Karen Aplin

List of Publications by Year
in descending order

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Version: 2024-02-01

44	1,127	516215 16	414034 32
papers	citations	h-index	g-index

60	60	60	1410
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Energetic Particle Influence on the Earthâ€™s Atmosphere. Space Science Reviews, 2015, 194, 1-96.	3.7	183
2	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
3	Results from the CERN pilot CLOUD experiment. Atmospheric Chemistry and Physics, 2010, 10, 1635-1647.	1.9	96
4	Atmospheric Electrification in the Solar System. Surveys in Geophysics, 2006, 27, 63-108.	2.1	75
5	Applications of Electrified Dust and Dust Devil Electrodynamics to Martian Atmospheric Electricity. Space Science Reviews, 2016, 203, 299-345.	3.7	72
6	Investigating Earthâ€™s Atmospheric Electricity: aÂRole Model for Planetary Studies. Space Science Reviews, 2008, 137, 11-27.	3.7	53
7	Triboelectric Charging of Volcanic Ash from the 2011 GrÃmsvÃ¶tn Eruption. Physical Review Letters, 2013, 111, 118501.	2.9	41
8	Atmospheric changes from solar eclipses. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150217.	1.6	39
9	A computer-controlled Gerdien atmospheric ion counter. Review of Scientific Instruments, 2000, 71, 3037-3041.	0.6	38
10	Electrifying Atmospheres: Charging, Ionisation and Lightning in the Solar System and Beyond. SpringerBriefs in Astronomy, 2013, , .	1.6	34
11	Brief Communication: Earthquakeâ€“cloud coupling through the global atmospheric electric circuit. Natural Hazards and Earth System Sciences, 2014, 14, 773-777.	1.5	28
12	Smoke emissions from industrial western Scotland in 1859 inferred from Lord Kelvinâ€™s atmospheric electricity measurements. Atmospheric Environment, 2012, 50, 373-376.	1.9	26
13	Schumann Resonances as a Means of Investigating theÂElectromagnetic Environment inÂthe SolarÂSystem. Space Science Reviews, 2008, 137, 455-471.	3.7	22
14	Planetary Atmospheric Electricity. Space Science Reviews, 2008, 137, 5-10.	3.7	20
15	Atmospheric Electrification in Dusty, Reactive Gases in the Solar System and Beyond. Surveys in Geophysics, 2016, 37, 705-756.	2.1	19
16	Lord Kelvin's atmospheric electricity measurements. History of Geo- and Space Sciences, 2013, 4, 83-95.	0.1	18
17	Electromagnetic wave propagation in the surfaceâ€“ionosphere cavity of Venus. Journal of Geophysical Research, 2008, 113, .	3.3	17
18	Aspirated capacitor measurements of air conductivity and ion mobility spectra. Review of Scientific Instruments, 2005, 76, 104501.	0.6	16

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19	Determining solar effects in Neptuneâ€™s atmosphere. Nature Communications, 2016, 7, 11976.	5.8	16
20	First In Situ Observations of Gaseous Volcanic Plume Electrification. Geophysical Research Letters, 2019, 46, 3532-3539.	1.5	16
21	Composition and Measurement of Charged Atmospheric Clusters. Space Science Reviews, 2008, 137, 213-224.	3.7	15
22	Atmospheric Electricity at the Ice Giants. Space Science Reviews, 2020, 216, 1.	3.7	14
23	Meteorological phenomena in Western classical orchestral music. Weather, 2011, 66, 300-306.	0.6	13
24	Evaluating stratiform cloud base charge remotely. Geophysical Research Letters, 2017, 44, 6407-6412.	1.5	13
25	Measuring ionizing radiation in the atmosphere with a new balloonâ€borne detector. Space Weather, 2017, 15, 663-672.	1.3	11
26	Precipitation Modification by Ionization. Physical Review Letters, 2020, 124, 198701.	2.9	11
27	Cosmic ray modulation of infra-red radiation in the atmosphere. Environmental Research Letters, 2013, 8, 015026.	2.2	10
28	Lightning detection in planetary atmospheres. Weather, 2017, 72, 46-50.	0.6	9
29	An infrared filter radiometer for atmospheric cluster-ion detection. Review of Scientific Instruments, 2008, 79, 106107.	0.6	8
30	Atmospheric electric fields during the Carrington flare. Astronomy and Geophysics, 2014, 55, 5.32-5.37.	0.1	8
31	Initiation of a lightning search using the lightning and airglow camera onboard the Venus orbiter Akatsuki. Earth, Planets and Space, 2018, 70, 88.	0.9	8
32	Solarâ€Driven Variation in the Atmosphere of Uranus. Geophysical Research Letters, 2017, 44, 12,083.	1.5	7
33	Effectiveness of Martian regolith as a radiation shield. Planetary and Space Science, 2022, 218, 105517.	0.9	6
34	Compact cosmic ray detector for unattended atmospheric ionization monitoring. Review of Scientific Instruments, 2010, 81, 124501.	0.6	5
35	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
36	The Atmospheric Structure of the Ice Giant Planets from In Situ Measurements by Entry Probes. Space Science Reviews, 2020, 216, 1.	3.7	5

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37	Introduction to the special issue â€œAtmospheric electrical observatoriesâ€• History of Geo- and Space Sciences, 2020, 11, 137-138.	0.1	3
38	Whether weather affects music. Eos, 2012, 93, 347-348.	0.1	2
39	Atmospheric electricity at Durham: the scientific contributions and legacy of J. A. (“Skip”) Chalmers (1904–1967). History of Geo- and Space Sciences, 2018, 9, 25-35.	0.1	2
40	Stratospheric Xâ€Rays Detected at Midlatitudes With a Miniaturized Balloonâ€Borne Microscintillatorâ€PiN Diode System. Space Weather, 2021, 19, e2021SW002809.	1.3	2
41	Is there a Rhythm Of The Rain? An analysis of weather in popular music. Weather, 2015, 70, 198-204.	0.6	1
42	Weather scientists cite Bob Dylan too. BMJ, The, 2016, 532, i265.	3.0	1
43	A scientific career launched at the start of the space age: Michael Rycroft at 80. History of Geo- and Space Sciences, 2020, 11, 105-121.	0.1	0
44	Meteorological effects and impacts of the 10 June 2021 solar eclipse over the British Isles, Iceland and Greenland. Weather, 0, , .	0.6	0