

# Keri A Nicoll

## List of Publications by Year in descending order

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Version: 2024-02-01

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	An Overview of Earth's Global Electric Circuit and Atmospheric Conductivity. <i>Space Science Reviews</i> , 2008, 137, 83-105.	3.7	192
2	Energetic Particle Influence on the Earth's Atmosphere. <i>Space Science Reviews</i> , 2015, 194, 1-96.	3.7	183
3	Recent advances in global electric circuit coupling between the space environment and the troposphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 90-91, 198-211.	0.6	130
4	Applications of Electrified Dust and Dust Devil Electrodynamics to Martian Atmospheric Electricity. <i>Space Science Reviews</i> , 2016, 203, 299-345.	3.7	72
5	Fair weather criteria for atmospheric electricity measurements. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018, 179, 239-250.	0.6	72
6	A global atmospheric electricity monitoring network for climate and geophysical research. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2019, 184, 18-29.	0.6	71
7	Experimental determination of layer cloud edge charging from cosmic ray ionisation. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	57
8	Measurements of Atmospheric Electricity Aloft. <i>Surveys in Geophysics</i> , 2012, 33, 991-1057.	2.1	48
9	Triboelectric Charging of Volcanic Ash from the 2011 GrÃmsvÃtn Eruption. <i>Physical Review Letters</i> , 2013, 111, 118501.	2.9	41
10	Stratiform cloud electrification: comparison of theory with multiple in-cloud measurements. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2016, 142, 2679-2691.	1.0	38
11	Detection of Lower Tropospheric Responses to Solar Energetic Particles at Midlatitudes. <i>Physical Review Letters</i> , 2014, 112, 225001.	2.9	36
12	On the microphysical effects of observed cloud edge charging. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2015, 141, 2690-2699.	1.0	34
13	Vertical profile measurements of lower troposphere ionisation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014, 119, 203-210.	0.6	31
14	Vertical current flow through extensive layer clouds. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 2040-2046.	0.6	29
15	Saharan dust plume charging observed over the UK. <i>Environmental Research Letters</i> , 2018, 13, 054018.	2.2	23
16	Challenges in coupling atmospheric electricity with biological systems. <i>International Journal of Biometeorology</i> , 2021, 65, 45-58.	1.3	23
17	On the detection and attribution of gravity waves generated by the 20 March 2015 solar eclipse. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150222.	1.6	21
18	Influence of short-term solar disturbances on the fair weather conduction current. <i>Journal of Space Weather and Space Climate</i> , 2014, 4, A26.	1.1	19

#	ARTICLE	IF	CITATIONS
19	Space weather driven changes in lower atmosphere phenomena. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 98, 22-30.	0.6	18
20	Note: A balloon-borne accelerometer technique for measuring atmospheric turbulence. <i>Review of Scientific Instruments</i> , 2015, 86, 016109.	0.6	18
21	Electrical sensing of the dynamical structure of the planetary boundary layer. <i>Atmospheric Research</i> , 2018, 202, 81-95.	1.8	18
22	Air-earth current density measurements at Lerwick; implications for seasonality in the global electric circuit. <i>Atmospheric Research</i> , 2008, 89, 181-193.	1.8	17
23	Balloon-borne disposable radiometer for cloud detection. <i>Review of Scientific Instruments</i> , 2012, 83, 025111.	0.6	17
24	First In Situ Observations of Gaseous Volcanic Plume Electrification. <i>Geophysical Research Letters</i> , 2019, 46, 3532-3539.	1.5	16
25	Coordinated weather balloon solar radiation measurements during a solar eclipse. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150221.	1.6	15
26	Atmospheric electrical field measurements near a fresh water reservoir and the formation of the lake breeze. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 68, 31592.	0.8	13
27	Evaluating stratiform cloud base charge remotely. <i>Geophysical Research Letters</i> , 2017, 44, 6407-6412.	1.5	13
28	Space weather influences on atmospheric electricity. <i>Weather</i> , 2014, 69, 238-241.	0.6	12
29	Precipitation Modification by Ionization. <i>Physical Review Letters</i> , 2020, 124, 198701.	2.9	11
30	Extensive layer clouds in the global electric circuit: their effects on vertical charge distribution and storage. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2020, 476, 20190758.	1.0	11
31	A double Gerdien instrument for simultaneous bipolar air conductivity measurements on balloon platforms. <i>Review of Scientific Instruments</i> , 2008, 79, 084502.	0.6	8
32	Note: A self-calibrating wide range electrometer for in-cloud measurements. <i>Review of Scientific Instruments</i> , 2017, 88, 126109.	0.6	7
33	Consistent dust electrification from Arabian Gulf sea breezes. <i>Environmental Research Letters</i> , 2020, 15, 084050.	2.2	7
34	Point discharge current measurements beneath dust devils. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 150-151, 55-60.	0.6	6
35	Periodicities in fair weather potential gradient data from multiple stations at different latitudes. <i>Atmospheric Research</i> , 2022, 276, 106250.	1.8	6
36	Balloon measurements of the vertical ionization profile over southern Israel and comparison to mid-latitude observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 149, 87-92.	0.6	5

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37	Shear-induced electrical changes in the base of thin layer cloud. Quarterly Journal of the Royal Meteorological Society, 2019, 145, 3667-3679.	1.0	5
38	Characteristics of Desert Precipitation in the UAE Derived from a Ceilometer Dataset. Atmosphere, 2021, 12, 1245.	1.0	5
39	Measuring Global Signals in the Potential Gradient at High Latitude Sites. Frontiers in Earth Science, 2021, 8, .	0.8	4
40	Modifying natural droplet systems by charge injection. Physical Review Research, 2022, 4, .	1.3	2
41	Focus on high energy particles and atmospheric processes. Environmental Research Letters, 2015, 10, 100201.	2.2	0
42	Editorial: Advances in lightning detection. Weather, 2017, 72, 31-31.	0.6	0