Colin G Price

List of Publications by Year
in descending order

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104 papers	5,626 citations	94269 37 h-index	88477 70 g-index
115 all docs	115 docs citations	115 times ranked	4330 citing authors

#	Article	IF	Citations
1	A simple lightning parameterization for calculating global lightning distributions. Journal of Geophysical Research, 1992, 97, 9919-9933.	3.3	680
2	NOxfrom lightning: 1. Global distribution based on lightning physics. Journal of Geophysical Research, 1997, 102, 5929-5941.	3.3	484
3	The global atmospheric electric circuit, solar activity and climate change. Journal of Atmospheric and Solar-Terrestrial Physics, 2000, 62, 1563-1576.	0.6	333
4	Possible implications of global climate change on global lightning distributions and frequencies. Journal of Geophysical Research, 1994, 99, 10823.	3.3	216
5	High-impact floods and flash floods in Mediterranean countries: the FLASH preliminary database. Advances in Geosciences, 0, 23, 47-55.	12.0	213
6	Modeling Global Lightning Distributions in a General Circulation Model. Monthly Weather Review, 1994, 122, 1930-1939.	0.5	167
7	Flash flood prediction using an uncalibrated hydrological model and radar rainfall data in a Mediterranean watershed under changing hydrological conditions. Journal of Hydrology, 2010, 394, 245-255.	2.3	149
8	A possible link between El NiÃ±o and precipitation in Israel. Geophysical Research Letters, 1998, 25, 3963-3966.	1.5	133
9	Evidence for a link between global lightning activity and upper tropospheric water vapour. Nature, 2000, 406, 290-293.	13.7	129
10	Predicting the potential for lightning activity in Mediterranean storms based on the Weather Research and Forecasting (WRF) model dynamic and microphysical fields. Journal of Geophysical Research, 2010, 115, .	3.3	121
11	Global surface temperatures and the atmospheric electrical circuit. Geophysical Research Letters, 1993, 20, 1363-1366.	1.5	118
12	Maximum hurricane intensity preceded by increase in lightning frequency. Nature Geoscience, 2009, 2, 329-332.	5.4	107
13	Analysis of tropicalâ€like cyclones over the Mediterranean Sea through a combined modeling and satellite approach. Geophysical Research Letters, 2013, 40, 2400-2405.	1.5	104
14	Lightning flashes conducive to the production and escape of gamma radiation to space. Journal of Geophysical Research, 2006, 111, .	3.3	95
15	Lightning response to smoke from Amazonian fires. Geophysical Research Letters, 2010, 37, .	1.5	94
16	Title is missing!. Climatic Change, 1998, 39, 273-296.	1.7	89
17	Will a drier climate result in more lightning?. Atmospheric Research, 2009, 91, 479-484.	1.8	83
18	Diurnal, seasonal and inter-annual variations in the Schumann resonance parameters. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 1179-1185.	0.6	81

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19	Lightning-rainfall relationships in Mediterranean winter thunderstorms. Geophysical Research Letters, 2006, 33, .	1.5	78
20	Lightning Applications in Weather and Climate Research. Surveys in Geophysics, 2013, 34, 755-767.	2.1	73
21	Predicting Cloud-to-Ground and Intracloud Lightning in Weather Forecast Models. Weather and Forecasting, 2012, 27, 1470-1488.	0.5	68
22	Properties of terrestrial gamma ray flashes detected by AGILE MCAL below 30â€‰MeV. Journal of Geophysical Research: Space Physics, 2014, 119, 1337-1355.	0.8	66
23	World-wide lightning location using VLF propagation in the Earth-ionosphere waveguide. IEEE Antennas and Propagation Magazine, 2008, 50, 40-60.	1.2	65
24	New observations of sprites from the space shuttle. Journal of Geophysical Research, 2004, 109, .	3.3	64
25	Schumann resonance parameters calculated with a partially uniform knee model on Earth, Venus, Mars, and Titan. Radio Science, 2004, 39, n/a-n/a.	0.8	62
26	NOxfrom lightning: 2. Constraints from the global atmospheric electric circuit. Journal of Geophysical Research, 1997, 102, 5943-5951.	3.3	61
27	Nowcasting thunderstorms in the Mediterranean region using lightning data. Atmospheric Research, 2011, 100, 489-502.	1.8	61
28	<i>Letter to the Editor</i> Intense oceanic lightning. Annales Geophysicae, 2002, 20, 133-137.	0.6	60
29	ELF Electromagnetic Waves from Lightning: The Schumann Resonances. Atmosphere, 2016, 7, 116.	1.0	60
30	Can Lightning Observations be Used as an Indicator of Upper-Tropospheric Water Vapor Variability?. Bulletin of the American Meteorological Society, 2006, 87, 291-298.	1.7	58
31	Infrasound Array Analysis of Debris Flow Activity and Implication for Early Warning. Journal of Geophysical Research F: Earth Surface, 2019, 124, 567-587.	1.0	50
32	Local and global impacts on the fair-weather electric field in Israel. Atmospheric Research, 2016, 172-173, 119-125.	1.8	48
33	Ionospheric potential as a proxy index for global temperature. Atmospheric Research, 1999, 51, 309-314.	1.8	46
34	Warm Season Lightning Probability Prediction for Canada and the Northern United States. Weather and Forecasting, 2005, 20, 971-988.	0.5	46
35	East African lightning as a precursor of Atlantic hurricane activity. Geophysical Research Letters, 2007, 34, .	1.5	42
36	El NiÃ±o Chaos: The role of noise and stochastic resonance on the ENSO cycle. Geophysical Research Letters, 1998, 25, 175-178.	1.5	39

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37	An improved ELF/VLF method for globally geolocating sprite-producing lightning. Geophysical Research Letters, 2002, 29, 1-1.	1.5	39
38	Sprite discharges on Venus and Jupiterâ€like planets: A laboratory investigation. Journal of Geophysical Research, 2010, 115, .	3.3	39
39	On the spatial and temporal distribution of global thunderstorm cells. Environmental Research Letters, 2014, 9, 124023.	2.2	39
40	First detection of transient luminous events associated with winter thunderstorms in the eastern Mediterranean. Geophysical Research Letters, 2007, 34, .	1.5	37
41	Cardioprotection from stress conditions by weak magnetic fields in the Schumann Resonance band. Scientific Reports, 2019, 9, 1645.	1.6	37
42	Lightning Sensors for Observing, Tracking and Nowcasting Severe Weather. Sensors, 2008, 8, 157-170.	2.1	36
43	Using Lightning Data to Better Understand and Predict Flash Floods in the Mediterranean. Surveys in Geophysics, 2011, 32, 733-751.	2.1	36
44	Lightning: A New Essential Climate Variable. Eos, 2018, 99, .	0.1	36
45	Influence of solar terminator passages on Schumann resonance parameters. Journal of Atmospheric and Solar-Terrestrial Physics, 2004, 66, 1187-1194.	0.6	35
46	Optical observations of transient luminous events associated with winter thunderstorms near the coast of Israel. Atmospheric Research, 2009, 91, 529-537.	1.8	34
47	Relative importance of the day-night asymmetry in Schumann resonance amplitude records. Radio Science, 2007, 42, n/a-n/a.	0.8	33
48	On the Use of VLF Narrowband Measurements to Study the Lower Ionosphere and the Mesosphereâ€“Lower Thermosphere. Surveys in Geophysics, 2017, 38, 407-441.	2.1	32
49	The FLASH Project: using lightning data to better understand and predict flash floods. Environmental Science and Policy, 2011, 14, 898-911.	2.4	31
50	ELF transients associated with sprites and elves in eastern Mediterranean winter thunderstorms. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 1569-1586.	0.6	29
51	Inferred long term trends in lightning activity over Africa. Earth, Planets and Space, 2006, 58, 1197-1201.	0.9	28
52	Using a cloud electrification model to study relationships between lightning activity and cloud microphysical structure. Natural Hazards and Earth System Sciences, 2013, 13, 1085-1104.	1.5	28
53	Ground-based detection of TLE-producing intense lightning during the MEIDEX mission on board the space shuttleColumbia. Geophysical Research Letters, 2004, 31, .	1.5	27
54	Transient airglow enhancements observed from the space shuttle Columbia during the MEIDEX sprite campaign. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	26

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55	Natural ELF fields in the atmosphere and in living organisms. International Journal of Biometeorology, 2021, 65, 85-92.	1.3	24
56	Lightning flash multiplicity in eastern Mediterranean thunderstorms. Natural Hazards and Earth System Sciences, 2014, 14, 165-173.	1.5	23
57	Challenges in coupling atmospheric electricity with biological systems. International Journal of Biometeorology, 2021, 65, 45-58.	1.3	23
58	The impact of the August 27, 1998, Î³-ray burst on the Schumann resonances. Journal of Atmospheric and Solar-Terrestrial Physics, 2001, 63, 1043-1047.	0.6	22
59	Indication for circular organization of column sprite elements associated with Eastern Mediterranean winter thunderstorms. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1835-1839.	0.6	20
60	Diurnal variations of ELF transients and background noise in the Schumann resonance band. Radio Science, 2007, 42, n/a-n/a.	0.8	19
61	Thunderstorm Trends over Africa. Journal of Climate, 2020, 33, 2741-2755.	1.2	19
62	A global lightning location algorithm based on the electromagnetic signature in the Schumann resonance band. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	18
63	Links between mesopause temperatures and groundâ€based VLF narrowband radio signals. Journal of Geophysical Research D: Atmospheres, 2013, 118, 4244-4255.	1.2	18
64	Effects of Energetic Solar Emissions on the Earthâ€“Ionosphere Cavity of Schumann Resonances. Surveys in Geophysics, 2016, 37, 757-789.	2.1	18
65	Lightning activity during the 1999 Superior derecho. Geophysical Research Letters, 2002, 29, 57-1-57-4.	1.5	16
66	Using smartphones for monitoring atmospheric tides. Journal of Atmospheric and Solar-Terrestrial Physics, 2018, 174, 1-4.	0.6	16
67	Why is lightning more intense over the oceans?. Journal of Atmospheric and Solar-Terrestrial Physics, 2020, 202, 105259.	0.6	16
68	Evolution of Global Lightning in the Transition From Cold to Warm Phase Preceding Two Super El NiÃ±o Events. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033526.	1.2	16
69	Space shuttle observation of an unusual transient atmospheric emission. Geophysical Research Letters, 2005, 32, .	1.5	15
70	Influence of Magnetic Field with Schumann Resonance Frequencies on Photosynthetic Light Reactions in Wheat and Pea. Cells, 2021, 10, 149.	1.8	15
71	Model variations of Schumann resonance based on Optical Transient Detector maps of global lightning activity. Journal of Geophysical Research, 2006, 111, .	3.3	14
72	Sprite climatology in the Eastern Mediterranean Region. Atmospheric Research, 2015, 157, 108-118.	1.8	14

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73	First ground-based observations of mesopause temperatures above the Eastern-Mediterranean Part II: OH*-climatology and gravity wave activity. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 155, 104-111.	0.6	14
74	ELF/VLF signatures of sprite-producing lightning discharges observed during the 2005 EuroSprite campaign. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 1254-1266.	0.6	13
75	Thunderstorms, Lightning and Climate Change. , 2009, , 521-535.		13
76	Estimation of sprite occurrences in Central Africa. Meteorologische Zeitschrift, 2002, 11, 99-104.	0.5	13
77	Schumann resonances: Interpretation of local diurnal intensity modulations. Radio Science, 2006, 41, n/a-n/a.	0.8	12
78	A new approach for monitoring the 27â€day solar rotation using VLF radio signals on the Earth's surface. Journal of Geophysical Research, 2009, 114, .	3.3	12
79	Do West African thunderstorms predict the intensity of Atlantic hurricanes?. Geophysical Research Letters, 2015, 42, 2457-2463.	1.5	12
80	GLOBAL THUNDERSTORM ACTIVITY. , 2006, , 85-99.		11
81	Natural atmospheric noise statistics from VLF measurements in the eastern Mediterranean. Radio Science, 2010, 45, n/a-n/a.	0.8	11
82	Ground-based observations of the relations between lightning charge-moment-change and the physical and optical properties of column sprites. Journal of Atmospheric and Solar-Terrestrial Physics, 2014, 107, 60-67.	0.6	11
83	Anomalously strong vertical magnetic fields from distant ELF/VLF sources. Journal of Geophysical Research: Space Physics, 2015, 120, 6036-6044.	0.8	11
84	Semi-annual oscillation (SAO) of the nighttime ionospheric DÂregion as detected through ground-based VLF receivers. Atmospheric Chemistry and Physics, 2016, 16, 3279-3288.	1.9	11
85	ELF/VLF Radiation Produced by the 1999 Leonid Meteors. Earth, Moon and Planets, 1998, 82/83, 545-554.	0.3	10
86	A case study on the ELF characterization of the Earthâ€“ionosphere cavity: Forecasting the Schumann resonance intensities. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 669-674.	0.6	9
87	Glossary on atmospheric electricity and its effects on biology. International Journal of Biometeorology, 2021, 65, 5-29.	1.3	9
88	Effect of extremely low-frequency magnetic fields on light-induced electric reactions in wheat. Plant Signaling and Behavior, 2022, 17, 2021664.	1.2	9
89	Hurst exponent derived for natural terrestrial radio noise in Schumann resonance band. Geophysical Research Letters, 2000, 27, 3185-3188.	1.5	8
90	Intra-annual variations of spectrally resolved gravity wave activity in the upper mesosphere/lower thermosphere (UMLT) region. Atmospheric Measurement Techniques, 2020, 13, 5117-5128.	1.2	8

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91	First ground-based observations of mesopause temperatures above the Eastern-Mediterranean Part I: Multi-day oscillations and tides. Journal of Atmospheric and Solar-Terrestrial Physics, 2017, 155, 95-103.	0.6	7
92	Ocean acidification may be increasing the intensity of lightning over the oceans. Scientific Reports, 2020, 10, 21847.	1.6	6
93	The global electric circuit landâ€“ocean response to the El NiÃ±oâ€”Southern Oscillation. Atmospheric Research, 2021, 260, 105626.	1.8	6
94	The likelihood of winter sprites over the Gulf Stream. Geophysical Research Letters, 2002, 29, 27-1-27-4.	1.5	5
95	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
96	On the electrophonic generation of audio frequency sound by meteors. Geophysical Research Letters, 2017, 44, 2987-2990.	1.5	5
97	Electric Field Measurements in the Antarctic Reveal Patterns Related to the El NiÃ±oâ€”Southern Oscillation. Geophysical Research Letters, 2021, 48, e2021GL095389.	1.5	5
98	Transport of Water Vapor from Tropical Cyclones to the Upper Troposphere. Atmosphere, 2021, 12, 1506.	1.0	4
99	Infrasound observations of sprites associated with winter thunderstorms in the eastern mediterranean. Atmospheric Research, 2020, 235, 104770.	1.8	3
100	The Possible Effect of Seawater Total Alkalinity on Lightning Flash Intensityâ€”An Experimental Approach. Geophysical Research Letters, 2021, 48, e2021GL093654.	1.5	2
101	The connection between meteor showers and VLF atmospheric noise signals. Journal of Atmospheric Electricity, 2011, 31, 23-36.	0.1	2
102	Lightning Characteristics of Extreme Weather Events. , 2009, , 487-507.		2
103	ULF amplitude observations at the dawn/dusk terminators. Journal of Atmospheric Electricity, 2008, 28, 21-29.	0.1	1
104	Classification of Infrasonic Atmospheric Events Using Electromagnetic Pulse Analysis. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	0