

Wayne Angevine

List of Publications by Year in descending order

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89
papers

5,812
citations

66234

42
h-index

85405

71
g-index

109
all docs

109
docs citations

109
times ranked

5532
citing authors

#	ARTICLE	IF	CITATIONS
1	Demistify: a large-eddy simulation (LES) and single-column model (SCM) intercomparison of radiation fog. <i>Atmospheric Chemistry and Physics</i> , 2022, 22, 319-333.	1.9	14
2	The Role of Radiation in Heating the Clear-Air Convective Boundary Layer: Revisiting CASES-97. <i>Boundary-Layer Meteorology</i> , 2021, 178, 341-361.	1.2	4
3	Transition Periods in the Diurnally-Varying Atmospheric Boundary Layer Over Land. <i>Boundary-Layer Meteorology</i> , 2020, 177, 205-223.	1.2	29
4	Scale Awareness, Resolved Circulations, and Practical Limits in the MYNN-EDMF Boundary Layer and Shallow Cumulus Scheme. <i>Monthly Weather Review</i> , 2020, 148, 4629-4639.	0.5	4
5	Errors in top-down estimates of emissions using a known source. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 11855-11868.	1.9	11
6	Improving Wind Energy Forecasting through Numerical Weather Prediction Model Development. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 2201-2220.	1.7	87
7	Intercomparison of atmospheric trace gas dispersion models: Barnett Shale case study. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 2561-2576.	1.9	24
8	100 Years of Progress in Boundary Layer Meteorology. <i>Meteorological Monographs</i> , 2019, 59, 9.1-9.85.	5.0	61
9	Inversion Estimates of Lognormally Distributed Methane Emission Rates From the Haynesville-Bossier Oil and Gas Production Region Using Airborne Measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3520-3531.	1.2	18
10	Shallow Cumulus in WRF Parameterizations Evaluated against LASSO Large-Eddy Simulations. <i>Monthly Weather Review</i> , 2018, 146, 4303-4322.	0.5	36
11	Single-Column Model Simulations of Subtropical Marine Boundary-Layer Cloud Transitions Under Weakening Inversions. <i>Journal of Advances in Modeling Earth Systems</i> , 2017, 9, 2385-2412.	1.3	27
12	Top-down estimate of methane emissions in California using a mesoscale inverse modeling technique: The San Joaquin Valley. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 3686-3699.	1.2	26
13	Influence of oil and gas emissions on summertime ozone in the Colorado Northern Front Range. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 8712-8729.	1.2	86
14	Select strengths and biases of models in representing the Arctic winter boundary layer over sea ice: the Larcform 1 single column model intercomparison. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 1345-1357.	1.3	43
15	Top-down estimate of methane emissions in California using a mesoscale inverse modeling technique: The South Coast Air Basin. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 6698-6711.	1.2	38
16	Corrigendum to "In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC<sup>4&sup>;RS: observations of a modest aerosol enhancement aloft"; published in <i>Atmos. Chem. Phys.</i> , 15, 7085-7102, 2015. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 8455-8455.	1.9	1
17	Improving a global model from the boundary layer: Total turbulent energy and the neutral limit number. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 791-805.	1.3	23
18	In situ vertical profiles of aerosol extinction, mass, and composition over the southeast United States during SENEX and SEAC<sup>4&sup>;RS: observations of a modest aerosol enhancement aloft. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 7085-7102.	1.9	50

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19	Uncertainty in Lagrangian pollutant transport simulations due to meteorological uncertainty from a mesoscale WRF ensemble. <i>Geoscientific Model Development</i> , 2014, 7, 2817-2829.	1.3	40
20	The Third GABLS Intercomparison Case for Evaluation Studies of Boundary-Layer Models. Part B: Results and Process Understanding. <i>Boundary-Layer Meteorology</i> , 2014, 152, 157-187.	1.2	83
21	The BLLAST field experiment: Boundary-Layer Late Afternoon and Sunset Turbulence. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 10931-10960.	1.9	151
22	Emissions of organic carbon and methane from petroleum and dairy operations in California's San Joaquin Valley. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 4955-4978.	1.9	59
23	Emissions of terpenoids, benzenoids, and other biogenic gas-phase organic compounds from agricultural crops and their potential implications for air quality. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 5393-5413.	1.9	43
24	Land surface spinup for episodic modeling. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 8165-8172.	1.9	37
25	Surface observations for monitoring urban fossil fuel CO ₂ emissions: Minimum site location requirements for the Los Angeles megacity. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1577-1584.	1.2	61
26	The 2010 California Research at the Nexus of Air Quality and Climate Change (CalNex) field study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5830-5866.	1.2	199
27	The Lagrangian particle dispersion model FLEXPART-WRF version 3.1. <i>Geoscientific Model Development</i> , 2013, 6, 1889-1904.	1.3	256
28	Ensemble Data Assimilation to Characterize Surface-Layer Errors in Numerical Weather Prediction Models. <i>Monthly Weather Review</i> , 2013, 141, 1804-1821.	0.5	25
29	Top-down estimate of surface flux in the Los Angeles Basin using a mesoscale inverse modeling technique: assessing anthropogenic emissions of CO, NO _x , and CO ₂ and their impacts. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3661-3677.	1.9	142
30	Organic aerosol composition and sources in Pasadena, California, during the 2010 CalNex campaign. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9233-9257.	1.2	231
31	Nitrous oxide (N ₂ O) emissions from California based on 2010 CalNex airborne measurements. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2809-2820.	1.2	24
32	Inorganic and black carbon aerosols in the Los Angeles Basin during CalNex. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 1777-1803.	1.2	15
33	Pollutant transport among California regions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6750-6763.	1.2	26
34	Meteorological Model Evaluation for CalNex 2010. <i>Monthly Weather Review</i> , 2012, 140, 3885-3906.	0.5	70
35	Numerical uncertainty at mesoscale in a Lagrangian model in complex terrain. <i>Geoscientific Model Development</i> , 2012, 5, 1127-1136.	1.3	36
36	A new inversion method to calculate emission inventories without a prior at mesoscale: Application to the anthropogenic CO ₂ emission from Houston, Texas. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	44

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37	Observations of ozone transport from the free troposphere to the Los Angeles basin. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	38
38	The sea breeze/land breeze circulation in Los Angeles and its influence on nitryl chloride production in this region. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	54
39	Atmospheric emissions from the Deepwater Horizon spill constrain air-water partitioning, hydrocarbon fate, and leak rate. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	107
40	Top-down estimate of anthropogenic emission inventories and their interannual variability in Houston using a mesoscale inverse modeling technique. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	73
41	Evaluations of NO _x and highly reactive VOC emission inventories in Texas and their implications for ozone plume simulations during the Texas Air Quality Study 2006. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11361-11386.	1.9	85
42	Evaluation of urban surface parameterizations in the WRF model using measurements during the Texas Air Quality Study 2006 field campaign. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 2127-2143.	1.9	119
43	The glyoxal budget and its contribution to organic aerosol for Los Angeles, California, during CalNex 2010. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	99
44	Evaluation of the Diurnal Cycle in the Atmospheric Boundary Layer Over Land as Represented by a Variety of Single-Column Models: The Second GABLS Experiment. <i>Boundary-Layer Meteorology</i> , 2011, 140, 177-206.	1.2	158
45	Performance of an Eddy Diffusivity-Mass Flux Scheme for Shallow Cumulus Boundary Layers. <i>Monthly Weather Review</i> , 2010, 138, 2895-2912.	0.5	116
46	Transitional, entraining, cloudy, and coastal boundary layers. <i>Acta Geophysica</i> , 2008, 56, 2-20.	1.0	43
47	Boundary layer aerosol chemistry during TexAQS/GoMACCS 2006: Insights into aerosol sources and transformation processes. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	73
48	Multisensor Estimation of Mixing Heights over a Coastal City. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 27-43.	0.6	87
49	High resolution vertical distributions of NO ₃ and N ₂ O ₅ through the nocturnal boundary layer. <i>Atmospheric Chemistry and Physics</i> , 2007, 7, 139-149.	1.9	119
50	Comparing the impact of meteorological variability on surface ozone during the NEAQS (2002) and ICARTT (2004) field campaigns. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	43
51	Mesoscale model performance with assimilation of wind profiler data: Sensitivity to assimilation parameters and network configuration. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	14
52	Vertical profiles in NO ₃ and N ₂ O ₅ measured from an aircraft: Results from the NOAA P-3 and surface platforms during the New England Air Quality Study 2004. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	75
53	Structure and formation of the highly stable marine boundary layer over the Gulf of Maine. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	35
54	Turbulent bulk transfer coefficients and ozone deposition velocity in the International Consortium for Atmospheric Research into Transport and Transformation. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	41

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55	Modeling of the Coastal Boundary Layer and Pollutant Transport in New England. Journal of Applied Meteorology and Climatology, 2006, 45, 137-154.	0.6	28
56	An Integrated Turbulence Scheme for Boundary Layers with Shallow Cumulus Applied to Pollutant Transport. Journal of Applied Meteorology and Climatology, 2005, 44, 1436-1452.	1.7	43
57	Nighttime removal of NO _x in the summer marine boundary layer. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	127
58	Coastal Boundary Layer Influence on Pollutant Transport in New England. Journal of Applied Meteorology and Climatology, 2004, 43, 1425-1437.	1.7	63
59	Urban-rural contrasts in mixing height and cloudiness over Nashville in 1999. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	65
60	Signatures of terminal alkene oxidation in airborne formaldehyde measurements during TexAQs 2000. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	126
61	Effect of petrochemical industrial emissions of reactive alkenes and NO _x on tropospheric ozone formation in Houston, Texas. Journal of Geophysical Research, 2003, 108, .	3.3	263
62	Correction to "Regional contrast in morning transitions observed during the 1999 Southern Oxidants Study Nashville/Middle Tennessee Intensive" by A. B. White et al.. Journal of Geophysical Research, 2003, 108, .	3.3	1
63	Observations of the Afternoon Transition of the Convective Boundary Layer. Journal of Applied Meteorology and Climatology, 2002, 41, 3-11.	1.7	51
64	Nighttime isoprene trends at an urban forested site during the 1999 Southern Oxidant Study. Journal of Geophysical Research, 2002, 107, ACH 7-1.	3.3	43
65	Vertical variations in O ₃ concentrations before and after a gust front passage. Journal of Geophysical Research, 2002, 107, ACH 9-1.	3.3	26
66	Regional contrast in morning transitions observed during the 1999 Southern Oxidants Study Nashville/Middle Tennessee Intensive. Journal of Geophysical Research, 2002, 107, ACL 21-1-ACL 21-12.	3.3	13
67	Cases-97: Late-Morning Warming And Moistening Of The Convective Boundary Layer Over The Walnut River Watershed. Boundary-Layer Meteorology, 2002, 104, 1-52.	1.2	57
68	Evaluation of the NCEP Mesoscale Eta Model Convective Boundary Layer for Air Quality Applications. Monthly Weather Review, 2001, 129, 2761-2775.	0.5	19
69	Observations Of The Morning Transition Of The Convective Boundary Layer. Boundary-Layer Meteorology, 2001, 101, 209-227.	1.2	81
70	Boundary Layer Height and Entrainment Zone Thickness Measured by Lidars and Wind-Profiling Radars. Journal of Applied Meteorology and Climatology, 2000, 39, 1233-1247.	1.7	215
71	Ozone production and transport near Nashville, Tennessee: Results from the 1994 study at New Hendersonville. Journal of Geophysical Research, 2000, 105, 9137-9153.	3.3	26
72	Entrainment results including advection and case studies from the Flatland boundary layer experiments. Journal of Geophysical Research, 1999, 104, 30947-30963.	3.3	35

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73	Entrainment results from the Flatland boundary layer experiments. Journal of Geophysical Research, 1998, 103, 13689-13701.	3.3	39
74	Convective Boundary Layer Height Measurement with Wind Profilers and Comparison to Cloud Base. Journal of Atmospheric and Oceanic Technology, 1998, 15, 1331-1338.	0.5	63
75	Wind Profiler and RASS Measurements Compared with Measurements from a 450-m-Tall Tower. Journal of Atmospheric and Oceanic Technology, 1998, 15, 818-825.	0.5	55
76	The Flatland Boundary Layer Experiments. Bulletin of the American Meteorological Society, 1998, 79, 419-431.	1.7	53
77	Errors in Mean Vertical Velocities Measured by Boundary Layer Wind Profilers. Journal of Atmospheric and Oceanic Technology, 1997, 14, 565-569.	0.5	54
78	Local meteorological features affecting chemical measurements at a North Atlantic coastal site. Journal of Geophysical Research, 1996, 101, 28935-28946.	3.3	22
79	Mesoscale meteorology of the New England coast, Gulf of Maine, and Nova Scotia: Overview. Journal of Geophysical Research, 1996, 101, 28893-28901.	3.3	55
80	Comparison of Measured and Modeled Surface Fluxes of Heat, Moisture, and Chemical Dry Deposition. , 1996, , 613-621.		7
81	Comparison of Wind Profiler and Aircraft Wind Measurements at Chebogue Point, Nova Scotia. Journal of Atmospheric and Oceanic Technology, 1995, 12, 421-426.	0.5	28
82	Measurements of 3-methyl furan, methyl vinyl ketone, and methacrolein at a rural forested site in the southeastern United States. Journal of Geophysical Research, 1995, 100, 11393.	3.3	74
83	Developments in UHF lower tropospheric wind profiling at NOAA's Aeronomy Laboratory. Radio Science, 1995, 30, 977-1001.	0.8	183
84	Boundary-layer depth and entrainment zone characterization with a boundary-layer profiler. Boundary-Layer Meteorology, 1994, 68, 375-385.	1.2	201
85	Errors in Radio Acoustic Sounding of Temperature. Journal of Atmospheric and Oceanic Technology, 1994, 11, 837-842.	0.5	31
86	Improved Radio Acoustic Sounding Techniques. Journal of Atmospheric and Oceanic Technology, 1994, 11, 42-49.	0.5	41
87	Remote Sensing of Vertical Velocity Variance and Surface Heat Flux in a Convective Boundary Layer. Journal of Applied Meteorology and Climatology, 1994, 33, 977-983.	1.7	35
88	Virtual Heat Flux Measurements from a Boundary-Layer Profiler-RASS Compared to Aircraft Measurements. Journal of Applied Meteorology and Climatology, 1993, 32, 1901-1907.	1.7	28
89	Fluxes of Heat and Momentum Measured with a Boundary-Layer Wind Profiler Radar-Radio Acoustic Sounding System. Journal of Applied Meteorology and Climatology, 1993, 32, 73-80.	1.7	21