

Spencer Klein

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

94
papers

3,275
citations

27
h-index

56
g-index

104
ext. papers

3,960
ext. citations

5.3
avg, IF

5.36
L-index

#	Paper	IF	Citations
94	Electron-Ion Collider: The next QCD frontier. <i>European Physical Journal A</i> , 2016 , 52, 1	2.5	512
93	The physics of ultraperipheral collisions at the LHC. <i>Physics Reports</i> , 2008 , 458, 1-171	27.7	334
92	PHYSICS OF ULTRA-PERIPHERAL NUCLEAR COLLISIONS. <i>Annual Review of Nuclear and Particle Science</i> , 2005 , 55, 271-310	15.7	271
91	Exclusive vector meson production in relativistic heavy ion collisions. <i>Physical Review C</i> , 1999 , 60,	2.7	205
90	Suppression of bremsstrahlung and pair production due to environmental factors. <i>Reviews of Modern Physics</i> , 1999 , 71, 1501-1538	40.5	145
89	Invited review article: IceCube: an instrument for neutrino astronomy. <i>Review of Scientific Instruments</i> , 2010 , 81, 081101	1.7	139
88	First supermodule of the MACRO detector at Gran Sasso. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1993 , 324, 337-362	1.2	125
87	STARlight: A Monte Carlo simulation program for ultra-peripheral collisions of relativistic ions. <i>Computer Physics Communications</i> , 2017 , 212, 258-268	4.2	118
86	Interference in exclusive vector meson production in heavy-ion collisions. <i>Physical Review Letters</i> , 2000 , 84, 2330-3	7.4	85
85	LHC forward physics. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2016 , 43, 110201	2.9	75
84	Coherent vector-meson photoproduction with nuclear breakup in relativistic heavy-ion collisions. <i>Physical Review Letters</i> , 2002 , 89, 012301	7.4	73
83	Photoproduction of quarkonium in proton-proton and nucleus-nucleus collisions. <i>Physical Review Letters</i> , 2004 , 92, 142003	7.4	68
82	Milagrito, a TeV air-shower array. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000 , 449, 478-499	1.2	55
81	Multi-photon exchange processes in ultraperipheral relativistic heavy-ion collisions. <i>Nuclear Physics A</i> , 2003 , 729, 787-808	1.3	43
80	Two-photon interactions with nuclear breakup in relativistic heavy ion collisions. <i>Physical Review C</i> , 2009 , 80,	2.7	41
79	Study of penetrating cosmic ray muons and search for large scale anisotropies at the Gran Sasso Laboratory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990 , 249, 149-156	4.2	39
78	Searches for new quarks and leptons produced in Z-boson decay. <i>Physical Review Letters</i> , 1989 , 63, 2447-2451	2.5	38

77	The High-Energy Gamma-Ray Fluence and Energy Spectrum of GRB 970417a from Observations with Milagro. <i>Astrophysical Journal</i> , 2003 , 583, 824-832	4.7	37
76	Heavy quark photoproduction in ultraperipheral heavy ion collisions. <i>Physical Review C</i> , 2002 , 66,	2.7	36
75	New limit on the rate-density of evaporating black holes. <i>Physical Review Letters</i> , 1993 , 71, 2524-2527	7.4	35
74	A prototype station for ARIANNA: A detector for cosmic neutrinos. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010 , 624, 85-91	1.2	33
73	Pseudorapidity asymmetry and centrality dependence of charged hadron spectra in d+Au collisions at $\sqrt{s_{NN}}=200\text{GeV}$. <i>Physical Review C</i> , 2004 , 70,	2.7	33
72	Study of the ultrahigh-energy primary-cosmic-ray composition with the MACRO experiment. <i>Physical Review D</i> , 1992 , 46, 895-902	4.9	33
71	Study of the primary cosmic ray composition around the knee of the energy spectrum. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994 , 337, 376-382	4.2	32
70	Localized beampipe heating due to e ⁺ capture and nuclear excitation in heavy ion colliders. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001 , 459, 51-57	1.2	30
69	Acoplanarity of a Lepton Pair to Probe the Electromagnetic Property of Quark Matter. <i>Physical Review Letters</i> , 2019 , 122, 132301	7.4	27
68	Electron and photon interactions in the regime of strong Landau-Pomeranchuk-Migdal suppression. <i>Physical Review D</i> , 2010 , 82,	4.9	27
67	Search for nuclearites using the MACRO detector. <i>Physical Review Letters</i> , 1992 , 69, 1860-1863	7.4	27
66	Search for slowly moving magnetic monopoles with the MACRO detector. <i>Physical Review Letters</i> , 1994 , 72, 608-612	7.4	26
65	Measurement of the decoherence function with the MACRO detector at Gran Sasso. <i>Physical Review D</i> , 1992 , 46, 4836-4845	4.9	26
64	Two-photon production of dilepton pairs in peripheral heavy ion collisions. <i>Physical Review C</i> , 2018 , 97,	2.7	25
63	Astronomy and astrophysics with neutrinos. <i>Physics Today</i> , 2008 , 61, 29-35	0.9	24
62	Muon astronomy with the MACRO detector. <i>Astrophysical Journal</i> , 1993 , 412, 301	4.7	23
61	MUON ACCELERATION IN COSMIC-RAY SOURCES. <i>Astrophysical Journal</i> , 2013 , 779, 106	4.7	22
60	Search for neutrino bursts from collapsing stars with the MACRO detector. <i>Astroparticle Physics</i> , 1992 , 1, 11-25	2.4	22

59	A full-acceptance detector at the LHC (FELIX). <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2002 , 28, R117-R215	2.9	21
58	Improvements in the CR39 polymer for the macro experiment at the Gran Sasso Laboratory. <i>International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements</i> , 1991 , 19, 641-646		21
57	Graph Neural Networks for IceCube Signal Classification 2018 ,		20
56	Imaging the nucleus with high-energy photons. <i>Nature Reviews Physics</i> , 2019 , 1, 662-674	23.6	19
55	Exclusive vector meson production at an electron-ion collider. <i>Physical Review C</i> , 2019 , 99,	2.7	18
54	Photonuclear and Two-Photon Interactions at High-Energy Nuclear Colliders. <i>Annual Review of Nuclear and Particle Science</i> , 2020 , 70, 323-354	15.7	18
53	Radar absorption, basal reflection, thickness and polarization measurements from the Ross Ice Shelf, Antarctica. <i>Journal of Glaciology</i> , 2015 , 61, 438-446	3.4	17
52	e+e- Pair production from 10 GeV to 10 ZeV. <i>Radiation Physics and Chemistry</i> , 2006 , 75, 696-711	2.5	17
51	Simultaneous observation of extensive air showers and deep-underground muons at the Gran Sasso Laboratory. <i>Physical Review D</i> , 1990 , 42, 1396-1403	4.9	16
50	Ultra-peripheral collisions and hadronic structure. <i>Nuclear Physics A</i> , 2017 , 967, 249-256	1.3	14
49	Lepton pair production through two photon process in heavy ion collisions. <i>Physical Review D</i> , 2020 , 102,	4.9	13
48	A Radio Detector Array for Cosmic Neutrinos on the Ross Ice Shelf. <i>IEEE Transactions on Nuclear Science</i> , 2013 , 60, 637-643	1.7	12
47	IceCube: A Cubic Kilometer Radiation Detector. <i>IEEE Transactions on Nuclear Science</i> , 2009 , 56, 1141-1147	1.7	12
46	A Search for Ultra-High-Energy Gamma-Ray Emission from Five Supernova Remnants. <i>Astrophysical Journal</i> , 1995 , 448,	4.7	12
45	Daily search for emission of ultra-high-energy radiation from point sources. <i>Astrophysical Journal</i> , 1993 , 405, 353	4.7	12
44	Search for Emission of Ultra-High-Energy Radiation from Active Galactic Nuclei. <i>Astrophysical Journal</i> , 1993 , 418, 832	4.7	12
43	Coherent $\rho_{\{0\}}$ photoproduction in bulk matter at high energies. <i>Physical Review Letters</i> , 2009 , 103, 062504	7.4	11
42	High energy cosmic-ray interactions with particles from the Sun. <i>Physical Review D</i> , 2011 , 83,	4.9	10

41	A new contribution to the conventional atmospheric neutrino flux. <i>Astroparticle Physics</i> , 2015 , 64, 13-17	2.4	9
40	Photoproduction of charged final states in ultraperipheral collisions and electroproduction at an electron-ion collider. <i>Physical Review C</i> , 2019 , 100,	2.7	9
39	Cherenkov radiation from e^+e^- pairs and its effect on μ induced showers. <i>Physical Review D</i> , 2005 , 72,	4.9	7
38	Deuteron photodissociation in ultraperipheral relativistic heavy-ion on deuteron collisions. <i>Physical Review C</i> , 2003 , 68,	2.7	7
37	Supersymmetric and Kaluza-Klein particles multiple scattering in the Earth. <i>Physical Review D</i> , 2009 , 80,	4.9	6
36	Does particle decay cause wave function collapse: an experimental test. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2003 , 308, 323-328	2.3	6
35	Arrival time distributions of very high energy cosmic ray muons in MACRO. <i>Nuclear Physics B</i> , 1992 , 370, 432-444	2.8	6
34	Nuclear effects in high-energy neutrino interactions. <i>Physical Review C</i> , 2020 , 102,	2.7	5
33	Coherent photoproduction of ρ vector mesons in ultra-peripheral Pb-Pb collisions at ($\sqrt{s_{\mathrm{NN}}}$) = 5.02 TeV. <i>Journal of High Energy Physics</i> , 2020 , 2020, 1	5.4	5
32	Muon Production in Relativistic Cosmic-Ray Interactions. <i>Nuclear Physics A</i> , 2009 , 830, 869c-872c	1.3	5
31	Heavy nuclei, from RHIC to the cosmos. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003 , 122, 76-85		5
30	Audiofrequency measurement of JFET noise versus temperature in a high-impedance preamplifier. <i>Review of Scientific Instruments</i> , 1985 , 56, 1941-1945	1.7	5
29	Comment on μ production in photon-induced interactions at the LHC <i>Physical Review D</i> , 2018 , 98,	4.9	5
28	Rotor electrometer: New instrument for bulk matter quark search experiments. <i>Review of Scientific Instruments</i> , 1986 , 57, 2691-2698	1.7	4
27	Heavy ion beam loss mechanisms at an electron-ion collider. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014 , 17,		4
26	Ultraperipheral nuclear collisions. <i>Physics Today</i> , 2017 , 70, 40-47	0.9	3
25	Radiodetection of Neutrinos. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2012 , 229-232, 284-288		3
24	Studying High pT Muons in Cosmic-Ray Air Showers. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2008 , 175-176, 346-349		3

23	First Results from IceCube. <i>AIP Conference Proceedings</i> , 2006 ,	0	3
22	Couderc and Klein Reply:. <i>Physical Review Letters</i> , 2009 , 103,	7.4	2
21	Physics: Invest in neutrino astronomy. <i>Nature</i> , 2016 , 533, 462-4	50.4	2
20	Production of pions, kaons, (anti-)protons and (ϕ) mesons in XeXe collisions at $(\sqrt{s_{\mathrm{NN}}}) = 5.44$ TeV. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	2
19	Recent Highlights from IceCube. <i>Brazilian Journal of Physics</i> , 2014 , 44, 540-549	1.2	1
18	Double neutrino production and detection in neutrino detectors. <i>Physical Review D</i> , 2013 , 88,	4.9	1
17	Recent Results from RHIC & Some Lessons for Cosmic-Ray Physicists. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2008 , 175-176, 9-16		1
16	A multiplexed 200 MSPS waveform digitizer with zero suppression for MACRO. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1991 , 309, 536-544	1.2	1
15	Coherent (J/ψ) and (Υ) photoproduction at midrapidity in ultra-peripheral PbPb collisions at $(\sqrt{s_{\mathrm{NN}}}) \sim 5.02$ TeV. <i>European Physical Journal C</i> , 2021 , 81, 1	4.2	1
14	Prompt D^0 , D^+ , and D^{*+} production in PbPb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. <i>Journal of High Energy Physics</i> , 2022 , 2022, 1	5.4	1
13	Using precision timing to improve particle tracking. <i>Journal of Instrumentation</i> , 2020 , 15, P03024-P03024		0
12	High-energy neutrino interaction physics with IceCube. <i>EPJ Web of Conferences</i> , 2019 , 208, 09001	0.3	
11	. <i>Computer</i> , 2014 , 47, 56-61	1.6	
10	Particle interactions in matter at the terascale: The cosmic-ray experience. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2013 , 315, 14-20	1.2	
9	Recentvs from IceCube. <i>Journal of Physics: Conference Series</i> , 2008 , 136, 022050	0.3	
8	INTRODUCTION TO THE SALSA, A SALTDOME SHOWER ARRAY AS A GZK NEUTRINO OBSERVATORY. <i>International Journal of Modern Physics A</i> , 2006 , 21, 252-253	1.2	
7	TEXAS: a calorimeter-based high-rate detector for the SSC. <i>Nuclear Instruments & Methods in Physics Research B</i> , 1991 , 56-57, 948-951	1.2	
6	First results from the MACRO experiment at the Gran Sasso Laboratory. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1991 , 19, 128-137		

- 5 Cosmic ray search for strange quark matter with the macro detector. *Nuclear Physics, Section B, Proceedings Supplements*, **1991**, 24, 191-194
- 4 Search for stellar gravitational collapse by MACRO: Characteristics and results. *Nuclear Physics, Section B, Proceedings Supplements*, **1992**, 28, 61-64
- 3 Measurement of electromagnetic and TEV muon components of extensive air showers by eas-top and MACRO experiments. *Nuclear Physics, Section B, Proceedings Supplements*, **1992**, 28, 393-396
- 2 Status report of the macro experiment at gran sasso. *Nuclear Physics, Section B, Proceedings Supplements*, **1990**, 13, 368-371
- 1 First results from the MACRO detector at the Gran Sasso Laboratory. *Nuclear Physics, Section B, Proceedings Supplements*, **1990**, 16, 486-487