

R Wayne Springer

List of Publications by Year in descending order

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108
papers

4,775
citations

109137

35
h-index

95083

68
g-index

110
all docs

110
docs citations

110
times ranked

4155
citing authors

#	ARTICLE	IF	CITATIONS
1	First Observation of the Greisen-Zatsepin-Kuzmin Suppression. <i>Physical Review Letters</i> , 2008, 100, 101101.	2.9	568
2	Extended gamma-ray sources around pulsars constrain the origin of the positron flux at Earth. <i>Science</i> , 2017, 358, 911-914.	6.0	303
3	INDICATIONS OF INTERMEDIATE-SCALE ANISOTROPY OF COSMIC RAYS WITH ENERGY GREATER THAN 57 EeV IN THE NORTHERN SKY MEASURED WITH THE SURFACE DETECTOR OF THE TELESCOPE ARRAY EXPERIMENT. <i>Astrophysical Journal Letters</i> , 2014, 790, L21.	3.0	248
4	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.	2.9	233
5	Indications of Proton-Dominated Cosmic-Ray Composition above 1.6 EeV. <i>Physical Review Letters</i> , 2010, 104, 161101.	2.9	221
6	The 2HWC HAWC Observatory Gamma-Ray Catalog. <i>Astrophysical Journal</i> , 2017, 843, 40.	1.6	200
7	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.	1.6	170
8	Observation of the Crab Nebula with the HAWC Gamma-Ray Observatory. <i>Astrophysical Journal</i> , 2017, 843, 39.	1.6	159
9	A measurement of global event shape distributions in the hadronic decays of the Z ⁰ . <i>Zeitschrift für Physik C-Particles and Fields</i> , 1990, 47, 505-521.	1.5	149
10	Multiple Galactic Sources with Emission Above 56 TeV Detected by HAWC. <i>Physical Review Letters</i> , 2020, 124, 021102.	2.9	143
11	3HWC: The Third HAWC Catalog of Very-high-energy Gamma-Ray Sources. <i>Astrophysical Journal</i> , 2020, 905, 76.	1.6	99
12	Measurement of the Crab Nebula Spectrum Past 100 TeV with HAWC. <i>Astrophysical Journal</i> , 2019, 881, 134.	1.6	98
13	A study of charged particle multiplicities in hadronic decays of the Z ⁰ . <i>Zeitschrift für Physik C-Particles and Fields</i> , 1992, 53, 539-554.	1.5	87
14	Study of Small-Scale Anisotropy of Ultra-High-Energy Cosmic Rays Observed in Stereo by the High Resolution Fly's Eye Detector. <i>Astrophysical Journal</i> , 2004, 610, L73-L76.	1.6	79
15	QCD studies with e ⁺ e ⁻ annihilation data at 130 and 136 GeV. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1996, 72, 191-206.	1.5	78
16	Very-high-energy particle acceleration powered by the jets of the microquasar SS 433. <i>Nature</i> , 2018, 562, 82-85.	13.7	75
17	A study of differences between quark and gluon jets using vertex tagging of quark jets. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1993, 58, 387-403.	1.5	74
18	Search for Cross-Correlations of Ultrahigh Energy Cosmic Rays with BL Lacertae Objects. <i>Astrophysical Journal</i> , 2006, 636, 680-684.	1.6	73

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19	OBSERVATION OF SMALL-SCALE ANISOTROPY IN THE ARRIVAL DIRECTION DISTRIBUTION OF TeV COSMIC RAYS WITH HAWC. <i>Astrophysical Journal</i> , 2014, 796, 108.	1.6	71
20	Dark Matter Limits from Dwarf Spheroidal Galaxies with the HAWC Gamma-Ray Observatory. <i>Astrophysical Journal</i> , 2018, 853, 154.	1.6	69
21	A study of the recombination scheme dependence of jet production rates and of $\sigma_s(M_{Z^0})$ in hadronic Z^0 decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1991, 49, 375-384.	1.5	67
22	A determination of $\sigma_s(M_{Z^0})$ at LEP using resummed QCD calculations. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1993, 59, 1-19.	1.5	62
23	HAWC observations of the acceleration of very-high-energy cosmic rays in the Cygnus Cocoon. <i>Nature Astronomy</i> , 2021, 5, 465-471.	4.2	62
24	A global determination of $\sigma_s(M_{Z^0})$ at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1992, 55, 1-24.	1.5	61
25	Gamma Ray Showers Observed at Ground Level in Coincidence With Downward Lightning Leaders. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 6864-6879.	1.2	58
26	Measurements of $B^0 - \bar{B}^0$ mixing, $\Gamma(\text{Z}^0 \rightarrow \bar{b}b) / \Gamma(\text{Z}^0 \rightarrow \text{hadrons})$ and semileptonic branching ratios for b -flavoured hadrons in hadronic Z^0 decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1993, 60, 199-216.	1.5	57
27	SEARCH FOR ANISOTROPY OF ULTRAHIGH ENERGY COSMIC RAYS WITH THE TELESCOPE ARRAY EXPERIMENT. <i>Astrophysical Journal</i> , 2012, 757, 26.	1.6	52
28	HAWC J2227+610 and Its Association with G106.3+2.7, a New Potential Galactic PeVatron. <i>Astrophysical Journal Letters</i> , 2020, 896, L29.	3.0	48
29	CORRELATIONS OF THE ARRIVAL DIRECTIONS OF ULTRA-HIGH ENERGY COSMIC RAYS WITH EXTRAGALACTIC OBJECTS AS OBSERVED BY THE TELESCOPE ARRAY EXPERIMENT. <i>Astrophysical Journal</i> , 2013, 777, 88.	1.6	43
30	ANALYSIS OF LARGE-SCALE ANISOTROPY OF ULTRA-HIGH ENERGY COSMIC RAYS IN HiRes DATA. <i>Astrophysical Journal Letters</i> , 2010, 713, L64-L68.	3.0	42
31	Constraints on Lorentz Invariance Violation from HAWC Observations of Gamma Rays above 100 TeV. <i>Physical Review Letters</i> , 2020, 124, 131101.	2.9	40
32	Daily Monitoring of TeV Gamma-Ray Emission from Mrk 421, Mrk 501, and the Crab Nebula with HAWC. <i>Astrophysical Journal</i> , 2017, 841, 100.	1.6	39
33	Inclusive neutral vector meson production in hadronic Z^0 decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1992, 56, 521-535.	1.5	38
34	A study of charm hadron production in $Z^0 \rightarrow c\bar{c}$ and $Z^0 \rightarrow \bar{b}b$ decays at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1996, 72, 1-16.	1.5	38
35	Measurement of $\Gamma(\text{Z}^0 \rightarrow \bar{b}b) / \Gamma(\text{Z}^0 \rightarrow \text{hadrons})$ using leptons. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1993, 58, 523-539.	1.5	37
36	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.	1.6	35

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37	SEARCH FOR TeV GAMMA-RAY EMISSION FROM POINT-LIKE SOURCES IN THE INNER GALACTIC PLANE WITH A PARTIAL CONFIGURATION OF THE HAWC OBSERVATORY. <i>Astrophysical Journal</i> , 2016, 817, 3.	1.6	33
38	An Upper Limit on the Electron-Neutrino Flux from the HiRes Detector. <i>Astrophysical Journal</i> , 2008, 684, 790-793.	1.6	32
39	Evidence that Ultra-high-energy Gamma Rays Are a Universal Feature near Powerful Pulsars. <i>Astrophysical Journal Letters</i> , 2021, 911, L27.	3.0	32
40	SEARCH FOR GAMMA-RAYS FROM THE UNUSUALLY BRIGHT GRB 130427A WITH THE HAWC GAMMA-RAY OBSERVATORY. <i>Astrophysical Journal</i> , 2015, 800, 78.	1.6	30
41	Search for Very High-energy Gamma Rays from the Northern Fermi Bubble Region with HAWC. <i>Astrophysical Journal</i> , 2017, 842, 85.	1.6	28
42	Searches for neutral Higgs bosons in e^+e^- collisions at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1991, 49, 1-15.	1.5	26
43	Observation of Anisotropy of TeV Cosmic Rays with Two Years of HAWC. <i>Astrophysical Journal</i> , 2018, 865, 57.	1.6	25
44	The production of neutral kaons in Z0 decays and their Bose-Einstein correlations. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1995, 67, 389-401.	1.5	24
45	Multiplicity dependence of Bose-Einstein correlations in hadronic Z0 decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1996, 72, 389-398.	1.5	24
46	A study of angular correlations in 4-jet final states of hadronic Z0 decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1991, 49, 49-57.	1.5	22
47	Σ^+ , Σ^0 and Σ^- hyperon production in hadronic Z ⁰ decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1997, 73, 587-599.	1.5	20
48	Measurement of the average hadron lifetime in Z0 decays. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1993, 60, 217-228.	1.5	19
49	A measurement of the B d0 oscillation frequency using leptons and D* \pm mesons. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1996, 72, 377-388.	1.5	19
50	The Status of the Telescope Array experiment. <i>Journal of Physics: Conference Series</i> , 2011, 293, 012035.	0.3	18
51	A direct measurement of the Z0 invisible width by single photon counting. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1991, 50, 373-384.	1.5	17
52	A measurement of electron production in hadronic Z0 decays and a determination of $\Gamma(Z^0 \rightarrow e^+e^-)$. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1993, 60, 183-194.	1.5	17
53	A measurement of the forward-backward asymmetry of $e^+e^- \rightarrow c\bar{c}$ and $e^+e^- \rightarrow b\bar{b}$ at centre of mass energies on and near the Z0 peak using D* \pm mesons. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1993, 60, 601-612.	1.5	17
54	Measurement of the τ lifetime. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1993, 59, 183-194.	1.5	17

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55	Improved measurements of the B_0 and B^+ meson lifetimes. Zeitschrift für Physik C-Particles and Fields, 1995, 67, 379-388.	1.5	17
56	The HAWC Real-time Flare Monitor for Rapid Detection of Transient Events. Astrophysical Journal, 2017, 843, 116.	1.6	16
57	Precision measurements of the neutral current from hadron and lepton production at LEP. Zeitschrift für Physik C-Particles and Fields, 1993, 58, 219-237.	1.5	15
58	Spectrum and Morphology of the Very-high-energy Source HAWC J2019+368. Astrophysical Journal, 2021, 911, 143.	1.6	14
59	Determination of the production rate of τ . European Physical Journal C, 1998, 5, 01.	1.4	14
60	A test of the flavour independence of the strong interaction for five flavours. Zeitschrift für Physik C-Particles and Fields, 1993, 60, 397-420.	1.5	13
61	The forward-backward asymmetry of $e^+e^- \rightarrow b\bar{b}$ and $e^+e^- \rightarrow c\bar{c}$ using leptons in hadronic Z^0 decays. Zeitschrift für Physik C-Particles and Fields, 1993, 60, 19-35.	1.5	13
62	A measurement of the forward-backward asymmetry of $e^+e^- \rightarrow b\bar{b}$ by applying a jet charge algorithm to lifetime tagged events. Zeitschrift für Physik C-Particles and Fields, 1995, 67, 365-378.	1.5	13
63	A Survey of Active Galaxies at TeV Photon Energies with the HAWC Gamma-Ray Observatory. Astrophysical Journal, 2021, 907, 67.	1.6	13
64	A study of charm hadron production in $\{m, Z\} \rightarrow c\bar{c}$ and $\{m, Z\} \rightarrow b\bar{b}$ decays at LEP. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 1-16.	1.5	13
65	Studies of strong and electroweak interactions using final state photon emission in hadronic Z^0 decays. Zeitschrift für Physik C-Particles and Fields, 1993, 58, 405-418.	1.5	12
66	Search for Very-high-energy Emission from Gamma-Ray Bursts Using the First 18 Months of Data from the HAWC Gamma-Ray Observatory. Astrophysical Journal, 2017, 843, 88.	1.6	12
67	A study of muon pair production and evidence for tau pair production in photon-photon collisions at LEP. Zeitschrift für Physik C-Particles and Fields, 1993, 60, 593-600.	1.5	11
68	A NORTHERN SKY SURVEY FOR POINT-LIKE SOURCES OF EeV NEUTRAL PARTICLES WITH THE TELESCOPE ARRAY EXPERIMENT. Astrophysical Journal, 2015, 804, 133.	1.6	11
69	A search for neutral Higgs bosons in the MSSM and models with two scalar field doublets. European Physical Journal C, 1998, 5, 19.	1.4	11
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73	Multimessenger Gamma-Ray and Neutrino Coincidence Alerts Using HAWC and IceCube Subthreshold Data. <i>Astrophysical Journal</i> , 2021, 906, 63.	1.6	9
74	Measurement of Ultra-High Energy Cosmic Rays by Telescope Array (TA). <i>Journal of the Physical Society of Japan</i> , 2009, 78, 108-113.	0.7	9
75	A precise measurement of the tau polarization and its forward-backward asymmetry at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1996, 72, 365-375.	1.5	8
76	A measurement of the charm and bottom forward-backward asymmetries using D mesons at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1997, 73, 379-395.	1.5	8
77	Determination of the production rate of D^0 mesons and of the ratio $V/(V+P)$ in Z^0 decays. <i>European Physical Journal C</i> , 1998, 5, 1-17.	1.4	8
78	Long-term Spectra of the Blazars Mrk 421 and Mrk 501 at TeV Energies Seen by HAWC. <i>Astrophysical Journal</i> , 2022, 929, 125.	1.6	8
79	A search for neutral Higgs bosons in the MSSM and models with two scalar field doublets. <i>European Physical Journal C</i> , 1998, 5, 19-40.	1.4	7
80	Search for a massive Di-photon resonance at $\sqrt{s} = 91 - 172$ GeV. <i>European Physical Journal C</i> , 1998, 1, 31-43.	1.4	7
81	The Telescope Array experiment: Status and Prospects. , 2010, , .		7
82	MAGIC and <i>Fermi</i> -LAT gamma-ray results on unassociated HAWC sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 356-366.	1.6	7
83	QCD coherence studies using two particle azimuthal correlations. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1993, 58, 207-217.	1.5	6
84	Determination of event shape distributions and $\hat{s} \rightarrow b$ from Z^0 events at LEP. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1995, 65, 31-45.	1.5	6
85	HAWC Study of the Ultra-high-energy Spectrum of MGRO J1908+06. <i>Astrophysical Journal</i> , 2022, 928, 116.	1.6	6
86	Multi-photon final states in e^+e^- collisions at $\sqrt{s} = 130-172$ GeV. <i>European Physical Journal C</i> , 1998, 1, 21-30.	1.4	5
87	Multi-photon final states in. <i>European Physical Journal C</i> , 1998, 1, 21.	1.4	5
88	Search for a massive Di-photon resonance at. <i>European Physical Journal C</i> , 1998, 1, 31.	1.4	5
89	Search for unstable heavy and excited leptons in e. <i>European Physical Journal C</i> , 1998, 1, 45.	1.4	5
90	HAWC and Fermi-LAT Detection of Extended Emission from the Unidentified Source 2HWC J2006+341. <i>Astrophysical Journal Letters</i> , 2020, 903, L14.	3.0	5

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91	Measurement of the average b-baryon lifetime and the product branching ratio $f(b \rightarrow \Lambda_b) \cdot BR(\Lambda_b \rightarrow \Lambda e^+ \nu_e)$. Zeitschrift für Physik C-Particles and Fields, 1995, 69, 195-214.	1.5	4
92	Search for a narrow resonance in Z0 decays into hadrons and isolated photons. Zeitschrift für Physik C-Particles and Fields, 1996, 71, 1-10.	1.5	4
93	A comparison of b and uds quark jets to gluon jets. Zeitschrift für Physik C-Particles and Fields, 1995, 69, 543-560.	1.5	3
94	Upper limit on the Λ_b mass from $\Lambda_b \rightarrow 3\pi^0$ decays. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 231-238.	1.5	3
95	Publisher's Note: Indications of Proton-Dominated Cosmic-Ray Composition above 1.6 EeV [Phys. Rev. Lett. 104 (2010)]. Physical Review Letters, 2010, 104, .	2.9	3
96	HAWC Search for High-mass Microquasars. Astrophysical Journal Letters, 2021, 912, L4.	3.0	3
97	The Telescope Array experiment: status and prospects. Journal of Physics: Conference Series, 2008, 120, 062027.	0.3	2
98	HAWC as a Ground-Based Space-Weather Observatory. Solar Physics, 2021, 296, 1.	1.0	2
99	Interplanetary Magnetic Flux Rope Observed at Ground Level by HAWC. Astrophysical Journal, 2020, 905, 73.	1.6	2
100	Constraints on the Emission of Gamma-Rays from M31 with HAWC. Astrophysical Journal, 2020, 893, 16.	1.6	1
101	Site Characteristics of Southern Utah Sites for Astronomical Observatories. , 2008, , .		0
102	MEASUREMENTS OF THE PARTIAL WIDTH $\Gamma(Z^0 \rightarrow b\bar{b})$ AT LEP. , 1993, , .		0
103	QCD studies with e^+e^- annihilation data at 130 and 136 GeV. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 191-206.	1.5	0
104	Upper limit on the Λ_b mass from $\Lambda_b \rightarrow 3\pi^0$ decays. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 231-238.	1.5	0
105	A precise measurement of the tau polarization and its forward-backward asymmetry at LEP. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 365-375.	1.5	0
106	A measurement of the B d 0 oscillation frequency using leptons and $D^{*\pm}$ mesons. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 377-388.	1.5	0
107	Multiplicity dependence of Bose-Einstein correlations in hadronic Z0 decays. Zeitschrift für Physik C-Particles and Fields, 1996, 72, 389-398.	1.5	0
108	Probing the Extragalactic Mid-infrared Background with HAWC. Astrophysical Journal, 2022, 933, 223.	1.6	0