

# Juan Jose Gomez Cadenas

## List of Publications by Year in descending order

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243  
papers

28,475  
citations

41344

49  
h-index

5120

166  
g-index

244  
all docs

244  
docs citations

244  
times ranked

19063  
citing authors

#	ARTICLE	IF	CITATIONS
1	Geant4—a simulation toolkit. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 506, 250-303.	1.6	17,893
2	Indication of Electron Neutrino Appearance from an Accelerator-Produced Off-Axis Muon Neutrino Beam. Physical Review Letters, 2011, 107, 041801.	7.8	1,054
3	The T2K experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 659, 106-135.	1.6	585
4	Measurement of neutrino oscillation by the K2K experiment. Physical Review D, 2006, 74, .	4.7	498
5	Evidence for Muon Neutrino Oscillation in an Accelerator-Based Experiment. Physical Review Letters, 2005, 94, 081802.	7.8	375
6	Observation of Electron Neutrino Appearance in a Muon Neutrino Beam. Physical Review Letters, 2014, 112, 061802.	7.8	369
7	On the measurement of leptonic CP violation. Nuclear Physics B, 2001, 608, 301-318.	2.5	246
8	Measurement of the mass and width of the Z0-particle from multihadronic final states produced in e+e- annihilations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 231, 539-547.	4.1	200
9	A study of quasi-elastic muon neutrino and antineutrino scattering in the NOMAD experiment. European Physical Journal C, 2009, 63, 355-381.	3.9	193
10	Physics at a future Neutrino Factory and super-beam facility. Reports on Progress in Physics, 2009, 72, 106201.	20.1	174
11	T2K neutrino flux prediction. Physical Review D, 2013, 87, .	4.7	165
12	Search for $\nu_{\mu} \rightarrow \nu_{\tau}$ oscillations in the NOMAD experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 570, 19-31.	4.1	163
13	The NOMAD experiment at the CERN SPS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 404, 96-128.	1.6	157
14	Measurements of Z-boson resonance parameters in e+e- annihilation. Physical Review Letters, 1989, 63, 2173-2176.	7.8	146
15	Measurement of the quasielastic axial vector mass in neutrino interactions on oxygen. Physical Review D, 2006, 74, .	4.7	143
16	Initial measurements of Z-boson resonance parameters in e+e- annihilation. Physical Review Letters, 1989, 63, 724-727.	7.8	131
17	Final NOMAD results on $\nu_{\mu} \rightarrow \nu_{\tau}$ , and $\nu_{\mu} \rightarrow \nu_{\tau}$ , oscillations including a new search for $\nu_{\tau}$ appearance using hadronic $Z^0$ decays. Nuclear Physics B, 2001, 611, 3-39.	2.5	117
18	Evidence of electron neutrino appearance in a muon neutrino beam. Physical Review D, 2013, 88, .	4.7	116



#	ARTICLE	IF	CITATIONS
37	Bose-Einstein correlations in the hadronic decays of the Z0. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 286, 201-210.	4.1	69
38	The Mark II detector for the SLC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 281, 55-80.	1.6	68
39	Determination of Z0 resonance parameters and couplings from its hadronic and leptonic decays. Nuclear Physics B, 1991, 367, 511-574.	2.5	65
40	Future $\hat{1}/2 \hat{I}$ , oscillation experiments and present data. Zeitschrift für Physik C-Particles and Fields, 1996, 71, 443-454.	1.5	65
41	Dual baseline search for muon antineutrino disappearance at $0.1 \hat{a} \hat{e} V^2 < \hat{I}^2 m^2 < 100 \hat{a} \hat{e} V^2$ . Physical Review D, 2012, 86, .	4.7	64
42	Measurement of the production cross-section of positive pions in p $\hat{a}$ Al collisions at. Nuclear Physics B, 2006, 732, 1-45.	2.5	63
43	NEXT-100 Technical Design Report (TDR). Executive summary. Journal of Instrumentation, 2012, 7, T06001-T06001.	1.2	62
44	Determination of $\hat{I} \hat{s}$ from a differential-jet-multiplicity distribution in e $\hat{a}$ e $\hat{a}$ collisions at $\hat{s} = 29$ and 91 GeV. Physical Review Letters, 1990, 64, 987-990.	7.8	59
45	A precision measurement of charm dimuon production in neutrino interactions from the NOMAD experiment. Nuclear Physics B, 2013, 876, 339-375.	2.5	59
46	The HARP detector at the CERN PS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 571, 527-561.	1.6	54
47	b-tagging in DELPHI at LEP. European Physical Journal C, 2004, 32, 185-208.	3.9	53
48	Near-intrinsic energy resolution for 30 $\hat{a}$ 62keV gamma rays in a high pressure xenon electroluminescent TPC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 708, 101-114.	1.6	52
49	A search for $\hat{1}/2 \hat{I} \hat{I}$ , oscillations using the NOMAD detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 431, 219-236.	4.1	51
50	Sense and sensitivity of double beta decay experiments. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 007-007.	5.4	50
51	Prediction of neutrino fluxes in the NOMAD experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 515, 800-828.	1.6	49
52	Coherent elastic neutrino-nucleus scattering at the European Spallation Source. Journal of High Energy Physics, 2020, 2020, 1.	4.7	48
53	Neutrino fluxes at future hadron colliders. Nuclear Physics B, 1993, 405, 80-108.	2.5	46
54	Present Status and Future Perspectives of the NEXT Experiment. Advances in High Energy Physics, 2014, 2014, 1-22.	1.1	46

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55	Measurements of charged-particle inclusive distributions in hadronic decays of the Z boson. Physical Review Letters, 1990, 64, 1334-1337.	7.8	45
56	Production of $\hat{b}$ and $\hat{c}$ correlations in the hadronic decays of the Z0. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 318, 249-262.	4.1	45
57	Improved Search for $\nu_e \rightarrow \nu_\mu$ Oscillation in a Long-Baseline Accelerator Experiment. Physical Review Letters, 2006, 96, 181801.	7.8	45
58	Neutrino production of opposite sign dimuons in the NOMAD experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 486, 35-48.	4.1	44
59	Large-angle production of charged pions with $3 \leq \theta \leq 12.9$ GeV/c incident protons on nuclear targets. Physical Review C, 2008, 77, .	2.9	44
60	Background rejection in NEXT using deep neural networks. Journal of Instrumentation, 2017, 12, T01004-T01004.	1.2	43
61	Beam and experiments: summary. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 451, 102-122.	1.6	41
62	Energy-energy correlations in hadronic final states from Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 252, 149-158.	4.1	40
63	Publisher's Note: T2K neutrino flux prediction [Phys. Rev. D 87, 012001 (2013)]. Physical Review D, 2013, 87, .	4.7	40
64	First proof of topological signature in the high pressure xenon gas TPC with electroluminescence amplification for the NEXT experiment. Journal of High Energy Physics, 2016, 2016, 1.	4.7	40
65	Demonstration of Single-Barium-Ion Sensitivity for Neutrinoless Double-Beta Decay Using Single-Molecule Fluorescence Imaging. Physical Review Letters, 2018, 120, 132504.	7.8	40
66	Searches for new quarks and leptons produced in Z-boson decay. Physical Review Letters, 1989, 63, 2447-2451.	7.8	39
67	Measurement of single charged pion production in the charged-current interactions of neutrinos in a 1.3 GeV wide band beam. Physical Review D, 2008, 78, .	4.7	39
68	A search for neutral Higgs particles in Z0 decays. Nuclear Physics B, 1992, 373, 3-34.	2.5	38
69	Evidence for B <sub>S</sub> meson production in Z0 decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 289, 199-210.	4.1	38
70	Production of charged particles, K <sub>S</sub> <sup>0</sup> , K <sub>L</sub> <sup>±</sup> , p and $\hat{b}$ in events and in the decay of b hadrons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 347, 447-466.	4.1	38
71	Tau polarization at the Z peak from the acollinearity between both $\tau$ -decay products. Nuclear Physics B, 1992, 379, 3-23.	2.5	36
72	Classification of the hadronic decays of the Z0 into b and c quark pairs using a neural network. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 295, 383-395.	4.1	36

#	ARTICLE	IF	CITATIONS
73	Measurement of the polarization in $\hat{1}/2\hat{1}/4$ charged current interactions in the NOMAD experiment. Nuclear Physics B, 2001, 605, 3-14.	2.5	36
74	International Scoping Study (ISS) for a future neutrino factory and Super-Beam facility. Detectors and flux instrumentation for future neutrino facilities. Journal of Instrumentation, 2009, 4, T05001-T05001.	1.2	36
75	Search for a new gauge boson in $\hat{1}\hat{0}$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 428, 197-205.	4.1	35
76	Initial results of NEXT-DEMO, a large-scale prototype of the NEXT-100 experiment. Journal of Instrumentation, 2013, 8, P04002-P04002.	1.2	35
77	The K2K SciBar detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 535, 147-151.	1.6	34
78	A more sensitive search for $\hat{1}/2\hat{1}/4\hat{1}/2\hat{1}/2\hat{1}$ , oscillations in NOMAD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 453, 169-186.	4.1	33
79	Measurement of inclusive neutral current $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle \hat{1}\hat{0} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 0 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle \text{production}$ on carbon in a few-GeV neutrino beam. Physical Review D, 2010, 81, .	4.7	33
80	Improved measurement of neutral current coherent $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle \hat{1}\hat{0} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 0 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle \text{production}$ on carbon in a few-GeV neutrino beam. Physical Review D, 2010, 81, .	4.7	33
81	The reaction $e+e\hat{1}\hat{0} \hat{1}\hat{0} \hat{1}\hat{3}(\hat{1}\hat{3})$ at Z0 energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 268, 296-304.	4.1	32
82	First measurements of hadronic decays of the Z boson. Physical Review Letters, 1989, 63, 1558-1561.	7.8	31
83	Operation and first results of the NEXT-DEMO prototype using a silicon photomultiplier tracking array. Journal of Instrumentation, 2013, 8, P09011-P09011.	1.2	31
84	Study of the leptonic decays of the Z0 boson. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 241, 425-434.	4.1	30
85	Measurement of the $e+e\hat{1}\hat{0} \hat{1}\hat{0} \hat{1}\hat{3}(\hat{1}\hat{3})$ cross section at LEP energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 327, 386-396.	4.1	30
86	Limits on the production of scalar leptoquarks from Z0 decays at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 316, 620-630.	4.1	29
87	Measurement of inclusive production of light meson resonances in hadronic decays of the Z0. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 298, 236-246.	4.1	29
88	A measurement of coherent neutral pion production in neutrino neutral current interactions in the NOMAD experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 682, 177-184.	4.1	29
89	Accurate $\hat{1}\hat{3}$ and MeV-electron track reconstruction with an ultra-low diffusion Xenon/TMA TPC at 10 atm. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 804, 8-24.	1.6	29
90	$J/\psi$ production in the hadronic decays of the Z. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 341, 109-122.	4.1	28

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91	Measurement of the production of charged pions by protons on a tantalum target. European Physical Journal C, 2007, 51, 787-824.	3.9	28
92	Light sterile neutrino sensitivity at the nuSTORM facility. Physical Review D, 2014, 89, .	4.7	28
93	A measurement of $\sin^2\hat{\theta}_W$ from the charge asymmetry of hadronic events at the Z0 peak. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 277, 371-382.	4.1	27
94	Sensitivity of a tonne-scale NEXT detector for neutrinoless double-beta decay searches. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
95	The decay $\tilde{L}_i \rightarrow \hat{\nu}_i + K^+ + \tilde{L}_j$ , and the $\hat{m}_{\tilde{L}_i}$ , mass. Physical Review D, 1990, 42, 3093-3099.	4.7	26
96	Measurement of $\hat{\Gamma}_b$ production and lifetime in Z0 hadronic decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 311, 379-390.	4.1	26
97	A search for single photon events in neutrino interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 706, 268-275.	4.1	26
98	Measurement of the intrinsic electron neutrino component in the T2K neutrino beam with the ND280 detector. Physical Review D, 2014, 89, .	4.7	26
99	High intensity neutrino oscillation facilities in Europe. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	25
100	Measurements of the lineshape of the Z0 and determination of electroweak parameters from its hadronic and leptonic decays. Nuclear Physics B, 1994, 417, 3-57.	2.5	24
101	â€œRecPackâ€• a reconstruction toolkit. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 534, 180-183.	1.6	24
102	Measurement of the production cross-sections of $\tilde{L}_i$ in $p\bar{p} \rightarrow C$ and searches for supersymmetric particles produced in Z-boson decay. Physical Review Letters, 1990, 64, 2984-2987.	7.8	23
103	Searches for supersymmetric particles produced in Z-boson decay. Physical Review Letters, 1990, 64, 2984-2987.	7.8	23
104	Multiplicity fluctuations in hadronic final states from the decay of the Z0. Nuclear Physics B, 1992, 386, 471-492.	2.5	23
105	Measurement of $\frac{\Gamma_{\bar{b}}}{\Gamma_{had}}$ using impact parameter measurements and lepton identification. Zeitschrift f�ur Physik C-Particles and Fields, 1995, 66, 323-339.	1.5	23
106	Performance of long modules of silicon microstrip detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 413, 17-30.	1.6	23
107	Fluorescent bicolour sensor for low-background neutrinoless double $\hat{\Gamma}^2$ decay experiments. Nature, 2020, 583, 48-54.	27.8	23
108	Measurement of the partial width of the Z0 into $\bar{b}b$ final states using their semi-leptonic decays. Zeitschrift f�ur Physik C-Particles and Fields, 1992, 56, 47-61.	1.5	22

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109	Searches for heavy neutrinos from Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 274, 230-238.	4.1	22
110	PHYSICS OPPORTUNITIES AT NEUTRINO FACTORIES. Annual Review of Nuclear and Particle Science, 2002, 52, 253-302.	10.2	22
111	Large-angle production of charged pions by 3-12.9 GeV/c protons on carbon, copper and tin targets. European Physical Journal C, 2008, 53, 177-204.	3.9	22
112	Large-angle production of charged pions by 3-12.9 GeV/c protons on beryllium, aluminium and lead targets. European Physical Journal C, 2008, 54, 37-60.	3.9	22
113	Secondary scintillation yield in high-pressure xenon gas for neutrinoless double beta decay <math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><math>0</math><math>1/2</math><math>1/2</math><math>1/2</math><math>1/2</math></math> Particle and High-Energy Physics, 2010, 684, 205-210.	4.1	22
114	Primary and secondary scintillation measurements in a Xenon Gas Proportional Scintillation Counter. Journal of Instrumentation, 2010, 5, P09006-P09006.	1.2	22
115	Radiopurity control in the NEXT-100 double beta decay experiment: procedures and initial measurements. Journal of Instrumentation, 2013, 8, T01002-T01002.	1.2	22
116	Characterisation of NEXT-DEMO using xenon $K\pm X$ -rays. Journal of Instrumentation, 2014, 9, P10007-P10007.	1.2	22
117	Ionization and scintillation response of high-pressure xenon gas to alpha particles. Journal of Instrumentation, 2013, 8, P05025-P05025.	1.2	21
118	A neutrino apparatus with improved capabilities for a short baseline $\bar{\nu}_e$ ( $\nu_e$ ) search. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 378, 196-220.	1.6	20
119	Prompt $\bar{\nu}_e$ fluxes in present and future neutrino experiments. Physical Review D, 1997, 55, 1297-1306.	4.7	20
120	Measurement of the neutrino-oxygen neutral-current interaction cross section by observing nuclear deexcitation $\nu_e$ ( $\bar{\nu}_e$ ) rays. Physical Review D, 2014, 90, .	4.7	20
121	Radiopurity assessment of the tracking readout for the NEXT double beta decay experiment. Journal of Instrumentation, 2015, 10, P05006-P05006.	1.2	20
122	Calibration of the NEXT-White detector using $^{83m}\text{Kr}$ decays. Journal of Instrumentation, 2018, 13, P10014-P10014.	1.2	20
123	Measurement of the $b\bar{b}$ fraction in hadronic Z decays. Physical Review Letters, 1990, 64, 1211-1214.	7.8	19
124	Search for eV (pseudo)scalar penetrating particles in the SPS neutrino beam. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 479, 371-380.	4.1	19
125	Updated results from the $\bar{\nu}_e$ appearance search in NOMAD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 483, 387-404.	4.1	18
126	Forward production of charged pions with incident protons on nuclear targets at the CERN Proton Synchrotron. Physical Review C, 2009, 80, .	2.9	18

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127	Microscopic simulation of xenon-based optical TPCs in the presence of molecular additives. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 877, 157-172.	1.6	18
128	A measurement of the lifetime of the tau lepton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 267, 422-430.	4.1	17
129	A measurement of the tau lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 302, 356-368.	4.1	17
130	Measurement of the forward-backward asymmetry of $e^+e^- \rightarrow Z^0 \rightarrow b\bar{b}$ using prompt leptons and a lifetime tag. Zeitschrift für Physik C-Particles and Fields, 1995, 65, 569-585.	1.5	17
131	Search for $\nu_e \rightarrow \nu_\mu$ oscillations with a detector based on an emulsion-silicon target. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 381, 223-235.	1.6	17
132	Measurement of $K^+$ production cross section by 8 GeV protons using high-energy neutrino interactions in the SciBooNE detector. Physical Review D, 2011, 84, .	4.7	17
133	Characterization of a medium size Xe/TMA TPC instrumented with microbulk Micromegas, using low-energy $^3\text{He}$ -rays. Journal of Instrumentation, 2014, 9, C04015-C04015.	1.2	17
134	Conditions for statistical determination of the neutrino mass spectrum in radiative emission of neutrino pairs in atoms. Physical Review D, 2016, 93, .	4.7	17
135	Helium-Xenon mixtures to improve the topological signature in high pressure gas xenon TPCs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 905, 82-90.	1.6	17
136	Measurement of $Z$ decays into lepton pairs. Physical Review Letters, 1989, 63, 2780-2783.	7.8	16
137	Measurement of the $b$ -fraction in hadronic $Z^0$ decays with precision vertex detectors. Physical Review Letters, 1991, 67, 3347-3350.	7.8	16
138	Measurement of the $\Gamma_{\text{had}}/\Gamma_{\text{had}} + \Gamma_{\text{lep}}$ branching ratio of the $Z^0$ by double hemisphere tagging. Zeitschrift für Physik C-Particles and Fields, 1995, 65, 555-568.	1.5	16
139	Inclusive production of $\rho(770)$ , $f_0(980)$ and $f_2(1270)$ mesons in $^1/2^-$ charged current interactions. Nuclear Physics B, 2001, 601, 3-23.	2.5	16
140	Study of $D_s^+$ production in $^1/2^-$ charged current interactions in the NOMAD experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 526, 278-286.	4.1	16
141	Forward production of charged pions with incident $\mu^+$ on nuclear targets measured at the CERN PS. Nuclear Physics A, 2009, 821, 118-192.	1.5	16
142	Future limits on the $\nu_e$ mass. Physical Review D, 1990, 41, 2179-2186.	4.7	15
143	Charged kaon production in tau decays at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 334, 435-449.	4.1	15
144	A study of backward going $p$ and $\bar{p}$ in interactions with the NOMAD detector. Nuclear Physics B, 2001, 609, 255-279.	2.5	15





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181	Can we improve the $\tilde{\nu}_\tau$ mass limit from the decay $\tilde{\nu}_\tau \rightarrow \nu_\tau \tilde{W}^{\pm}$ ? Physical Review D, 1989, 39, 1370-1377.	4.7	9
182	A study of the reaction $e^+e^- \rightarrow \gamma^* \rightarrow \nu_e \bar{\nu}_e$ around the Z0 pole. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 260, 240-248.	4.1	9
183	Search for elastic nondiagonal lepton-pair production in $e^+e^-$ annihilation at $\sqrt{s}=29$ GeV. Physical Review Letters, 1991, 66, 1007-1010.	7.8	9
184	Experimental study of the atmospheric neutrino backgrounds for $\nu_e$ searches in water Cherenkov detectors. Physical Review D, 2008, 77, .	4.7	9
185	NEXT, high-pressure xenon gas experiments for ultimate sensitivity to Majorana neutrinos. Journal of Instrumentation, 2012, 7, C11007-C11007.	1.2	9
186	An improved measurement of electron-ion recombination in high-pressure xenon gas. Journal of Instrumentation, 2015, 10, P03025-P03025.	1.2	9
187	Mitigation of backgrounds from cosmogenic $^{137}\text{Xe}$ in xenon gas experiments using $^3\text{He}$ neutron capture. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 075001.	3.6	9
188	Search for long-lived massive neutrinos in Z decays. Physical Review Letters, 1990, 64, 1091-1094.	7.8	8
189	A study of strange particles produced in neutrino neutral current interactions in the NOMAD experiment. Nuclear Physics B, 2004, 700, 51-68.	2.5	8
190	Production properties of $K^*(892)^{\pm}$ vector mesons and their spin alignment as measured in the NOMAD experiment. European Physical Journal C, 2006, 46, 69-79.	3.9	8
191	Search for the exotic $\tilde{T}^+$ resonance in the NOMAD experiment. European Physical Journal C, 2007, 49, 499-510.	3.9	8
192	NEXT, a HPXe TPC for neutrinoless double beta decay searches. Journal of Physics: Conference Series, 2008, 136, 042048.	0.4	8
193	Energy resolution studies for NEXT. Journal of Instrumentation, 2011, 6, P05007-P05007.	1.2	8
194	Radiopurity control in the NEXT-100 double beta decay experiment. , 2013, , .		8
195	Status and physics potential of NEXT-100. Journal of Physics: Conference Series, 2013, 460, 012010.	0.4	8
196	Application and performance of an ML-EM algorithm in NEXT. Journal of Instrumentation, 2017, 12, P08009-P08009.	1.2	8
197	High voltage insulation and gas absorption of polymers in high pressure argon and xenon gases. Journal of Instrumentation, 2018, 13, P10002-P10002.	1.2	8
198	Direct search for pair production of heavy stable charged particles in Z decays. Physical Review Letters, 1990, 64, 2980-2983.	7.8	7

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199	Search for nonminimal neutral Higgs bosons from Z-boson decays. <i>Physical Review Letters</i> , 1990, 64, 2881-2884.	7.8	7
200	Search for Z0 decays to two leptons and a charged particle-antiparticle pair. <i>Nuclear Physics B</i> , 1993, 403, 3-24.	2.5	7
201	Kalman filter tracking and vertexing in a silicon detector for neutrino physics. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 486, 639-662.	1.6	7
202	Design, construction, and initial performance of SciBar detector in K2K experiment. <i>IEEE Transactions on Nuclear Science</i> , 2005, 52, 2992-2997.	2.0	7
203	NEXT: Neutrino Experiment with high pressure Xenon gas TPC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 617, 520-522.	1.6	7
204	Programmable power supply system for SiPM bias. , 2011, , .		7
205	Design and characterization of the SiPM tracking system of NEXT-DEMO, a demonstrator prototype of the NEXT-100 experiment. <i>Journal of Instrumentation</i> , 2013, 8, T05002-T05002.	1.2	7
206	Multiplicity dependence of mean transverse momentum in $e+e^-$ annihilations at LEP energies. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1992, 276, 254-262.	4.1	6
207	Performance of the NOMAD-STAR detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 506, 217-237.	1.6	6
208	Comparison of large-angle production of charged pions with incident protons on cylindrical long and short targets. <i>Physical Review C</i> , 2009, 80, .	2.9	6
209	Discovery potential of xenon-based neutrinoless double beta decay experiments in light of small angular scale CMB observations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 043-043.	5.4	6
210	Toroidal magnetized iron neutrino detector for a neutrino factory. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2013, 16, .	1.8	6
211	Monte Carlo study of the coincidence resolving time of a liquid xenon PET scanner, using Cherenkov radiation. <i>Journal of Instrumentation</i> , 2017, 12, P08023-P08023.	1.2	6
212	Bicolour fluorescent molecular sensors for cations: design and experimental validation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 15440-15457.	2.8	6
213	Measurement of the forward-backward asymmetry of charm and bottom quarks at the Z pole using $D^*_{i\frac{1}{2}}$ mesons. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1995, 66, 341-354.	1.5	5
214	The trigger system in the NEXT-DEMO detector. <i>Journal of Instrumentation</i> , 2012, 7, C12001-C12001.	1.2	5
215	The NEXT experiment. <i>Nuclear and Particle Physics Proceedings</i> , 2016, 273-275, 1732-1739.	0.5	5
216	Measurements of forward proton production with incident protons and charged pions on nuclear targets at the CERN Proton Synchrotron. <i>Physical Review C</i> , 2010, 82, .	2.9	4

#	ARTICLE	IF	CITATIONS
217	GraXe, graphene and xenon for neutrinoless double beta decay searches. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 037-037.	5.4	4
218	Results of the material screening program of the NEXT experiment. Nuclear and Particle Physics Proceedings, 2016, 273-275, 2666-2668.	0.5	4
219	A novel technique to achieve atomic macro-coherence as a tool to determine the nature of neutrinos. Applied Physics B: Lasers and Optics, 2016, 122, 1.	2.2	4
220	Study of the loss of xenon scintillation in xenon-trimethylamine mixtures. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 905, 22-28.	1.6	4
221	Low-diffusion Xe-He gas mixtures for rare-event detection: electroluminescence yield. Journal of High Energy Physics, 2020, 2020, 1.	4.7	4
222	Boosting background suppression in the NEXT experiment through Richardson-Lucy deconvolution. Journal of High Energy Physics, 2021, 2021, 1.	4.7	4
223	Bose-Einstein correlations in charged current muon-neutrino interactions in the NOMAD experiment at CERN. Nuclear Physics B, 2004, 686, 3-28.	2.5	3
224	Addendum: Primary and secondary scintillation measurements in a Xenon Gas Proportional Scintillation Counter. Journal of Instrumentation, 2010, 5, A12001-A12001.	1.2	3
225	Application of scintillating properties of liquid xenon and silicon photomultiplier technology to medical imaging. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2016, 118, 6-13.	2.9	3
226	Backgrounds and sensitivity of the NEXT double beta decay experiment. Nuclear and Particle Physics Proceedings, 2016, 273-275, 2612-2614.	0.5	3
227	The electronics of the energy plane of the NEXT-White detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 917, 68-76.	1.6	3
228	Design of a wire imaging synchrotron radiation detector. IEEE Transactions on Nuclear Science, 1990, 37, 48-52.	2.0	2
229	Design of a large area silicon tracker for a future neutrino oscillation experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 386, 66-71.	1.6	2
230	The NEXT generation of neutrinoless double beta decay experiments. Journal of Physics: Conference Series, 2009, 171, 012068.	0.4	2
231	Mass production automated test system for the NEXT SiPM tracking plane. , 2012, , .		2
232	Recent Results from the T2K Experiment. Nuclear Physics, Section B, Proceedings Supplements, 2014, 246-247, 23-28.	0.4	2
233	Initial results from the HARP experiment at CERN. Nuclear Physics, Section B, Proceedings Supplements, 2005, 143, 291-296.	0.4	1
234	Neutrino oscillation physics with a higher $\hat{\nu}^3 \hat{\nu}^2$ -beam. Nuclear Physics, Section B, Proceedings Supplements, 2005, 145, 161-165.	0.4	1

#	ARTICLE	IF	CITATIONS
235	Front-end electronics for accurate energy measurement of double beta decays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 695, 407-409.	1.6	1
236	The Nuclear Environmentalist. , 2012, , .		1
237	Improved background rejection in neutrinoless double beta decay experiments using a magnetic field in a high pressure xenon TPC. Journal of Instrumentation, 2015, 10, P12020-P12020.	1.2	1
238	Measurement of very low ( $\hat{I}_{\pm,n}$ ) cross sections of astrophysical interest. Journal of Physics: Conference Series, 2016, 665, 012031.	0.4	1
239	A search for $\hat{I}_{\pm,n} \hat{I}_{\pm,n}$ oscillations using the NOMAD detector. Nuclear Physics, Section B, Proceedings Supplements, 1999, 77, 225-231.	0.4	0
240	A silicon tracker for track extrapolation into nuclear emulsions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 434, 218-226.	1.6	0
241	Summary of Working Group 3 at NuFact <sup>TM</sup> 00: interface between machine and physics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 472, 451-454.	1.6	0
242	b-tagging in DELPHI at LEP. European Physical Journal C, 2004, 32, 299-301.	3.9	0
243	THE NEXT EXPERIMENT AT THE LSC. Astroparticle, Particle, Space Physics, Radiation Interaction, Detectors and Medical Physics Applications, 2012, , 377-382.	0.1	0