

Eric E Jensen

List of Publications by Year in descending order

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75
papers

4,779
citations

94269

37
h-index

106150

65
g-index

80
all docs

80
docs citations

80
times ranked

3142
citing authors

#	ARTICLE	IF	CITATIONS
1	Clarifying the Dominant Sources and Mechanisms of Cirrus Cloud Formation. <i>Science</i> , 2013, 340, 1320-1324.	6.0	442
2	Physical processes in the tropical tropopause layer and their roles in a changing climate. <i>Nature Geoscience</i> , 2013, 6, 169-176.	5.4	284
3	Modeling coagulation among particles of different composition and size. <i>Atmospheric Environment</i> , 1994, 28, 1327-1338.	1.9	257
4	Transport and freeze-drying in the tropical tropopause layer. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	228
5	Numerical simulations of the three-dimensional distribution of meteoric dust in the mesosphere and upper stratosphere. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	159
6	On the importance of small ice crystals in tropical anvil cirrus. <i>Atmospheric Chemistry and Physics</i> , 2009, 9, 5519-5537.	1.9	151
7	Dehydration of the upper troposphere and lower stratosphere by subvisible cirrus clouds near the tropical tropopause. <i>Geophysical Research Letters</i> , 1996, 23, 825-828.	1.5	141
8	Aircraft measurements of microphysical properties of subvisible cirrus in the tropical tropopause layer. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1609-1620.	1.9	126
9	Aircraft observations of thin cirrus clouds near the tropical tropopause. <i>Journal of Geophysical Research</i> , 2001, 106, 9765-9786.	3.3	122
10	Planning, implementation, and first results of the Tropical Composition, Cloud and Climate Coupling Experiment (TC4). <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	120
11	Ice nucleation processes in upper tropospheric wave-clouds observed during SUCCESS. <i>Geophysical Research Letters</i> , 1998, 25, 1363-1366.	1.5	116
12	Ice nucleation and dehydration in the Tropical Tropopause Layer. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 2041-2046.	3.3	113
13	Evidence for the Predominance of Mid-Tropospheric Aerosols as Subtropical Anvil Cloud Nuclei. <i>Science</i> , 2004, 304, 718-722.	6.0	112
14	Boundary layer sources for the Asian anticyclone: Regional contributions to a vertical conduit. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2560-2575.	1.2	111
15	Ice nucleation and cloud microphysical properties in tropical tropopause layer cirrus. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1369-1384.	1.9	107
16	A conceptual model of the dehydration of air due to freeze-drying by optically thin, laminar cirrus rising slowly across the tropical tropopause. <i>Journal of Geophysical Research</i> , 2001, 106, 17237-17252.	3.3	101
17	Microphysical and radiative properties of tropical clouds investigated in TC4 and NAMMA. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	93
18	Can overshooting convection dehydrate the tropical tropopause layer?. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	92

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19	Ice nucleation in the upper troposphere: Sensitivity to aerosol number density, temperature, and cooling rate. <i>Geophysical Research Letters</i> , 1994, 21, 2019-2022.	1.5	83
20	State transformations and ice nucleation in amorphous (semi-)solid organic aerosol. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 5615-5628.	1.9	82
21	Seasonal differences of vertical transport efficiency in the tropical tropopause layer: On the interplay between tropical deep convection, large-scale vertical ascent, and horizontal circulations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	80
22	A microphysics guide to cirrus – Part 2: Climatologies of clouds and humidity from observations. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12569-12608.	1.9	80
23	The NASA Airborne Tropical Tropopause Experiment: High-Altitude Aircraft Measurements in the Tropical Western Pacific. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 129-143.	1.7	79
24	Global variations of HDO and HDO/H ₂ O ratios in the upper troposphere and lower stratosphere derived from ACE-FTS satellite measurements. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	72
25	Spreading and growth of contrails in a sheared environment. <i>Journal of Geophysical Research</i> , 1998, 103, 31557-31567.	3.3	69
26	Formation of large (≈100 μm) ice crystals near the tropical tropopause. <i>Atmospheric Chemistry and Physics</i> , 2008, 8, 1621-1633.	1.9	69
27	In situ and lidar observations of tropopause subvisible cirrus clouds during TC4. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	69
28	A Review of Ice Particle Shapes in Cirrus formed In Situ and in Anvils. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 10049-10090.	1.2	54
29	Dynamical, convective, and microphysical control on wintertime distributions of water vapor and clouds in the tropical tropopause layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 10,483.	1.2	53
30	Convective Influence on the Humidity and Clouds in the Tropical Tropopause Layer During Boreal Summer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 7576-7593.	1.2	52
31	Physical processes controlling ice concentrations in synoptically forced, midlatitude cirrus. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 5348-5360.	1.2	51
32	Persisting volcanic ash particles impact stratospheric SO ₂ lifetime and aerosol optical properties. <i>Nature Communications</i> , 2020, 11, 4526.	5.8	51
33	High humidities and subvisible cirrus near the tropical tropopause. <i>Geophysical Research Letters</i> , 1999, 26, 2347-2350.	1.5	46
34	Impact of radiative heating, wind shear, temperature variability, and microphysical processes on the structure and evolution of thin cirrus in the tropical tropopause layer. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	42
35	Ubiquitous influence of waves on tropical high cirrus clouds. <i>Geophysical Research Letters</i> , 2016, 43, 5895-5901.	1.5	42
36	High-frequency gravity waves and homogeneous ice nucleation in tropical tropopause layer cirrus. <i>Geophysical Research Letters</i> , 2016, 43, 6629-6635.	1.5	39

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37	Convective Hydration of the Upper Troposphere and Lower Stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4583-4593.	1.2	39
38	Dominant role of mineral dust in cirrus cloud formation revealed by global-scale measurements. <i>Nature Geoscience</i> , 2022, 15, 177-183.	5.4	39
39	Formation of a tropopause cirrus layer observed over Florida during CRYSTAL-FACE. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	38
40	Role of deep convection in establishing the isotopic composition of water vapor in the tropical transition layer. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	37
41	Cloud formation, convection, and stratospheric dehydration. <i>Earth and Space Science</i> , 2014, 1, 1-17.	1.1	35
42	Microphysical Properties of Tropical Tropopause Layer Cirrus. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6053-6069.	1.2	35
43	Water Vapor, Clouds, and Saturation in the Tropical Tropopause Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3984-4003.	1.2	34
44	Physical processes controlling ice concentrations in cold cirrus near the tropical tropopause. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	33
45	Gravity waves amplify upper tropospheric dehydration by clouds. <i>Earth and Space Science</i> , 2015, 2, 485-500.	1.1	30
46	Dehydration in the tropical tropopause layer: A case study for model evaluation using aircraft observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 5299-5316.	1.2	28
47	On the Susceptibility of Cold Tropical Cirrus to Ice Nuclei Abundance. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 2445-2464.	0.6	28
48	Implications of persistent ice supersaturation in cold cirrus for stratospheric water vapor. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	27
49	Cirrus cloud-temperature interactions in the tropical tropopause layer: a case study. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 10085-10095.	1.9	27
50	Observational constraints on the efficiency of dehydration mechanisms in the tropical tropopause layer. <i>Geophysical Research Letters</i> , 2016, 43, 2912-2918.	1.5	27
51	Lapse Rate or Cold Point: The Tropical Tropopause Identified by In Situ Trace Gas Measurements. <i>Geophysical Research Letters</i> , 2018, 45, 10,756.	1.5	25
52	Homogeneous aerosol freezing in the tops of high-altitude tropical cumulonimbus clouds. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	23
53	Small-Scale Wind Fluctuations in the Tropical Tropopause Layer from Aircraft Measurements: Occurrence, Nature, and Impact on Vertical Mixing. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 3847-3869.	0.6	23
54	Impact of gravity waves on the motion and distribution of atmospheric ice particles. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 10799-10823.	1.9	23

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55	Gravity wave spectra in the lower stratosphere diagnosed from project loon balloon trajectories. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8517-8524.	1.2	22
56	Assessment of Observational Evidence for Direct Convective Hydration of the Lower Stratosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032793.	1.2	21
57	Improved cirrus simulations in a general circulation model using CARMA sectional microphysics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 11,679.	1.2	20
58	Physical processes controlling the spatial distributions of relative humidity in the tropical tropopause layer over the Pacific. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 6094-6107.	1.2	20
59	The impact of gravity waves and cloud nucleation threshold on stratospheric water and tropical tropospheric cloud fraction. <i>Earth and Space Science</i> , 2016, 3, 295-305.	1.1	17
60	The Life Cycles of Ice Crystals Detrained From the Tops of Deep Convection. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9624-9634.	1.2	17
61	Heterogeneous Ice Nucleation in the Tropical Tropopause Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 12,210.	1.2	16
62	The Impact of Mesoscale Gravity Waves on Homogeneous Ice Nucleation in Cirrus Clouds. <i>Geophysical Research Letters</i> , 2019, 46, 5556-5565.	1.5	15
63	Studies on the Competition Between Homogeneous and Heterogeneous Ice Nucleation in Cirrus Formation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	15
64	Investigation of the transport processes controlling the geographic distribution of carbon monoxide at the tropical tropopause. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 2067-2086.	1.2	10
65	Microscale characteristics of homogeneous freezing events in cirrus clouds. <i>Geophysical Research Letters</i> , 2017, 44, 2027-2034.	1.5	10
66	Influence of convection on stratospheric water vapor in the North American monsoon region. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12153-12161.	1.9	10
67	Impact of Convectively Detrained Ice Crystals on the Humidity of the Tropical Tropopause Layer in Boreal Winter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032894.	1.2	9
68	Air parcel trajectory dispersion near the tropical tropopause. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 3759-3775.	1.2	7
69	Observational Evidence of Horizontal Transport-Driven Dehydration in the TTL. <i>Geophysical Research Letters</i> , 2019, 46, 7848-7856.	1.5	6
70	Ash Particles Detected in the Tropical Lower Stratosphere. <i>Geophysical Research Letters</i> , 2018, 45, 11,483.	1.5	4
71	An Evaluation of the Representation of Tropical Tropopause Cirrus in the CESM/CARMA Model Using Satellite and Aircraft Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 8659-8687.	1.2	4
72	Cloud and Aerosol Distributions From SAGE III/ISS Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD035550.	1.2	4

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73	Unprecedented Observations of a Nascent In Situ Cirrus in the Tropical Tropopause Layer. Geophysical Research Letters, 2021, 48, e2020GL090936.	1.5	3
74	On the Statistical Distribution of Total Water in Cirrus Clouds. Geophysical Research Letters, 2018, 45, 9963-9971.	1.5	2
75	Analyzing dynamical circulations in the tropical tropopause layer through empirical predictions of cirrus cloud distributions. Journal of Geophysical Research D: Atmospheres, 2014, 119, 2831-2845.	1.2	1