Keri A Nicoll

List of Publications by Year
in descending order

42 papers	1,355 citations	430442 18 h-index	344852 36 g-index
43 all docs	43 docs citations	43 times ranked	1151 citing authors

#	Article	IF	Citations
1	Atmospheric electrical field measurements near a fresh water reservoir and the formation of the lake breeze. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 68, 31592.	0.8	13
2	Periodicities in fair weather potential gradient data from multiple stations at different latitudes. Atmospheric Research, 2022, 276, 106250.	1.8	6
3	Modifying natural droplet systems by charge injection. Physical Review Research, 2022, 4, .	1.3	2
4	Challenges in coupling atmospheric electricity with biological systems. International Journal of Biometeorology, 2021, 65, 45-58.	1.3	23
5	Measuring Global Signals in the Potential Gradient at High Latitude Sites. Frontiers in Earth Science, 2021, 8, .	0.8	4
6	Characteristics of Desert Precipitation in the UAE Derived from a Ceilometer Dataset. Atmosphere, 2021, 12, 1245.	1.0	5
7	Precipitation Modification by Ionization. Physical Review Letters, 2020, 124, 198701.	2.9	11
8	Extensive layer clouds in the global electric circuit: their effects on vertical charge distribution and storage. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20190758.	1.0	11
9	Consistent dust electrification from Arabian Gulf sea breezes. Environmental Research Letters, 2020, 15, 084050.	2.2	7
10	A global atmospheric electricity monitoring network for climate and geophysical research. Journal of Atmospheric and Solar-Terrestrial Physics, 2019, 184, 18-29.	0.6	71
11	Shearâ€induced electrical changes in the base of thin layerâ€cloud. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 3667-3679.	1.0	5
12	First In Situ Observations of Gaseous Volcanic Plume Electrification. Geophysical Research Letters, 2019, 46, 3532-3539.	1.5	16
13	Electrical sensing of the dynamical structure of the planetary boundary layer. Atmospheric Research, 2018, 202, 81-95.	1.8	18
14	Saharan dust plume charging observed over the UK. Environmental Research Letters, 2018, 13, 054018.	2.2	23
15	Fair weather criteria for atmospheric electricity measurements. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 179, 239-250.	0.6	72
16	Editorial: Advances in lightning detection. Weather, 2017, 72, 31-31.	0.6	0
17	Evaluating stratiform cloud base charge remotely. Geophysical Research Letters, 2017, 44, 6407-6412.	1.5	13
18	Note: A self-calibrating wide range electrometer for in-cloud measurements. Review of Scientific Instruments, 2017, 88, 126109.	0.6	7

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19	Stratiform cloud electrification: comparison of theory with multiple inâ€cloud measurements. Quarterly Journal of the Royal Meteorological Society, 2016, 142, 2679-2691.	1.0	38
20	Balloon measurements of the vertical ionization profile over southern Israel and comparison to mid-latitude observations. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 149, 87-92.	0.6	5
21	On the detection and attribution of gravity waves generated by the 20 March 2015 solar eclipse. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150222.	1.6	21
22	Point discharge current measurements beneath dust devils. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 150-151, 55-60.	0.6	6
23	Coordinated weather balloon solar radiation measurements during a solar eclipse. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150221.	1.6	15
24	Applications of Electrified Dust and Dust Devil Electrodynamics to Martian Atmospheric Electricity. Space Science Reviews, 2016, 203, 299-345.	3.7	72
25	On the microphysical effects of observed cloud edge charging. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 2690-2699.	1.0	34
26	Focus on high energy particles and atmospheric processes. Environmental Research Letters, 2015, 10, 100201.	2.2	0
27	Note: A balloon-borne accelerometer technique for measuring atmospheric turbulence. Review of Scientific Instruments, 2015, 86, 016109.	0.6	18
28	Energetic Particle Influence on the Earthâ€™s Atmosphere. Space Science Reviews, 2015, 194, 1-96.	3.7	183
29	Vertical profile measurements of lower troposphere ionisation. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 119, 203-210.	0.6	31
30	Detection of Lower Tropospheric Responses to Solar Energetic Particles at Midlatitudes. Physical Review Letters, 2014, 112, 225001.	2.9	36
31	Space weather influences on atmospheric electricity. Weather, 2014, 69, 238-241.	0.6	12
32	Influence of short-term solar disturbances on the fair weather conduction current. Journal of Space Weather and Space Climate, 2014, 4, A26.	1.1	19
33	Space weather driven changes in lower atmosphere phenomena. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 98, 22-30.	0.6	18
34	Triboelectric Charging of Volcanic Ash from the 2011 GrÃmsvÃ¶tn Eruption. Physical Review Letters, 2013, 111, 118501.	2.9	41
35	Balloon-borne disposable radiometer for cloud detection. Review of Scientific Instruments, 2012, 83, 025111.	0.6	17
36	Recent advances in global electric circuit coupling between the space environment and the troposphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 90-91, 198-211.	0.6	130

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37	Measurements of Atmospheric Electricity Aloft. Surveys in Geophysics, 2012, 33, 991-1057.	2.1	48
38	Experimental determination of layer cloud edge charging from cosmic ray ionisation. Geophysical Research Letters, 2010, 37, .	1.5	57
39	Vertical current flow through extensive layer clouds. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 2040-2046.	0.6	29
40	An Overview of Earthâ€™s Global Electric Circuit andÂAtmospheric Conductivity. Space Science Reviews, 2008, 137, 83-105.	3.7	192
41	Air-earth current density measurements at Lerwick; implications for seasonality in the global electric circuit. Atmospheric Research, 2008, 89, 181-193.	1.8	17
42	A double Gerdien instrument for simultaneous bipolar air conductivity measurements on balloon platforms. Review of Scientific Instruments, 2008, 79, 084502.	0.6	8