

# James Beatty

## List of Publications by Citations

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333  
papers

41,360  
citations

77  
h-index

200  
g-index

346  
ext. papers

48,121  
ext. citations

5  
avg, IF

8.23  
L-index

#	Paper	IF	Citations
333	Review of Particle Physics. <i>Chinese Physics C</i> , <b>2014</b> , 38, 090001	2.2	5549
332	Review of Particle Physics*. <i>Physical Review D</i> , <b>2012</b> , 86,	4.9	4786
331	Review of Particle Physics*. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	4401
330	Review of Particle Physics. <i>Chinese Physics C</i> , <b>2016</b> , 40, 100001	2.2	3442
329	Multi-messenger Observations of a Binary Neutron Star Merger. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 848, L12	7.9	1935
328	Review of Particle Physics. <i>Progress of Theoretical and Experimental Physics</i> , <b>2020</b> , 2020,	5.4	1112
327	Evidence for high-energy extraterrestrial neutrinos at the IceCube detector. <i>Science</i> , <b>2013</b> , 342, 1242856	33.3	814
326	Observation of high-energy astrophysical neutrinos in three years of IceCube data. <i>Physical Review Letters</i> , <b>2014</b> , 113, 101101	7.4	683
325	Correlation of the highest-energy cosmic rays with nearby extragalactic objects. <i>Science</i> , <b>2007</b> , 318, 938-933	33.3	558
324	Properties and performance of the prototype instrument for the Pierre Auger Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2004</b> , 523, 50-95	1.2	516
323	First observation of PeV-energy neutrinos with IceCube. <i>Physical Review Letters</i> , <b>2013</b> , 111, 021103	7.4	470
322	Observation of the suppression of the flux of cosmic rays above $4 \times 10^{19}$ eV. <i>Physical Review Letters</i> , <b>2008</b> , 101, 061101	7.4	443
321	Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A. <i>Science</i> , <b>2018</b> , 361,	33.3	407
320	Measurement of the depth of maximum of extensive air showers above $10^{18}$ eV. <i>Physical Review Letters</i> , <b>2010</b> , 104, 091101	7.4	387
319	Measurements of the Cosmic-Ray Positron Fraction from 1 to 50 GeV. <i>Astrophysical Journal</i> , <b>1997</b> , 482, L191-L194	4.7	385
318	Neutrino emission from the direction of the blazar TXS 0506+056 prior to the IceCube-170922A alert. <i>Science</i> , <b>2018</b> , 361, 147-151	33.3	364
317	Measurement of the energy spectrum of cosmic rays above 10 <sup>18</sup> eV using the Pierre Auger Observatory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2010</b> , 685, 239-246	4.2	328

3 <sup>16</sup>	The Pierre Auger Cosmic Ray Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2015</b> , 798, 172-213	1.2	293
3 <sup>15</sup>	A COMBINED MAXIMUM-LIKELIHOOD ANALYSIS OF THE HIGH-ENERGY ASTROPHYSICAL NEUTRINO FLUX MEASURED WITH ICECUBE. <i>Astrophysical Journal</i> , <b>2015</b> , 809, 98	4.7	280
3 <sup>14</sup>	DISCREPANT HARDENING OBSERVED IN COSMIC-RAY ELEMENTAL SPECTRA. <i>Astrophysical Journal Letters</i> , <b>2010</b> , 714, L89-L93	7.9	271
3 <sup>13</sup>	Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei. <i>Astroparticle Physics</i> , <b>2008</b> , 29, 188-204	2.4	262
3 <sup>12</sup>	COSMIC-RAY PROTON AND HELIUM SPECTRA FROM THE FIRST CREAM FLIGHT. <i>Astrophysical Journal</i> , <b>2011</b> , 728, 122	4.7	256
3 <sup>11</sup>	OBSERVATION AND CHARACTERIZATION OF A COSMIC MUON NEUTRINO FLUX FROM THE NORTHERN HEMISPHERE USING SIX YEARS OF ICECUBE DATA. <i>Astrophysical Journal</i> , <b>2016</b> , 833, 3	4.7	249
3 <sup>10</sup>	An absence of neutrinos associated with cosmic-ray acceleration in $\gamma$ bursts. <i>Nature</i> , <b>2012</b> , 484, 351-4	50.4	230
3 <sup>09</sup>	Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter. <i>Astroparticle Physics</i> , <b>2010</b> , 34, 314-326	2.4	229
3 <sup>08</sup>	Evidence for Astrophysical Muon Neutrinos from the Northern Sky with IceCube. <i>Physical Review Letters</i> , <b>2015</b> , 115, 081102	7.4	204
3 <sup>07</sup>	The IceCube Neutrino Observatory: instrumentation and online systems. <i>Journal of Instrumentation</i> , <b>2017</b> , 12, P03012-P03012	1	203
3 <sup>06</sup>	The fluorescence detector of the Pierre Auger Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 620, 227-251	1.2	202
3 <sup>05</sup>	Search for dark matter annihilations in the sun with the 79-string IceCube detector. <i>Physical Review Letters</i> , <b>2013</b> , 110, 131302	7.4	197
3 <sup>04</sup>	Cosmic-Ray Electrons and Positrons from 1 to 100 GeV: Measurements with HEAT and Their Interpretation. <i>Astrophysical Journal</i> , <b>2001</b> , 559, 296-303	4.7	196
3 <sup>03</sup>	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. I. Measurements at energies above 1017.8 eV. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	195
3 <sup>02</sup>	Atmospheric and astrophysical neutrinos above 1 TeV interacting in IceCube. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	179
3 <sup>01</sup>	Measurement of the proton-air cross section at $\sqrt{s}=57$ TeV with the Pierre Auger Observatory. <i>Physical Review Letters</i> , <b>2012</b> , 109, 062002	7.4	179
3 <sup>00</sup>	Calibration and characterization of the IceCube photomultiplier tube. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 618, 139-152	1.2	179
2 <sup>99</sup>	Observation of a large-scale anisotropy in the arrival directions of cosmic rays above 8 $\times$ 10 eV. <i>Science</i> , <b>2017</b> , 357, 1266-1270	33.3	172

298	New measurement of the cosmic-ray positron fraction from 5 to 15 GeV. <i>Physical Review Letters</i> , <b>2004</b> , 93, 241102	7.4	170
297	The design and performance of IceCube DeepCore. <i>Astroparticle Physics</i> , <b>2012</b> , 35, 615-624	2.4	158
296	Depth of maximum of air-shower profiles at the Pierre Auger Observatory. II. Composition implications. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	157
295	Design and initial performance of the Askaryan Radio Array prototype EeV neutrino detector at the South Pole. <i>Astroparticle Physics</i> , <b>2012</b> , 35, 457-477	2.4	154
294	Measurement of the atmospheric neutrino energy spectrum from 100 GeV to 400 TeV with IceCube. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	143
293	Upper limit on the cosmic-ray photon flux above 10 <sup>19</sup> eV using the surface detector of the Pierre Auger Observatory. <i>Astroparticle Physics</i> , <b>2008</b> , 29, 243-256	2.4	141
292	All-sky Search for Time-integrated Neutrino Emission from Astrophysical Sources with 7 yr of IceCube Data. <i>Astrophysical Journal</i> , <b>2017</b> , 835, 151	4.7	139
291	ENERGY SPECTRA OF COSMIC-RAY NUCLEI AT HIGH ENERGIES. <i>Astrophysical Journal</i> , <b>2009</b> , 707, 593-603	4.7	137
290	Observational constraints on the ultrahigh energy cosmic neutrino flux from the second flight of the ANITA experiment. <i>Physical Review D</i> , <b>2010</b> , 82,	4.9	135
289	Flavor Ratio of Astrophysical Neutrinos above 35 TeV in IceCube. <i>Physical Review Letters</i> , <b>2015</b> , 114, 171102	7.4	130
288	SEARCHES FOR EXTENDED AND POINT-LIKE NEUTRINO SOURCES WITH FOUR YEARS OF ICECUBE DATA. <i>Astrophysical Journal</i> , <b>2014</b> , 796, 109	4.7	122
287	Searches for Sterile Neutrinos with the IceCube Detector. <i>Physical Review Letters</i> , <b>2016</b> , 117, 071801	7.4	122
286	Trigger and aperture of the surface detector array of the Pierre Auger Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2010</b> , 613, 29-39	1.2	121
285	Energy reconstruction methods in the IceCube neutrino telescope. <i>Journal of Instrumentation</i> , <b>2014</b> , 9, P03009-P03009	1	118
284	Upper limit on the diffuse flux of ultrahigh energy tau neutrinos from the Pierre Auger Observatory. <i>Physical Review Letters</i> , <b>2008</b> , 100, 211101	7.4	117
283	Measurements of cosmic-ray secondary nuclei at high energies with the first flight of the CREAM balloon-borne experiment. <i>Astroparticle Physics</i> , <b>2008</b> , 30, 133-141	2.4	116
282	SEARCHES FOR ANISOTROPIES IN THE ARRIVAL DIRECTIONS OF THE HIGHEST ENERGY COSMIC RAYS DETECTED BY THE PIERRE AUGER OBSERVATORY. <i>Astrophysical Journal</i> , <b>2015</b> , 804, 15	4.7	113
281	The Antarctic Impulsive Transient Antenna ultra-high energy neutrino detector: Design, performance, and sensitivity for the 2006-2007 balloon flight. <i>Astroparticle Physics</i> , <b>2009</b> , 32, 10-41	2.4	110

280	Improved limit to the diffuse flux of ultrahigh energy neutrinos from the Pierre Auger Observatory. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	108
279	Testing Hadronic Interactions at Ultrahigh Energies with Air Showers Measured by the Pierre Auger Observatory. <i>Physical Review Letters</i> , <b>2016</b> , 117, 192001	7.4	107
278	TIME-INTEGRATED SEARCHES FOR POINT-LIKE SOURCES OF NEUTRINOS WITH THE 40-STRING IceCube DETECTOR. <i>Astrophysical Journal</i> , <b>2011</b> , 732, 18	4.7	106
277	Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. <i>Astrophysical Journal Letters</i> , <b>2017</b> , 850, L35	7.9	104
276	MEASUREMENT OF THE ANISOTROPY OF COSMIC-RAY ARRIVAL DIRECTIONS WITH ICECUBE. <i>Astrophysical Journal Letters</i> , <b>2010</b> , 718, L194-L198	7.9	104
275	IceTop: The surface component of IceCube. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2013</b> , 700, 188-220	1.2	103
274	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> , <b>2018</b> , 853, L29	7.9	102
273	Measurement of South Pole ice transparency with the IceCube LED calibration system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2013</b> , 711, 73-89	1.2	101
272	OBSERVATION OF ANISOTROPY IN THE GALACTIC COSMIC-RAY ARRIVAL DIRECTIONS AT 400 TeV WITH ICECUBE. <i>Astrophysical Journal</i> , <b>2012</b> , 746, 33	4.7	101
271	Muons in air showers at the Pierre Auger Observatory: Mean number in highly inclined events. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	100
270	Measurement of the cosmic ray energy spectrum with IceTop-73. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	100
269	The Energy Spectra and Relative Abundances of Electrons and Positrons in the Galactic Cosmic Radiation. <i>Astrophysical Journal</i> , <b>1998</b> , 498, 779-789	4.7	100
268	Upper limit on the cosmic-ray photon fraction at EeV energies from the Pierre Auger Observatory. <i>Astroparticle Physics</i> , <b>2009</b> , 31, 399-406	2.4	99
267	Combined fit of spectrum and composition data as measured by the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2017</b> , 2017, 038-038	6.4	95
266	SEARCH FOR PROMPT NEUTRINO EMISSION FROM GAMMA-RAY BURSTS WITH ICECUBE. <i>Astrophysical Journal Letters</i> , <b>2015</b> , 805, L5	7.9	92
265	Observation of ultrahigh-energy cosmic rays with the ANITA balloon-borne radio interferometer. <i>Physical Review Letters</i> , <b>2010</b> , 105, 151101	7.4	90
264	Constraints on Ultrahigh-Energy Cosmic-Ray Sources from a Search for Neutrinos above 10 <sup>16</sup> PeV with IceCube. <i>Physical Review Letters</i> , <b>2016</b> , 117, 241101	7.4	87
263	Differential limit on the extremely-high-energy cosmic neutrino flux in the presence of astrophysical background from nine years of IceCube data. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	85

262	IceCube sensitivity for low-energy neutrinos from nearby supernovae (Corrigendum). <i>Astronomy and Astrophysics</i> , <b>2014</b> , 563, C1	5.1	84
261	Cosmic-ray positrons: are there primary sources?. <i>Astroparticle Physics</i> , <b>1999</b> , 11, 429-435	2.4	81
260	High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	80
259	Time-Integrated Neutrino Source Searches with 10 Years of IceCube Data. <i>Physical Review Letters</i> , <b>2020</b> , 124, 051103	7.4	78
258	Extending the Search for Muon Neutrinos Coincident with Gamma-Ray Bursts in IceCube Data. <i>Astrophysical Journal</i> , <b>2017</b> , 843, 112	4.7	77
257	An upper limit to the photon fraction in cosmic rays above 10 <sup>19</sup> eV from the Pierre Auger Observatory. <i>Astroparticle Physics</i> , <b>2007</b> , 27, 155-168	2.4	77
256	The IceCube realtime alert system. <i>Astroparticle Physics</i> , <b>2017</b> , 92, 30-41	2.4	76
255	Search for annihilating dark matter in the Sun with 3 years of IceCube data. <i>European Physical Journal C</i> , <b>2017</b> , 77, 1	4.2	76
254	Measurements at 0 degrees of negatively charged particles and antinuclei produced in collisions of 14.6A GeV/c Si on Al, Cu, and Au targets. <i>Physical Review Letters</i> , <b>1992</b> , 69, 2345-2348	7.4	76
253	AN ALL-SKY SEARCH FOR THREE FLAVORS OF NEUTRINOS FROM GAMMA-RAY BURSTS WITH THE ICECUBE NEUTRINO OBSERVATORY. <i>Astrophysical Journal</i> , <b>2016</b> , 824, 115	4.7	75
252	Characteristics of Four Upward-Pointing Cosmic-Ray-like Events Observed with ANITA. <i>Physical Review Letters</i> , <b>2016</b> , 117, 071101	7.4	74
251	OBSERVATION OF COSMIC-RAY ANISOTROPY WITH THE ICETOP AIR SHOWER ARRAY. <i>Astrophysical Journal</i> , <b>2013</b> , 765, 55	4.7	74
250	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> , <b>2010</b> , 33, 108-129	2.4	73
249	Limits on neutrino emission from gamma-ray bursts with the 40 string IceCube detector. <i>Physical Review Letters</i> , <b>2011</b> , 106, 141101	7.4	72
248	Antennas for the detection of radio emission pulses from cosmic-ray induced air showers at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , <b>2012</b> , 7, P10011-P10011	1	72
247	SEARCH FOR MUON NEUTRINOS FROM GAMMA-RAY BURSTS WITH THE IceCube NEUTRINO TELESCOPE. <i>Astrophysical Journal</i> , <b>2010</b> , 710, 346-359	4.7	69
246	SEARCH FOR TIME-INDEPENDENT NEUTRINO EMISSION FROM ASTROPHYSICAL SOURCES WITH 3 yr OF IceCube DATA. <i>Astrophysical Journal</i> , <b>2013</b> , 779, 132	4.7	66
245	New limit on the low-energy antiproton/proton ratio in the Galactic cosmic radiation. <i>Physical Review Letters</i> , <b>1988</b> , 61, 145-148	7.4	66

244	Measurement of the Radiation Energy in the Radio Signal of Extensive Air Showers as a Universal Estimator of Cosmic-Ray Energy. <i>Physical Review Letters</i> , <b>2016</b> , 116, 241101	7.4	65
243	Search for a diffuse flux of astrophysical muon neutrinos with the IceCube 59-string configuration. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	65
242	Search for a Lorentz-violating sidereal signal with atmospheric neutrinos in IceCube. <i>Physical Review D</i> , <b>2010</b> , 82,	4.9	65
241	Performance of two Askaryan Radio Array stations and first results in the search for ultrahigh energy neutrinos. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	64
240	Search for first harmonic modulation in the right ascension distribution of cosmic rays detected at the Pierre Auger Observatory. <i>Astroparticle Physics</i> , <b>2011</b> , 34, 627-639	2.4	64
239	Constraints on the extremely-high energy cosmic neutrino flux with the IceCube 2008-2009 data. <i>Physical Review D</i> , <b>2011</b> , 83,	4.9	64
238	Observation of an Unusual Upward-Going Cosmic-Ray-like Event in the Third Flight of ANITA. <i>Physical Review Letters</i> , <b>2018</b> , 121, 161102	7.4	64
237	Measurement of the multi-TeV neutrino interaction cross-section with IceCube using Earth absorption. <i>Nature</i> , <b>2017</b> , 551, 596-600	50.4	63
236	Constraints on Galactic Neutrino Emission with Seven Years of IceCube Data. <i>Astrophysical Journal</i> , <b>2017</b> , 849, 67	4.7	63
235	Determining neutrino oscillation parameters from atmospheric muon neutrino disappearance with three years of IceCube DeepCore data. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	63
234	Probing the radio emission from air showers with polarization measurements. <i>Physical Review D</i> , <b>2014</b> , 89,	4.9	63
233	Energy estimation of cosmic rays with the Engineering Radio Array of the Pierre Auger Observatory. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	62
232	Cosmic ray positrons at high energies: A new measurement. <i>Physical Review Letters</i> , <b>1995</b> , 75, 390-393	7.4	60
231	Evidence for a mixed mass composition at the "knee" in the cosmic-ray spectrum. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , <b>2016</b> , 762, 288-295	4.2	59
230	Measurement of the atmospheric $\bar{\nu}_\mu$ flux in IceCube. <i>Physical Review Letters</i> , <b>2013</b> , 110, 151105	7.4	58
229	Measurement of the cosmic-ray antiproton-to-proton abundance ratio between 4 and 50 GeV. <i>Physical Review Letters</i> , <b>2001</b> , 87, 271101	7.4	58
228	SEARCHES FOR LARGE-SCALE ANISOTROPY IN THE ARRIVAL DIRECTIONS OF COSMIC RAYS DETECTED ABOVE ENERGY OF 1019eV AT THE PIERRE AUGER OBSERVATORY AND THE TELESCOPE ARRAY. <i>Astrophysical Journal</i> , <b>2014</b> , 794, 172	4.7	56
227	Search for sterile neutrino mixing using three years of IceCube DeepCore data. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	55



226	Description of atmospheric conditions at the Pierre Auger Observatory using the Global Data Assimilation System (GDAS). <i>Astroparticle Physics</i> , <b>2012</b> , 35, 591-607	2.4	55
225	IceCube-Gen2: the window to the extreme Universe. <i>Journal of Physics G: Nuclear and Particle Physics</i> , <b>2021</b> , 48, 060501	2.9	55
224	Measurement of Atmospheric Neutrino Oscillations at 6-56 TeV with IceCube DeepCore. <i>Physical Review Letters</i> , <b>2018</b> , 120, 071801	7.4	54
223	Inferences on mass composition and tests of hadronic interactions from 0.3 to 100 EeV using the water-Cherenkov detectors of the Pierre Auger Observatory. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	53
222	CONSTRAINTS ON THE ORIGIN OF COSMIC RAYS ABOVE 10 <sup>18</sup> eV FROM LARGE-SCALE ANISOTROPY SEARCHES IN DATA OF THE PIERRE AUGER OBSERVATORY. <i>Astrophysical Journal Letters</i> , <b>2013</b> , 762, L13	7.9	53
221	The energy spectrum of atmospheric neutrinos between 2 and 200 TeV with the AMANDA-II detector. <i>Astroparticle Physics</i> , <b>2010</b> , 34, 48-58	2.4	53
220	Search for steady point-like sources in the astrophysical muon neutrino flux with 8 years of IceCube data. <i>European Physical Journal C</i> , <b>2019</b> , 79, 1	4.2	52
219	ANISOTROPY IN COSMIC-RAY ARRIVAL DIRECTIONS IN THE SOUTHERN HEMISPHERE BASED ON SIX YEARS OF DATA FROM THE ICECUBE DETECTOR. <i>Astrophysical Journal</i> , <b>2016</b> , 826, 220	4.7	51
218	Characteristics of the Diffuse Astrophysical Electron and Tau Neutrino Flux with Six Years of IceCube High Energy Cascade Data. <i>Physical Review Letters</i> , <b>2020</b> , 125, 121104	7.4	49
217	Cosmic-ray energetics and mass (CREAM) balloon project. <i>Advances in Space Research</i> , <b>2004</b> , 33, 1777-1785	4.1	49
216	SEARCHES FOR TIME-DEPENDENT NEUTRINO SOURCES WITH ICECUBE DATA FROM 2008 TO 2012. <i>Astrophysical Journal</i> , <b>2015</b> , 807, 46	4.7	47
215	Energy and flux measurements of ultra-high energy cosmic rays observed during the first ANITA flight. <i>Astroparticle Physics</i> , <b>2016</b> , 77, 32-43	2.4	47
214	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> , <b>2017</b> , 77, 1	4.2	46
213	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> , <b>2012</b> , 755, L4	7.9	46
212	Improved limits on dark matter annihilation in the Sun with the 79-string IceCube detector and implications for supersymmetry. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2016</b> , 2016, 022-022	6.4	46
211	Muons in air showers at the Pierre Auger Observatory: Measurement of atmospheric production depth. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	44
210	Advanced functionality for radio analysis in the Offline software framework of the Pierre Auger Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2011</b> , 635, 92-102	1.2	44
209	Anisotropy studies around the galactic centre at EeV energies with the Auger Observatory. <i>Astroparticle Physics</i> , <b>2007</b> , 27, 244-253	2.4	44



208	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> , <b>2015</b> , 802, 111	4.7	43
207	IceCube search for dark matter annihilation in nearby galaxies and galaxy clusters. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	42
206	The cosmic-ray He-3/He-4 ratio from 100 to 1600 MeV/amu. <i>Astrophysical Journal</i> , <b>1993</b> , 413, 268	4.7	42
205	Constraints on the diffuse high-energy neutrino flux from the third flight of ANITA. <i>Physical Review D</i> , <b>2018</b> , 98,	4.9	42
204	Measurement of atmospheric neutrino oscillations with IceCube. <i>Physical Review Letters</i> , <b>2013</b> , 111, 081801	4.0	41
203	FIRST NEUTRINO POINT-SOURCE RESULTS FROM THE 22 STRING ICECUBE DETECTOR. <i>Astrophysical Journal</i> , <b>2009</b> , 701, L47-L51	4.7	41
202	Characterization of the atmospheric muon flux in IceCube. <i>Astroparticle Physics</i> , <b>2016</b> , 78, 1-27	2.4	40
201	Probing the origin of cosmic rays with extremely high energy neutrinos using the IceCube Observatory. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	40
200	Calibration of the surface array of the Pierre Auger Observatory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2006</b> , 568, 839-846	1.2	40
199	Limits on the antiproton/proton ratio in the cosmic radiation from 100 MeV to 1580 MeV. <i>Astrophysical Journal</i> , <b>1990</b> , 349, 78	4.7	40
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