List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Disposable Passive Microfluidic Device for Cell Culturing. Biosensors, 2020, 10, 18.	4.7	13
2	Influence of the Fabrication Accuracy of Hot-Embossed PCL Scaffolds on Cell Growths. Frontiers in Bioengineering and Biotechnology, 2020, 8, 84.	4.1	7
3	A Passive Microfluidic Device for Chemotaxis Studies. Micromachines, 2019, 10, 551.	2.9	16
4	Development of 3D PVA scaffolds for cardiac tissue engineering and cell screening applications. RSC Advances, 2019, 9, 4246-4257.	3.6	76
5	Subâ€Micrometer Zeolite Films on Goldâ€Coated Silicon Wafers with Singleâ€Crystalâ€Like Dielectric Constant and Elastic Modulus. Advanced Functional Materials, 2017, 27, 1700864.	14.9	11
6	The Physics of the B Factories. European Physical Journal C, 2014, 74, 1.	3.9	292
7	Dosimetric Study of Therapeutic Beams Using a Homogeneous Scintillating Fiber Layer. IEEE Transactions on Nuclear Science, 2013, 60, 109-114.	2.0	2
8	The BB detector: Upgrades, operation and performance. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 729, 615-701.	1.6	148
9	Intra-Operative Radiotherapy with Electron Beam. , 2012, , .		4
10	Dosimetry of High Intensity Electron Beams Produced by Dedicated Accelerators in Intra-Operative Radiation Therapy (IORT). IEEE Transactions on Nuclear Science, 2009, 56, 66-72.	2.0	5
11	The ATLAS Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08003-S08003.	1.2	1,752
12	Measurements of atmospheric muon neutrino oscillations, global analysis of the data collected with MACRO detector. European Physical Journal C, 2004, 36, 323-339.	3.9	100
13	Search for stellar gravitational collapses with the MACRO detector. European Physical Journal C, 2004, 37, 265-272.	3.9	9
14	The cosmic ray primary composition between 1015 and 1016 eV from Extensive Air Showers electromagnetic and TeV muon data. Astroparticle Physics, 2004, 20, 641-652.	4.3	71
15	The cosmic ray proton, helium and CNO fluxes in the 100 TeV energy region from TeV muons and EAS atmospheric Cherenkov light observations of MACRO and EAS-TOP. Astroparticle Physics, 2004, 21, 223-240.	4.3	47
16	A powerful simulation tool for medical physics applications: Geant4. Nuclear Physics, Section B, Proceedings Supplements, 2003, 125, 80-84.	0.4	8
17	Calibrations of CR39 and Makrofol nuclear track detectors and search for exotic particles. Nuclear Physics, Section B, Proceedings Supplements, 2003, 125, 217-221.	0.4	1
18	Moon and Sun shadowing effect in the MACRO detector. Astroparticle Physics, 2003, 20, 145-156.	4.3	29

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19	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
20	Atmospheric neutrino oscillations from upward throughgoing muon multiple scattering in MACRO. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 566, 35-44.	4.1	97
21	Search for cosmic ray sources using muons detected by the MACRO experiment. Astroparticle Physics, 2003, 18, 615-627.	4.3	9
22	Search for diffuse neutrino flux from astrophysical sources with MACRO. Astroparticle Physics, 2003, 19, 1-13.	4.3	35
23	Measurement of the residual energy of muons in the Gran Sasso underground laboratories. Astroparticle Physics, 2003, 19, 313-328.	4.3	32
24	Search for the sidereal and solar diurnal modulations in the total MACRO muon data set. Physical Review D, 2003, 67, .	4.7	52
25	Measurement ofDs+andDs*+production inBmeson decays and from continuume+eâ^'annihilation ats=10.6GeV. Physical Review D, 2002, 65, .	4.7	13
26	Measurement ofB0â^'BÂ ⁻ OFlavor Oscillations in HadronicB0Decays. Physical Review Letters, 2002, 88, 221802.	7.8	29
27	DirectCPviolation searches in charmless hadronicBmeson decays. Physical Review D, 2002, 65, .	4.7	17
28	Study ofCP-violating asymmetries inB0→π+Ï€â^',K+Ï€â^'decays. Physical Review D, 2002, 65, .	4.7	10
29	Study of time-dependentCP-violating asymmetries and flavor oscillations in neutralBdecays at theΥ(4S). Physical Review D, 2002, 66, .	4.7	134
30	Study ofB±→J/Ĩï€Â±andB±→J/Ĩ`K±decays: Measurement of the ratio of branching fractions and search for directCP-violating charge asymmetries. Physical Review D, 2002, 65, .	4.7	5
31	Measurement of branching fractions for exclusiveBdecays to charmonium final states. Physical Review D, 2002, 65, .	4.7	56
32	Measurement ofB→K*γBranching Fractions and Charge Asymmetries. Physical Review Letters, 2002, 88, 101805.	7.8	38
33	Measurement of theB0Lifetime with Partially ReconstructedB0→D*â^'â,,"+νâ,,"Decays. Physical Review Letters, 2002, 89, 011802.	7.8	11
34	Measurements of Branching Fractions andCP-Violating Asymmetries inB0→π+Ï€â^',K+Ï€â^',K+Kâ^'Decays. Physical Review Letters, 2002, 89, 281802.	7.8	122
35	Measurement of theB0â^'BÂ ⁻ 0Oscillation Frequency with Inclusive Dilepton Events. Physical Review Letters, 2002, 88, 221803.	7.8	22
36	Production and test of monitored drift tubes for the muon spectrometer of the ATLAS experiment. IEEE Transactions on Nuclear Science, 2002, 49, 1077-1079.	2.0	8

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37	A combined analysis technique for the search for fast magnetic monopoles with the MACRO detector. Astroparticle Physics, 2002, 18, 27-41.	4.3	9
38	The BABAR detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 479, 1-116.	1.6	1,216
39	The MACRO detector at Gran Sasso. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 486, 663-707.	1.6	60
40	Muon energy estimate through multiple scattering with the MACRO detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 492, 376-386.	1.6	18
41	Search for nucleon decays induced by GUT magnetic monopoles with the MACRO experiment. European Physical Journal C, 2002, 26, 163-172.	3.9	28
42	Final results of magnetic monopole searches with the MACRO experiment. European Physical Journal C, 2002, 25, 511-522.	3.9	158
43	Measurements of the Branching Fractions of Exclusive CharmlessBMeson Decays withÎ-′orï‰Mesons. Physical Review Letters, 2001, 87, 221802.	7.8	43
44	Neutrino Astronomy with the MACRO Detector. Astrophysical Journal, 2001, 546, 1038-1054.	4.5	65
45	Matter effects in upward-going muons and sterile neutrino oscillations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 517, 59-66.	4.1	151
46	The NOE scintillating fiber calorimeter prototype test results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 456, 259-271.	1.6	4
47	Wavelength-shifting fibers for calorimetric measurements in a long base line neutrino oscillation experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 457, 447-453.	1.6	2
48	A transition radiation detector interleaved with low-density targets for the NOE experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 459, 108-122.	1.6	2
49	Measurement of)/ḯ^Production in Continuume+eâ^'Annihilations nearâ^šs=10.6GeV. Physical Review Letters, 2001, 87, 162002.	7.8	57
50	Measurement of CP-Violating Asymmetries in BODecays to CPE igenstates. Physical Review Letters, 2001, 86, 2515-2522.	7.8	125
51	Measurement of theB→J/Ĩ^K*(892) Decay Amplitudes. Physical Review Letters, 2001, 87, 241801.	7.8	52
52	Measurement of theB0andB+Meson Lifetimes with Fully Reconstructed Hadronic Final States. Physical Review Letters, 2001, 87, 201803.	7.8	21
53	Measurement of the branching fractions forľ (2S)→e+eâ~'andľ (2S)→l¼+l¼â^'. Physical Review D, 2001, 65, . 	4.7	5
54	Measurement of the DecaysB→φKandB→φK*. Physical Review Letters, 2001, 87, 151801.	7.8	32

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55	Search for the DecayB0→γγ. Physical Review Letters, 2001, 87, 241803.	7.8	9
56	Low energy atmospheric muon neutrinos in MACRO. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 478, 5-13.	4.1	73
57	Search for lightly ionizing particles with the MACRO detector. Physical Review D, 2000, 62, .	4.7	17
58	High statistics measurement of the underground muon pair separation at Gran Sasso. Physical Review D, 1999, 60, .	4.7	21
59	Limits on dark matter WIMPs using upward-going muons in the MACRO detector. Physical Review D, 1999, 60, .	4.7	74
60	Measurement of the energy spectrum of underground muons at Gran Sasso with a transition radiation detector. Astroparticle Physics, 1999, 10, 11-20.	4.3	27
61	The NOE detector for a long baseline neutrino oscillation experiment. Nuclear Physics, Section B, Proceedings Supplements, 1999, 70, 223-226.	0.4	7
62	Relevance of the hadronic interaction model in the interpretation of multiple muon data as detected with the MACRO experiment. Nuclear Physics, Section B, Proceedings Supplements, 1999, 75, 265-268.	0.4	2
63	Study of ionization losses in He-based gas mixtures. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 423, 342-355.	1.6	1
64	The observation of up-going charged particles produced by high energy muons in underground detectors. Astroparticle Physics, 1998, 9, 105-117.	4.3	36
65	NOE: a long baseline neutrino detector. Nuclear Physics, Section B, Proceedings Supplements, 1998, 66, 428-431.	0.4	0
66	Real time supernova neutrino burst detection with MACRO. Astroparticle Physics, 1998, 8, 123-133.	4.3	17
67	The BaBaR drift chamber project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 409, 46-52.	1.6	5
68	The BaBar drift chamber. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 419, 310-314.	1.6	6
69	Measurement of the atmospheric neutrino-induced upgoing muon flux using MACRO. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 434, 451-457.	4.1	315
70	Observation of the shadowing of cosmic rays by the Moon using a deep underground detector. Physical Review D, 1998, 59, .	4.7	14
71	High energy cosmic ray physics with underground muons in MACRO. II. Primary spectra and composition. Physical Review D, 1997, 56, 1418-1436.	4.7	26
72	High energy cosmic ray physics with underground muons in MACRO. I. Analysis methods and experimental results. Physical Review D, 1997, 56, 1407-1417.	4.7	17

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73	Magnetic monopole search with the MACRO detector at Gran Sasso. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 406, 249-255.	4.1	27
74	Seasonal variations in the underground muon intensity as seen by MACRO. Astroparticle Physics, 1997, 7, 109-124.	4.3	107
75	High energy cosmic ray physics with the MACRO experiment at Gran Sasso. Nuclear Physics, Section B, Proceedings Supplements, 1997, 52, 172-175.	0.4	0
76	The performance of MACRO liquid scintillator in the search for magnetic monopoles with 10â^'3 < \hat{l}^2 < 1. Astroparticle Physics, 1997, 6, 113-128.	4.3	18
77	Atmospheric neutrino flux measurement using upgoing muons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 357, 481-486.	4.1	83
78	A new design scintillating fiber calorimeter to search for neutrino oscillations in massive underground detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 363, 604-610.	1.6	18
79	Performance of the MACRO streamer tube system in the search for magnetic monopoles. Astroparticle Physics, 1995, 4, 33-43.	4.3	26
80	Vertical muon intensity measured with MACRO at the Gran Sasso laboratory. Physical Review D, 1995, 52, 3793-3802.	4.7	149
81	Search for slowly moving magnetic monopoles with the MACRO detector. Physical Review Letters, 1994, 72, 608-612.	7.8	29
82	Coincident observation of air ÄŒerenkov light by a surface array and muon bundles by a deep underground detector. Physical Review D, 1994, 50, 3046-3058.	4.7	2
83	Study of the primary cosmic ray composition around the knee of the energy spectrum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 337, 376-382.	4.1	34
84	Study of D+ and Dâ^' Feynman's x distributions in Ï€â^'-nucleus interactions at the SPS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 305, 402-406.	4.1	72
85	Measurement of relative branching fractions for D+→Kâ^'K+K+ and Ds+→πâ^'Ï€+Ï€+ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 305, 177-181.	4.1	11
86	First supermodule of the MACRO detector at Gran Sasso. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 324, 337-362.	1.6	137
87	Muon astronomy with the MACRO detector. Astrophysical Journal, 1993, 412, 301.	4.5	28
88	Search for nuclearites using the MACRO detector. Physical Review Letters, 1992, 69, 1860-1863.	7.8	32
89	Study of the ultrahigh-energy primary-cosmic-ray composition with the MACRO experiment. Physical Review D, 1992, 46, 895-902.	4.7	37
90	Measurement of the decoherence function with the MACRO detector at Gran Sasso. Physical Review D, 1992, 46, 4836-4845.	4.7	29

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91	Arrival time distributions of very high energy cosmic ray muons in MACRO. Nuclear Physics B, 1992, 370, 432-444.	2.5	14
92	Results on charm hadroproduction from CERN experiment WA82. AIP Conference Proceedings, 1992, , .	0.4	0
93	Search for neutrino bursts from collapsing stars with the MACRO detector. Astroparticle Physics, 1992, 1, 11-25.	4.3	25
94	Use of a high-resolution, scintillating-fibre, tracking detector in recording Ï€â^'-nucleon interactions at â^šs â‰^ 26 GeV. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1992, 315, 67-73.	1.6	1
95	Hadroproduction of \$D ar{D}\$ Pairs in the Interaction of 350 GeV/ <i>c</i> π ⁻ Mesons with Nuclei. Progress of Theoretical Physics, 1992, 88, 621-621.	2.0	Ο
96	Improvements in the CR39 polymer for the macro experiment at the Gran Sasso Laboratory. International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements, 1991, 19, 641-646.	0.5	22
97	Application of a scintillating-fibre detector to the study of short-lived particles. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1991, 310, 485-489.	1.6	4
98	Study of penetrating cosmic ray muons and search for large scale anisotropies at the Gran Sasso Laboratory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 249, 149-156.	4.1	44
99	Comparison of glass and plastic scintillating microfibres for high-resolution tracking. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 295, 299-314.	1.6	13
100	WA84 experiment: A beauty search with a scintillating-fibre microvertex detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 289, 342-350.	1.6	13
101	Sources of noise in high-resolution tracking with scintillating fibres. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1990, 289, 356-364.	1.6	18
102	Rejuvenation of a data acquisition system for fixed target experiments in a large multiuser spectrometer at CERN. IEEE Transactions on Nuclear Science, 1990, 37, 266-270.	2.0	1
103	Simultaneous observation of extensive air showers and deep-underground muons at the Gran Sasso Laboratory. Physical Review D, 1990, 42, 1396-1403.	4.7	19
104	B inclusive cross section in 320 GeV Ï€â^'-uranium interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 231, 328-334.	4.1	11
105	An acquisition system based on a network of microVAX's running the real time DEC VAXELN operating system. IEEE Transactions on Nuclear Science, 1989, 36, 1602-1607.	2.0	6
106	High-resolution tracking with scintillating fibres. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 277, 132-137.	1.6	11
107	Decay time of light emission from cerium-doped scintillating glass. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 281, 50-54.	1.6	20
108	The macro detector at the Gran Sasso Laboratory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1988, 264, 18-23.	1.6	50

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109	Monopole trigger for the streamer tube system in macro. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1988, 263, 249-254.	1.6	5
110	The track-etch detector of the macro experiment. International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements, 1988, 15, 331-336.	0.5	4
111	Experimental study of B production π-U interactions at 320 GeV energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 202, 453-457.	4.1	15
112	A-dependence of the charm production cross section in 300 GeV/c proton interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 206, 546-550.	4.1	19
113	A-dependence of low-mass muon pair production in 300 GeV/c p and 320 GeV/cï€â^' interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 213, 395-399.	4.1	1
114	Hadron, electron and muon response of a uranium-scintillator calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 260, 43-54.	1.6	27
115	A muon spectrometer with calorimeter dump used for the beauty search at the CERN super proton synchrotron. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 253, 222-234.	1.6	9
116	A-dependence of the charm production cross section in interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 191, 456-461.	4.1	33
117	The production of beauty particles in Ï€â^'-U interactions at 320 GeV energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1987, 187, 431-436.	4.1	23
118	Performance of a sampling calorimeter with alternate U and Fe absorbers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1986, 248, 326-330.	1.6	5
119	Search for antimatter in cosmic radiation. A matter-antimatter space spectrometer. Il Nuovo Cimento A, 1986, 93, 311-324.	0.2	3
120	New results on WA71 TPC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1985, 235, 279-284.	1.6	1
121	New developments of the emulsion technique in hybrid experiments. International Journal of Radiation Applications and Instrumentation Part D, Nuclear Tracks and Radiation Measurements, 1984, 8, 71-74.	0.3	Ο
122	Curvative measurements in nuclear emulsions. Nuclear Instruments & Methods in Physics Research, 1981, 187, 387-391.	0.9	6
123	Investigation of the decay of charmed particles produced in neutrino interactions. Nuclear Physics B, 1980, 176, 13-36.	2.5	33
124	On the lifetime of charged charmed particles first direct observation of a charmed baryon decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1979, 84, 150-155.	4.1	31
125	First direct observation of the decay of neutral charmed particles produced by neutrinos in emulsion. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1979, 87, 287-291.	4.1	15
126	Observation of a second charmed particle produced by a high energy neutrino and decaying after a few times 10â^113s. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1979, 80, 428-432.	4.1	15

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127	Comparative study of inclusive correlation functions in proton interactions on emulsion nuclei. Nuclear Physics B, 1978, 135, 405-415.	2.5	6
128	Energy dependence of two-particle rapidity correlations in proton-nucleus interactions. Lettere Al Nuovo Cimento Rivista Internazionale Della Società Italiana Di Fisica, 1977, 18, 352-354.	0.4	7
129	Quality Control of Ionizing Radiation in Radiotherapy. , 0, , .		0