Steven K Krueger

List of Publications by Year
in descending order

28 papers	1,544 citations	471509 17 h-index	501196 28 g-index
29 all docs	29 docs citations	29 times ranked	1329 citing authors

#	Article	IF	Citations
1	Improvements of an Ice-Phase Microphysics Parameterization for Use in Numerical Simulations of Tropical Convection. Journal of Applied Meteorology and Climatology, 1995, 34, 281-287.	1.7	233
2	An intercomparison of cloud-resolving models with the Atmospheric Radiation Measurement summer 1997 Intensive Observation Period data. Quarterly Journal of the Royal Meteorological Society, 2002, 128, 593-624.	2.7	192
3	Interactions of Radiation and Convection in Simulated Tropical Cloud Clusters. Journals of the Atmospheric Sciences, 1995, 52, 1310-1328.	1.7	130
4	Intercomparison and evaluation of cumulus parametrizations under summertime midlatitude continental conditions. Quarterly Journal of the Royal Meteorological Society, 2002, 128, 1095-1135.	2.7	119
5	Evaluation of the NCEP Global Forecast System at the ARM SGP Site. Monthly Weather Review, 2006, 134, 3668-3690.	1.4	108
6	Linear eddy modeling of droplet spectral evolution during entrainment and mixing in cumulus clouds. Atmospheric Research, 1998, 47-48, 41-58.	4.1	99
7	Largeâ€Eddy Simulation of Maritime Deep Tropical Convection. Journal of Advances in Modeling Earth Systems, 2009, 1, .	3.8	95
8	A simplified PDF parameterization of subgridâ€scale clouds and turbulence for cloudâ€resolving models. Journal of Advances in Modeling Earth Systems, 2013, 5, 195-211.	3.8	92
9	Modeling Entrainment and Finescale Mixing in Cumulus Clouds. Journals of the Atmospheric Sciences, 1997, 54, 2697-2712.	1.7	91
10	Effects of entrainment and mixing on droplet size distributions in warm cumulus clouds. Journal of Advances in Modeling Earth Systems, 2014, 6, 281-299.	3.8	45
11	Exploring parameterization for turbulent entrainmentâ€mixing processes in clouds. Journal of Geophysical Research D: Atmospheres, 2013, 118, 185-194.	3.3	43
12	Cloud-Resolving Modeling of Deep Convection during KWAJEX. Part I: Comparison to TRMM Satellite and Ground-Based Radar Observations. Monthly Weather Review, 2008, 136, 2699-2712.	1.4	42
13	Cirrus Cloud Properties from a Cloud-Resolving Model Simulation Compared to Cloud Radar Observations. Journals of the Atmospheric Sciences, 2003, 60, 510-525.	1.7	39
14	Downdrafts in the near cloud environment of deep convective updrafts. Journal of Advances in Modeling Earth Systems, 2014, 6, 1-8.	3.8	26
15	Scaling of an Atmospheric Model to Simulate Turbulence and Cloud Microphysics in the Pi Chamber. Journal of Advances in Modeling Earth Systems, 2019, 11, 1981-1994.	3.8	24
16	On Which Microphysical Time Scales to Use in Studies of Entrainmentâ€Mixing Mechanisms in Clouds. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3740-3756.	3.3	23
17	Two-dimensional numerical simulations of Arctic leads: Plume penetration height. Journal of Geophysical Research, 2003, 108, n/a-n/a.	3.3	20
18	Evaluating Wildfire Smoke Transport Within a Coupled Fireâ€Atmosphere Model Using a Highâ€Density Observation Network for an Episodic Smoke Event Along Utah's Wasatch Front. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032712.	3.3	18

#	Article	IF	Citations
19	Connections matter: Updraft merging in organized tropical deep convection. Geophysical Research Letters, 2017, 44, 7087-7094.	4.0	16
20	Turbulent Transport in the Gray Zone: A Large Eddy Model Intercomparison Study of the CONSTRAIN Cold Air Outbreak Case. Journal of Advances in Modeling Earth Systems, 2019, 11, 597-623.	3.8	16
21	Incorporating a Canopy Parameterization within a Coupled Fire-Atmosphere Model to Improve a Smoke Simulation for a Prescribed Burn. Atmosphere, 2020, 11, 832.	2.3	15
22	Cloud Properties Simulated by a Single-Column Model. Part I: Comparison to Cloud Radar Observations of Cirrus Clouds. Journals of the Atmospheric Sciences, 2005, 62, 1428-1445.	1.7	13
23	Moisture Distributions in Tropical Cold Pools From Equatorial Indian Ocean Observations and Cloudâ€Resolving Simulations. Journal of Geophysical Research D: Atmospheres, 2018, 123, 11,445.	3.3	12
24	Clustering of randomly advected low-inertia particles: A solvable model. Physical Review E, 2006, 73, 025302.	2.1	11
25	Thermodynamic Constraints on the Size Distributions of Tropical Clouds. Journal of Geophysical Research D: Atmospheres, 2018, 123, 8832-8849.	3.3	11
26	Relationship Between Wintertime Leads and Low Clouds in the Panâ€Arctic. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032595.	3.3	6
27	An Economical Model for Simulating Turbulence Enhancement of Droplet Collisions and Coalescence. Journal of Advances in Modeling Earth Systems, 2018, 10, 1858-1881.	3.8	4
28	Mesoanalysis of the interactions of precipitating convection and the boundary layer. Journal of Advances in Modeling Earth Systems, 2012, 4, .	3.8	1