

D Z Besson

List of Publications by Year in descending order

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71
papers

4,789
citations

172457

29
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98798

67
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74
all docs

74
docs citations

74
times ranked

6409
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for High-Energy Extraterrestrial Neutrinos at the IceCube Detector. <i>Science</i> , 2013, 342, 1242856.	12.6	1,048
2	Observation of High-Energy Astrophysical Neutrinos in Three Years of IceCube Data. <i>Physical Review Letters</i> , 2014, 113, 101101.	7.8	873
3	Evidence for Astrophysical Muon Neutrinos from the Northern Sky with IceCube. <i>Physical Review Letters</i> , 2015, 115, 081102.	7.8	247
4	Time-Integrated Neutrino Source Searches with 10 Years of IceCube Data. <i>Physical Review Letters</i> , 2020, 124, 051103.	7.8	221
5	RICE limits on the diffuse ultrahigh energy neutrino flux. <i>Physical Review D</i> , 2006, 73, .	4.7	170
6	Flavor Ratio of Astrophysical Neutrinos above 35 TeV in IceCube. <i>Physical Review Letters</i> , 2015, 114, 171102.	7.8	156
7	Searches for Sterile Neutrinos with the IceCube Detector. <i>Physical Review Letters</i> , 2016, 117, 071801.	7.8	140
8	Characteristics of the Diffuse Astrophysical Electron and Tau Neutrino Flux with Six Years of IceCube High Energy Cascade Data. <i>Physical Review Letters</i> , 2020, 125, 121104.	7.8	137
9	Constraints on Ultrahigh-Energy Cosmic-Ray Sources from a Search for Neutrinos above 10 PeV with IceCube. <i>Physical Review Letters</i> , 2016, 117, 241101.	7.8	111
10	Search for annihilating dark matter in the Sun with 3 years of IceCube data. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	111
11	Characteristics of Four Upward-Pointing Cosmic-Ray-like Events Observed with ANITA. <i>Physical Review Letters</i> , 2016, 117, 071101.	7.8	94
12	Observation of an Unusual Upward-Going Cosmic-Ray-like Event in the Third Flight of ANITA. <i>Physical Review Letters</i> , 2018, 121, 161102.	7.8	91
13	Measurement of Atmospheric Neutrino Oscillations at 6–56 GeV with IceCube DeepCore. <i>Physical Review Letters</i> , 2018, 120, 071801.	7.8	88
14	South Polar in situ radio-frequency ice attenuation. <i>Journal of Glaciology</i> , 2005, 51, 231-238.	2.2	84
15	Performance and simulation of the RICE detector. <i>Astroparticle Physics</i> , 2003, 19, 15-36.	4.3	76
16	Search for steady point-like sources in the astrophysical muon neutrino flux with 8 years of IceCube data. <i>European Physical Journal C</i> , 2019, 79, 1.	3.9	75
17	Measurement of the Atmospheric $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">e^{-1/2} \rangle$ Flux in IceCube. <i>Physical Review Letters</i> , 2013, 110, 151105.	7.8	64
18	Search for neutrinos from dark matter self-annihilations in the center of the Milky Way with 3 years of IceCube/DeepCore. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	62

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19	Search for neutrinos from decaying dark matter with IceCube. <i>European Physical Journal C</i> , 2018, 78, 831.	3.9	62
20	eV-Scale Sterile Neutrino Search Using Eight Years of Atmospheric Muon Neutrino Data from the IceCube Neutrino Observatory. <i>Physical Review Letters</i> , 2020, 125, 141801.	7.8	57
21	Search for dark matter annihilation in the Galactic Center with IceCube-79. <i>European Physical Journal C</i> , 2015, 75, 1.	3.9	52
22	Design and sensitivity of the Radio Neutrino Observatory in Greenland (RNO-G). <i>Journal of Instrumentation</i> , 2021, 16, P03025.	1.2	52
23	THE FIRST COMBINED SEARCH FOR NEUTRINO POINT-SOURCES IN THE SOUTHERN HEMISPHERE WITH THE ANTARES AND ICECUBE NEUTRINO TELESCOPES. <i>Astrophysical Journal</i> , 2016, 823, 65.	4.5	49
24	Search for non-relativistic magnetic monopoles with IceCube. <i>European Physical Journal C</i> , 2014, 74, 1.	3.9	39
25	Development of a general analysis and unfolding scheme and its application to measure the energy spectrum of atmospheric neutrinos with IceCube. <i>European Physical Journal C</i> , 2015, 75, 116.	3.9	38
26	All-flavour search for neutrinos from dark matter annihilations in the Milky Way with IceCube/DeepCore. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	37
27	In situ index-of-refraction measurements of the South Polar firm with the RICE detector. <i>Journal of Glaciology</i> , 2004, 50, 522-532.	2.2	34
28	Design and Performance of the ARIANNA HRA-3 Neutrino Detector Systems. <i>IEEE Transactions on Nuclear Science</i> , 2015, 62, 2202-2215.	2.0	29
29	Searches for relativistic magnetic monopoles in IceCube. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	29
30	Constraints on the diffuse flux of ultrahigh energy neutrinos from four years of Askaryan Radio Array data in two stations. <i>Physical Review D</i> , 2020, 102, .	4.7	29
31	NuRadioMC: simulating the radio emission of neutrinos from interaction to detector. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	29
32	Multipole analysis of IceCube data to search for dark matter accumulated in the Galactic halo. <i>European Physical Journal C</i> , 2015, 75, 1.	3.9	28
33	Search for relativistic magnetic monopoles with the AMANDA-II neutrino telescope. <i>European Physical Journal C</i> , 2010, 69, 361-378.	3.9	26
34	Measurement of the μ energy spectrum with IceCube-79. <i>European Physical Journal C</i> , 2017, 77, 692.	3.9	24
35	Constraints on Minute-Scale Transient Astrophysical Neutrino Sources. <i>Physical Review Letters</i> , 2019, 122, 051102.	7.8	23
36	First search for dark matter annihilations in the Earth with the IceCube detector. <i>European Physical Journal C</i> , 2017, 77, 1.	3.9	20

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37	Observation of Radar Echoes from High-Energy Particle Cascades. <i>Physical Review Letters</i> , 2020, 124, 091101.	7.8	19
38	Radio frequency birefringence in south polar ice and implications for neutrino reconstruction. <i>Astroparticle Physics</i> , 2011, 34, 755-768.	4.3	18
39	Telescope Array Radar (TARA) observatory for Ultra-High Energy Cosmic Rays. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 767, 322-338.	1.6	16
40	The Radar Echo Telescope for Cosmic Rays: Pathfinder experiment for a next-generation neutrino observatory. <i>Physical Review D</i> , 2021, 104, .	4.7	16
41	Implications of ultrahigh energy neutrino flux constraints for Lorentz-invariance violating cosmogenic neutrinos. <i>Physical Review D</i> , 2012, 86, .	4.7	15
42	Modeling ice birefringence and oblique radio wave propagation for neutrino detection at the South Pole. <i>Annals of Glaciology</i> , 2020, 61, 84-91.	1.4	15
43	Reconstructing the neutrino energy for in-ice radio detectors. <i>European Physical Journal C</i> , 2022, 82, 1.	3.9	13
44	Development of an analysis to probe the neutrino mass ordering with atmospheric neutrinos using three years of IceCube DeepCore data. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	12
45	Search for Multi-flare Neutrino Emissions in 10 yr of IceCube Data from a Catalog of Sources. <i>Astrophysical Journal Letters</i> , 2021, 920, L45.	8.3	12
46	Search for Relativistic Magnetic Monopoles with Eight Years of IceCube Data. <i>Physical Review Letters</i> , 2022, 128, 051101.	7.8	12
47	SEARCHES FOR PERIODIC NEUTRINO EMISSION FROM BINARY SYSTEMS WITH 22 AND 40 STRINGS OF ICECUBE. <i>Astrophysical Journal</i> , 2012, 748, 118.	4.5	11
48	Antarctic radio frequency albedo and implications for cosmic ray reconstruction. <i>Radio Science</i> , 2015, 50, 1-17.	1.6	11
49	Antarctic Surface Reflectivity Measurements from the ANITA-3 and HiCal-1 Experiments. <i>Journal of Astronomical Instrumentation</i> , 2017, 06, 1740002.	1.5	11
50	First upper limits on the radar cross section of cosmic-ray induced extensive air showers. <i>Astroparticle Physics</i> , 2017, 87, 1-17.	4.3	9
51	SIMULATION OF A HYBRID OPTICAL/RADIO/ACOUSTIC EXTENSION TO ICECUBE FOR EHE NEUTRINO DETECTION. <i>International Journal of Modern Physics A</i> , 2006, 21, 259-264.	1.5	8
52	Radio-wave detection of ultra-high-energy neutrinos and cosmic rays. <i>Progress of Theoretical and Experimental Physics</i> , 2017, 2017, .	6.6	8
53	Development of SiPM-Based X-Ray Counting Scanner for Human Inspection. <i>IEEE Transactions on Nuclear Science</i> , 2018, 65, 2013-2020.	2.0	8
54	DHCAL with minimal absorber: measurements with positrons. <i>Journal of Instrumentation</i> , 2016, 11, P05008-P05008.	1.2	7

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55	Particle-level model for radar based detection of high-energy neutrino cascades. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 922, 161-170.	1.6	7
56	Modeling in-ice radio propagation with parabolic equation methods. Physical Review D, 2021, 103, .	4.7	7
57	Radio frequency ice dielectric permittivity measurements using CReSIS data. Radio Science, 2016, 51, 194-212.	1.6	6
58	Velocity independent constraints on spin-dependent DM-nucleon interactions from IceCube and PICO. European Physical Journal C, 2020, 80, 1.	3.9	6
59	Multilayer film shields for the protection of PMT from constant magnetic field. Review of Scientific Instruments, 2015, 86, 013903.	1.3	5
60	Suggestion of coherent radio reflections from an electron-beam induced particle cascade. Physical Review D, 2019, 100, .	4.7	3
61	<i>In situ</i> , broadband measurement of the radio frequency attenuation length at Summit Station, Greenland. Journal of Glaciology, 2022, 68, 1234-1242.	2.2	3
62	RESULTS FROM THE ANITA EXPERIMENT. Modern Physics Letters A, 2007, 22, 2237-2246.	1.2	2
63	Implementation of a custom time-domain firmware trigger for RADAR-based cosmic ray detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 890, 126-132.	1.6	2
64	NEUTRINO ASTRONOMY AND COSMIC RAYS AT THE SOUTH POLE: LATEST RESULTS FROM AMANDA AND PERSPECTIVES FOR ICECUBE. International Journal of Modern Physics A, 2005, 20, 6919-6923.	1.5	1
65	TUNKA-133: A new array for the study of ultra-high energy cosmic rays. Bulletin of the Russian Academy of Sciences: Physics, 2011, 75, 367.	0.6	1
66	Transitions within bottomonium. Surveys in High Energy Physics, 1996, 9, 89-121.	0.6	0
67	Neutrinos. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 14201-14202.	7.1	0
68	INTRODUCTION TO THE SALSA, A SALTDOME SHOWER ARRAY AS A GZK NEUTRINO OBSERVATORY. International Journal of Modern Physics A, 2006, 21, 252-253.	1.5	0
69	PRELIMINARY RESULT FROM ANITA EXPERIMENT. Modern Physics Letters A, 2008, 23, 1419-1430.	1.2	0
70	SIMULATION OF A HYBRID OPTICAL/RADIO/ACOUSTIC EXTENSION TO ICECUBE FOR EHE NEUTRINO DETECTION. , 2006, , .		0
71	IceCube: A Multipurpose Neutrino Telescope. Journal of the Physical Society of Japan, 2008, 77, 71-75.	1.6	0