 , 17, 2558-2571	4.4	100

17	Observations of large aerosol infrared forcing at the surface. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	45
16	Influence of relative humidity on aerosol radiative forcing: An ACE-Asia experiment perspective. <i>Journal of Geophysical Research</i> , 2003 , 108,		64
15	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	6.4	42
14	Clear-sky infrared aerosol radiative forcing at the surface and the top of the atmosphere 2003 , 129, 2927		2
13	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	4.4	17
12	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		7
11	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	2.1	23
10	. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 1998 , 50, 525-533	2	5
9	Effects of cloud shape and water vapor distribution on solar absorption in the near infrared. <i>Geophysical Research Letters</i> , 1998 , 25, 1899-1902	4.9	11
8	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	2	3
7	A Comparison of CCM2BATS Skin Temperature and Surface-Air Temperature with Satellite and Surface Observations. <i>Journal of Climate</i> , 1997 , 10, 1505-1524	4.4	85
6	Relating Cirrus Cloud Properties to Observed Fluxes: A Critical Assessment. <i>Journals of the Atmospheric Sciences</i> , 1995 , 52, 4285-4301	2.1	37
5	Enhancements in biologically effective ultraviolet radiation following volcanic eruptions. <i>Nature</i> , 1992 , 359, 47-9	50.4	42
4	Multispectral sensor data simulation modeling based on the multiple scattering LOWTRAN code. <i>Remote Sensing of Environment</i> , 1988 , 26, 75-99	13.2	6
3	Effects of dirty snow in nuclear winter simulations. <i>Journal of Geophysical Research</i> , 1988 , 93, 5319		17
2	Description of the LASSO Alpha 2 Release		6
1	Recommendations for the Implementation of the LASSO Workflow		9