

Bruce Dawson

List of Publications by Year in descending order

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83
papers

5,482
citations

101543

36
h-index

76900

74
g-index

84
all docs

84
docs citations

84
times ranked

3007
citing authors

#	ARTICLE	IF	CITATIONS
1	Correlation of the Highest-Energy Cosmic Rays with Nearby Extragalactic Objects. <i>Science</i> , 2007, 318, 938-943.	12.6	647
2	Evidence for correlated changes in the spectrum and composition of cosmic rays at extremely high energies. <i>Physical Review Letters</i> , 1993, 71, 3401-3404.	7.8	417
3	Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei. <i>Astroparticle Physics</i> , 2008, 29, 188-204.	4.3	305
4	Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter. <i>Astroparticle Physics</i> , 2010, 34, 314-326.	4.3	270
5	Observation of a large-scale anisotropy in the arrival directions of cosmic rays above 8×10^{18} eV. <i>Science</i> , 2017, 357, 1266-1270.	12.6	261
6	Measurement of the Flux of Ultrahigh Energy Cosmic Rays from Monocular Observations by the High Resolution Fly's Eye Experiment. <i>Physical Review Letters</i> , 2004, 92, 151101.	7.8	233
7	Measurement of the Cosmic Ray Energy Spectrum and Composition from 1017 to 1018.3 eV Using a Hybrid Technique. <i>Astrophysical Journal</i> , 2001, 557, 686-699.	4.5	173
8	Evidence for Changing of Cosmic Ray Composition between 1017 and 1018 eV from Multicomponent Measurements. <i>Physical Review Letters</i> , 2000, 84, 4276-4279.	7.8	172
9	A Study of the Composition of Ultra-High Energy Cosmic Rays Using the High Resolution Fly's Eye. <i>Astrophysical Journal</i> , 2005, 622, 910-926.	4.5	170
10	An Indication of Anisotropy in Arrival Directions of Ultra-high-energy Cosmic Rays through Comparison to the Flux Pattern of Extragalactic Gamma-Ray Sources. <i>Astrophysical Journal Letters</i> , 2018, 853, L29.	8.3	165
11	Testing Hadronic Interactions at Ultrahigh Energies with Air Showers Measured by the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2016, 117, 192001.	7.8	154
12	SEARCHES FOR ANISOTROPIES IN THE ARRIVAL DIRECTIONS OF THE HIGHEST ENERGY COSMIC RAYS DETECTED BY THE PIERRE AUGER OBSERVATORY. <i>Astrophysical Journal</i> , 2015, 804, 15.	4.5	146
13	Upper Limit on the Diffuse Flux of Ultrahigh Energy Tau Neutrinos from the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2008, 100, 211101.	7.8	141
14	Upper limit on the cosmic-ray photon fraction at EeV energies from the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2009, 31, 399-406.	4.3	117
15	Monocular measurement of the spectrum of UHE cosmic rays by the FADC detector of the HiRes experiment. <i>Astroparticle Physics</i> , 2005, 23, 157-174.	4.3	98
16	Cosmic-ray composition around 1018 eV. <i>Physical Review D</i> , 1993, 47, 1919-1932.	4.7	96
17	Antennas for the detection of radio emission pulses from cosmic-ray induced air showers at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2012, 7, P10011-P10011.	1.2	95
18	An upper limit to the photon fraction in cosmic rays above 1019 eV from the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2007, 27, 155-168.	4.3	90

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19	A study of the effect of molecular and aerosol conditions in the atmosphere on air fluorescence measurements at the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2010, 33, 108-129.	4.3	84
20	Southern hemisphere observations of a 1018 eV cosmic ray source near the direction of the Galactic Centre. <i>Astroparticle Physics</i> , 2001, 15, 167-175.	4.3	77
21	Large-scale Cosmic-Ray Anisotropies above 4 EeV Measured by the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2018, 868, 4.	4.5	77
22	Search for first harmonic modulation in the right ascension distribution of cosmic rays detected at the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2011, 34, 627-639.	4.3	73
23	SEARCHES FOR LARGE-SCALE ANISOTROPY IN THE ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE ENERGY OF 10^{19} eV AT THE PIERRE AUGER OBSERVATORY AND THE TELESCOPE ARRAY. <i>Astrophysical Journal</i> , 2014, 794, 172.	4.5	72
24	Evidence for 1018-eV Neutral Particles from the Direction of Cygnus X-3. <i>Physical Review Letters</i> , 1989, 62, 383-386.	7.8	66
25	Description of atmospheric conditions at the Pierre Auger Observatory using the Global Data Assimilation System (GDAS). <i>Astroparticle Physics</i> , 2012, 35, 591-607.	4.3	66
26	SEARCH FOR POINT-LIKE SOURCES OF ULTRA-HIGH ENERGY NEUTRINOS AT THE PIERRE AUGER OBSERVATORY AND IMPROVED LIMIT ON THE DIFFUSE FLUX OF TAU NEUTRINOS. <i>Astrophysical Journal Letters</i> , 2012, 755, L4.	8.3	55
27	The exposure of the hybrid detector of the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2011, 34, 368-381.	4.3	54
28	Energy estimation of UHE cosmic rays using the atmospheric fluorescence technique. <i>Astroparticle Physics</i> , 2000, 14, 7-13.	4.3	52
29	Anisotropy studies around the galactic centre at EeV energies with the Auger Observatory. <i>Astroparticle Physics</i> , 2007, 27, 244-253.	4.3	51
30	LARGE SCALE DISTRIBUTION OF ULTRA HIGH ENERGY COSMIC RAYS DETECTED AT THE PIERRE AUGER OBSERVATORY WITH ZENITH ANGLES UP TO 80° . <i>Astrophysical Journal</i> , 2015, 802, 111.	4.5	49
31	A comparison of cosmic ray composition measurements at the highest energies. <i>Astroparticle Physics</i> , 1998, 9, 331-338.	4.3	47
32	LARGE-SCALE DISTRIBUTION OF ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE 10^{18} eV AT THE PIERRE AUGER OBSERVATORY. <i>Astrophysical Journal</i> , Supplement Series, 2012, 203, 34.	7.7	44
33	A measurement of the average longitudinal development profile of cosmic ray air showers between 1017 and 1018 eV. <i>Astroparticle Physics</i> , 2001, 16, 1-11.	4.3	43
34	Atmospheric effects on extensive air showers observed with the surface detector of the Pierre Auger observatory. <i>Astroparticle Physics</i> , 2009, 32, 89-99.	4.3	43
35	Measurements of cosmic-ray air shower development at energies above 10 to the 17th eV. <i>Astrophysical Journal</i> , 1990, 356, 669.	4.5	43
36	Prototype muon detectors for the AMIGA component of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2016, 11, P02012-P02012.	1.2	38

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37	Extremely high energy cosmic rays. <i>Physics Reports</i> , 1992, 217, 225-277.	25.6	37
38	Search for Point Sources of Ultra-High Energy Cosmic Rays above 4.0×10^{19} eV Using a Maximum Likelihood Ratio Test. <i>Astrophysical Journal</i> , 2005, 623, 164-170.	4.5	35
39	Search for diffuse cosmic gamma rays above 200 TeV. <i>Astrophysical Journal</i> , 1991, 375, 202.	4.5	33
40	A Cloud Monitoring System for Remote Sites. <i>Publications of the Astronomical Society of Australia</i> , 1998, 15, 332-335.	3.4	32
41	Search for signatures of magnetically-induced alignment in the arrival directions measured by the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2012, 35, 354-361.	4.3	32
42	3 to 12 millimetre studies of dense gas towards the western rim of supernova remnant RX J1713.7-3946. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 422, 2230-2245.	4.4	31
43	A SEARCH FOR POINT SOURCES OF EeV PHOTONS. <i>Astrophysical Journal</i> , 2014, 789, 160.	4.5	29
44	A SEARCH FOR POINT SOURCES OF EeV NEUTRONS. <i>Astrophysical Journal</i> , 2012, 760, 148.	4.5	27
45	Detection of ultra-high energy cosmic ray showers with a single-pixel fluorescence telescope. <i>Astroparticle Physics</i> , 2016, 74, 64-72.	4.3	26
46	Arrival directions of the southern highest energy cosmic rays. <i>Astroparticle Physics</i> , 1996, 5, 69-74.	4.3	25
47	The rapid atmospheric monitoring system of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2012, 7, P09001-P09001.	1.2	24
48	Results of a self-triggered prototype system for radio-detection of extensive air showers at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2012, 7, P11023-P11023.	1.2	24
49	A Targeted Search for Point Sources of EeV Photons with the Pierre Auger Observatory. <i>Astrophysical Journal Letters</i> , 2017, 837, L25.	8.3	21
50	Calibration of the logarithmic-periodic dipole antenna (LPDA) radio stations at the Pierre Auger Observatory using an octocopter. <i>Journal of Instrumentation</i> , 2017, 12, T10005-T10005.	1.2	21
51	Simulations of a giant hybrid air shower detector. <i>Astroparticle Physics</i> , 1996, 5, 239-247.	4.3	20
52	Design and development of a simple infrared monitor for cloud detection. <i>Energy Conversion and Management</i> , 2009, 50, 2732-2737.	9.2	20
53	Nanosecond-level time synchronization of autonomous radio detector stations for extensive air showers. <i>Journal of Instrumentation</i> , 2016, 11, P01018-P01018.	1.2	20
54	A search for arrival direction clustering in the HiRes-I monocular data above $10^{19.5}$ eV. <i>Astroparticle Physics</i> , 2004, 22, 139-149.	4.3	18

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55	Evidence for the detection of gamma-rays up to 150 TeV from the active galaxy centaurus A. <i>Astroparticle Physics</i> , 1994, 2, 347-352.	4.3	17
56	Geometry and optics calibration for air fluorescence detectors using star light. <i>Astroparticle Physics</i> , 2002, 18, 237-248.	4.3	17
57	The Lateral Trigger Probability function for the Ultra-High Energy Cosmic Ray showers detected by the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2011, 35, 266-276.	4.3	16
58	Muon counting using silicon photomultipliers in the AMIGA detector of the Pierre Auger observatory. <i>Journal of Instrumentation</i> , 2017, 12, P03002-P03002.	1.2	16
59	Interstellar gas towards CTB 37A and the TeV gamma-ray source HESS J1714-385. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 2188-2201.	4.4	15
60	A TARGETED SEARCH FOR POINT SOURCES OF EeV NEUTRONS. <i>Astrophysical Journal Letters</i> , 2014, 789, L34.	8.3	14
61	Cosmic rays from the galactic center. <i>Astroparticle Physics</i> , 2000, 12, 249-254.	4.3	12
62	Search for global dipole enhancements in the HiRes-I monocular data above 1018.5 eV. <i>Astroparticle Physics</i> , 2004, 21, 111-123.	4.3	12
63	The lateral distribution of Cerenkov light from extensive air showers. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1989, 15, 893-908.	3.6	11
64	Geometrical reconstruction with the High Resolution Fly's Eye prototype cosmic ray detector. <i>Astroparticle Physics</i> , 1999, 12, 121-134.	4.3	10
65	Anisotropies and the Power Requirements for Galactic Cosmic Rays. <i>Publications of the Astronomical Society of Australia</i> , 1998, 15, 208-210.	3.4	9
66	Timing analysis techniques at large core distances for multi-TeV gamma ray astronomy. <i>Astroparticle Physics</i> , 2011, 34, 886-896.	4.3	8
67	Impact of atmospheric effects on the energy reconstruction of air showers observed by the surface detectors of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2017, 12, P02006-P02006.	1.2	8
68	A coarse-grain search for anisotropy in the arrival directions of cosmic rays above 10 to the 17th eV. <i>Astrophysical Journal</i> , 1990, 351, 454.	4.5	8
69	Search for γ rays above 1014 eV from Cygnus X-3 during the June and July 1989 radio outbursts. <i>Physical Review Letters</i> , 1989, 63, 2329-2332.	7.8	7
70	Limits on source distances for the most energetic cosmic rays in intergalactic magnetic fields. <i>Astroparticle Physics</i> , 1997, 7, 213-218.	4.3	7
71	Spectral calibration of the fluorescence telescopes of the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2017, 95, 44-56.	4.3	7
72	Origin of atmospheric aerosols at the Pierre Auger Observatory using studies of air mass trajectories in South America. <i>Atmospheric Research</i> , 2014, 149, 120-135.	4.1	6

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73	The angular deviation of ultra high energy cosmic rays in intergalactic magnetic fields. <i>Astroparticle Physics</i> , 1998, 9, 221-225.	4.3	5
74	Search for compact sources of cosmic photons above 200 TeV. <i>Physical Review D</i> , 1992, 46, 3248-3255.	4.7	4
75	Search for > 200 TeV photons from Cygnus X-3 in 1988 and 1989. <i>Physical Review D</i> , 1990, 42, 281-288.	4.7	3
76	Limits on Source Distances for the Most Energetic Cosmic Rays. <i>Publications of the Astronomical Society of Australia</i> , 1997, 14, 258-264.	3.4	3
77	Measurement of the angular distribution of Cerenkov light in ultra-high-energy extensive air showers. <i>Journal of Physics G: Nuclear Physics</i> , 1987, 13, 115-119.	0.8	2
78	Evidence of ultra-high-energy radiation from Scorpius X-1. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1993, 19, L1-L6.	3.6	1
79	Two-point Angular Autocorrelation Function and the Origin of the Highest-energy Cosmic Rays. <i>Publications of the Astronomical Society of Australia</i> , 2000, 17, 207-211.	3.4	1
80	Atmospheric multiple scattering of a vertically directed laser beam. <i>Astroparticle Physics</i> , 2017, 93, 38-45.	4.3	1
81	Examination of a Proposed Technique for the Economical Detection and Analysis of Ultra-high Energy Cosmic Ray Showers. <i>Australian Journal of Physics</i> , 1984, 37, 309.	0.6	1
82	The Highest Energy Cosmic Rays. <i>Annals of the New York Academy of Sciences</i> , 1995, 759, 460-463.	3.8	0
83	Recent Progress at the Pierre Auger Observatory. <i>Progress of Theoretical Physics Supplement</i> , 2003, 151, 201-205.	0.1	0