

Ettore Focardi

List of Publications by Year in descending order

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Version: 2024-02-01

460
papers

21,748
citations

10389
72
h-index

15266
126
g-index

467
all docs

467
docs citations

467
times ranked

10140
citing authors

#	ARTICLE	IF	CITATIONS
1	Search for neutral MSSM Higgs bosons at LEP. European Physical Journal C, 2006, 47, 547.	3.9	592
2	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 \sqrt{s} TeV. European Physical Journal C, 2015, 75, 212.	3.9	541
3	A measurement of the space-like pion electromagnetic form factor. Nuclear Physics B, 1986, 277, 168-196.	2.5	529
4	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	3.9	499
5	Observation of long-range, near-side angular correlations in proton-proton collisions at the LHC. Journal of High Energy Physics, 2010, 2010, 1.	4.7	497
6	The CDF detector: an overview. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1988, 271, 387-403.	1.6	488
7	Radiation hard silicon detectors—developments by the RD48 (ROSE) collaboration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 466, 308-326.	1.6	377
8	Study of high-p _T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{\mathrm{NN}}}=2.76\text{--}4.76\text{ TeV}$. European Physical Journal C, 2012, 72, 1.	3.9	369
9	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	3.9	342
10	Performance of the ALEPH detector at LEP. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 360, 481-506.	1.6	322
11	Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	320
12	Search for dark matter, extra dimensions, and unparticles in monojet events in proton–proton collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2015, 75, 235.	3.9	320
13	Branching ratios and spectral functions of \tilde{J} , decays: Final ALEPH measurements and physics implications. Physics Reports, 2005, 421, 191-284.	25.6	288
14	A measurement of the inclusive $b\bar{t}s\bar{l}^3$ branching ratio. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 429, 169-187.	4.1	259
15	Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. European Physical Journal C, 2014, 74, 3036.	3.9	241
16	Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s}=0.9$ and 2.36 TeV. Journal of High Energy Physics, 2010, 2010, 1.	4.7	230
17	A measurement of the kaon charge radius. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1986, 178, 435-440.	4.1	212
18	Suppression of non-prompt J/ψ , prompt J/ψ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	200

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19	Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4.	3.9	198
20	Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 542.	3.9	191
21	Pseudorapidity distributions of charged particles produced in \bar{p} -interactions at $\sqrt{s} = 630$ and 1800 GeV. Physical Review D, 1990, 41, 2330-2333.	4.7	187
22	Studies of Quantum Chromodynamics with the ALEPH detector. Physics Reports, 1998, 294, 1-165.	25.6	184
23	Transverse-momentum distributions of charged particles produced in \bar{p} -interactions at $\sqrt{s} = 630$ and 1800 GeV. Physical Review Letters, 1988, 61, 1819-1822.	7.8	182
24	Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. European Physical Journal C, 2012, 72, 1.	3.9	181

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#	ARTICLE	IF	CITATIONS
37	Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2013, 73, 1.	3.9	125
38	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
39	Measurements of inclusive W and Z cross sections in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	122
40	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	3.9	120
41	Study of the fragmentation of b quarks into B mesons at the Z peak. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 512, 30-48.	4.1	116
42	Limits on the masses of supersymmetric particles from 1.8-TeV pp collisions. Physical Review Letters, 1989, 62, 1825-1828.	7.8	110
43	Measurement of \hat{P} polarization from Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 374, 319-330.	4.1	106
44	Charged particle multiplicities in pp interactions at $\sqrt{s} = 0.9 \text{ TeV}$, 2.36, and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	106
45	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	103
46	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	101
47	Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	99
48	Measurement of the pion form factor in the time-like region for q^2 values between 0.1 (GeV/c)^2 and 0.18 (GeV/c)^2 . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 138, 454-458.	4.1	97
49	Measurement of the underlying event activity at the LHC with $\sqrt{s} = 7 \text{ TeV}$ and comparison with $\sqrt{s} = 0.9 \text{ TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	97
50	Search for supersymmetry in hadronic final states using M_{T2} in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	95
51	Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1.	4.7	92
52	Developments for radiation hard silicon detectors by defect engineering—results by the CERN RD48 (ROSE) Collaboration. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 465, 60-69.	1.6	88
53	Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 147.	3.9	88
54	Measurement of the mass and width of the Z boson at the Fermilab Tevatron. Physical Review Letters, 1989, 63, 720-723.	7.8	86

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55	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	86
56	Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	85
57	Search for charginos nearly mass degenerate with the lightest neutralino in e^+e^- collisions at centre-of-mass energies up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 533, 223-236.	4.1	84
58	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
59	Measurement of the differential cross section and charge asymmetry for inclusive $\mathrm{p} \rightarrow \mathrm{W}^{\pm} + X$ production at $\sqrt{s}=8$ TeV. European Physical Journal C, 2016, 76, 469.	3.9	83
60	Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at 5.02 TeV. European Physical Journal C, 2018, 78, 509.	3.9	83
61	Suppression and azimuthal anisotropy of prompt and nonprompt J/ψ production in PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76$ TeV. European Physical Journal C, 2017, 77, 252.	3.9	82
62	J/ψ and $\Upsilon(2S)$ production in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	81
63	Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	4.7	81
64	Search for a non-minimal Higgs boson produced in the reaction $\hat{t}\bar{t} \rightarrow W^{\pm} + X$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 313, 312-325.	4.1	78
65	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 75.	3.9	78
66	An upper limit for the \tilde{L} , neutrino mass from $\tilde{L}, \hat{t} \rightarrow 5\tilde{L}(\tilde{L} \rightarrow \tilde{L}, \tilde{L})$, decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 349, 585-596.	4.1	75
67	Final results of the searches for neutral Higgs bosons in e^+e^- collisions at s up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 526, 191-205.	4.1	75
68	Study of exclusive two-photon production of $W+W^{\pm}$ in pp collisions at $\sqrt{s}=7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	4.7	75
69	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. European Physical Journal C, 2014, 74, 1.	3.9	75
70	Measurement of the $X(3872)$ production cross section via decays to $J/\psi \Upsilon + \Upsilon \hat{t}\bar{t}$ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	73
71	Measurement of the Inclusive Jet Cross Section in $p\bar{p}$ Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1989, 62, 613-616.	7.8	72
72	Search for scalar leptons in e^+e^- collisions at centre-of-mass energies up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 526, 206-220.	4.1	72

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73	Improved measurements of electroweak parameters from Z decays into fermion pairs. Zeitschrift für Physik C-Particles and Fields, 1992, 53, 1-20.	1.5	70
74	Searches for physics beyond the standard model with the M_{T2} variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=13$, ext {TeV}. European Physical Journal C, 2020, 80, 3.	3.9	70
75	Measurement of the $\sigma(\text{t}\bar{\text{t}})$ production cross section in the dilepton channel in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	69
76	Search for anomalous production of multilepton events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	68
77	Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC. European Physical Journal C, 2013, 73, 2469.	3.9	68
78	Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	68
79	Measurement of the $\sigma(\text{t}\bar{\text{t}})$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at. European Physical Journal C, 2019, 79, 368.	3.9	68
80	Measurements of $ V_{cb} $, form factors and branching fractions in the decays and. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 395, 373-387.	4.1	66
81	Long-range and short-range dihadron angular correlations in central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	65
82	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s}=7$, ext {TeV} $s = 7$ TeV. European Physical Journal C, 2014, 74, 3129.	3.9	65
83	Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2283.	3.9	64
84	Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13$, ext {TeV} $s = 13$ TeV. European Physical Journal C, 2016, 76, 439.	3.9	64
85	Double-sided readout silicon strip detectors for the aleph minivertex. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1989, 277, 147-153.	1.6	63
86	Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	63
87	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s}=8$, ext {TeV} $s = 8$ TeV. European Physical Journal C, 2016, 76, 13.	3.9	62
88	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
89	Measurement of the branching ratio and an upper limit on. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 343, 444-452.	4.1	61
90	Search for charged Higgs bosons in e^+e^- collisions at energies up to \hat{A} GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 543, 1-13.	4.1	60

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109	Measurement of prompt and nonprompt J/ψ production in $p\bar{p}$ collisions at $\sqrt{s} = 5.02$, ext Deuteron and anti-deuteron production in CD collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2017, 77, 459.	3.9	53
110	Measurement of the $p\bar{p} \rightarrow Z\gamma$ production cross section and the $p\bar{p} \rightarrow Z\gamma^* \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	4.1	52
111	Fermion pair production in e^+e^- collisions at $189 \leq \sqrt{s} \leq 209$ GeV and constraints on physics beyond the standard model. European Physical Journal C, 2007, 49, 411-437.	3.9	52
112	Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s} = 8$ TeV and impact on parton distribution functions. European Physical Journal C, 2017, 77, 459.	3.9	52
113	Measurements of the $p\bar{p} \rightarrow Z\gamma$ production cross section and the $p\bar{p} \rightarrow Z\gamma^* \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	3.9	52
114	Search for supersymmetric particles in e^+e^- collisions at up to 202 GeV and mass limit for the lightest neutralino. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 499, 67-84.	4.1	51
115	Measurement of the triple gauge-boson couplings WWV and ZVV in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.1	51
116	Search for exclusive or semi-exclusive $\bar{t}t$ production and observation of exclusive and semi-exclusive e^+e^- production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	51
117	Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.	4.7	51
118	First measurement of the underlying event activity at the LHC with $\sqrt{s} = 0.9$ TeV. European Physical Journal C, 2010, 70, 555-572.	3.9	50
119	Search for new physics with jets and missing transverse momentum in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	49
120	Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	3.9	49
121	Absolute mass lower limit for the lightest neutralino of the MSSM from e^+e^- data at s up to 209 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 583, 247-263.	4.1	48
122	Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC. Journal of High Energy Physics, 2011, 2011, 1.	4.7	46
123	Measurement of the W boson mass and width in e^+e^- collisions at LEP. European Physical Journal C, 2006, 47, 309-335.	3.9	45
124	Search for heavy bottom-like quarks in 4.9 fb^{-1} of pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	45
125	An investigation of B_d^0 and B_s^0 oscillation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 322, 441-458.	4.1	43
126	Study of the CP asymmetry of $B^0 \rightarrow J/\psi K^0$ decays in ALEPH. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 492, 259-274.	4.1	43

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127	Search for neutral Higgs bosons decaying into four taus at LEP2. Journal of High Energy Physics, 2010, 2010, 1.	4.7	43
128	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	43
129	Two-jet invariant mass distribution at $\sqrt{s}=1.8\text{TeV}$. Physical Review D, 1990, 41, 1722-1725.	4.7	42
130	Measurement of the top-quark mass in $\overline{t}t$ events with dilepton final states in pp collisions at $\sqrt{s}=7\text{TeV}$. European Physical Journal C, 2012, 72, 1.	3.9	42
131	Measurement of the ℓb polarization in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 365, 437-447.	4.1	41
132	Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s}=7\text{TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	41
133	Measurement of the $t\bar{t}$ production cross section in the $e\bar{\nu}_\tau$ channel in proton-proton collisions at $\sqrt{s}=7\text{TeV}$ and 8TeV . Journal of High Energy Physics, 2016, 2016, 1.	4.7	41
134	Measurement of the $t\bar{t}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s}=8\text{TeV}$. European Physical Journal C, 2016, 76, 128.	3.9	41
135	Electronic measurement of the lifetime of D^{\pm} mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1982, 110, 339-343.	4.1	40
136	Measurement of the effective b quark fragmentation function at the Z resonance. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 357, 699-714.	4.1	40
137	Quark and gluon jet properties in symmetric three-jet events. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 384, 353-364.	4.1	40
138	Search for single top production in e^+e^- collisions at \sqrt{s} up to 209GeV . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 543, 173-182.	4.1	40
139	Search for same-sign top-quark pair production at $\sqrt{s}=7\text{TeV}$ and limits on flavour changing neutral currents in the top sector. Journal of High Energy Physics, 2011, 2011, 1.	4.7	40
140	Measurement of the $t\bar{t}$ production cross section using events in the $e\bar{\nu}_\tau$ final state in pp collisions at $\sqrt{s}=13\text{TeV}$. European Physical Journal C, 2017, 77, 172.	3.9	40
141	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s}=13\text{TeV}$. European Physical Journal C, 2021, 81, 378.	3.9	40
142	Resonant structure and flavour tagging in the $B\bar{B}^{\pm}$ system using fully reconstructed B decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 425, 215-226.	4.1	39
143	Search for resonances in the dilepton mass distribution in pp collisions at $\sqrt{s}=7\text{TeV}$. Journal of High Energy Physics, 2011, 2011, 1.	4.7	39
144	Measurement of the $Z/\gamma^* \rightarrow b\bar{b}$ cross section in pp collisions at $\sqrt{s}=7\text{TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	39

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145	Measurement of the ZZ production cross section and search for anomalous couplings in $2\gamma, 2\gamma, \gamma\gamma$ final states in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
146	Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 965.	3.9	39
147	Search for heavy stable charged particles in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	38
148	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 845.	3.9	38
149	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 636.	3.9	38
150	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying l , leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
151	The silicon sensors for the Compact Muon Solenoid tracker design and qualification procedure. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 517, 77-93.	1.6	37
152	Measurement of the τ production cross section in pp collisions at $\sqrt{s}=7$ TeV using the kinematic properties of events with leptons and jets. European Physical Journal C, 2011, 71, 1.	3.9	37
153	Single- and multi-photon production in e^+e^- collisions at a centre-of-mass energy of 183 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 429, 201-214.	4.1	36
154	Measurement of the Drell-Yan cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	36
155	Mass limit for the standard model Higgs boson with the full LEP I ALEPH data sample. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 384, 427-438.	4.1	35
156	A measurement of R_b using a lifetime-mass tag. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 401, 150-162.	4.1	35
157	Measurement of the top-quark mass in all-jets $t\bar{t}$ events in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 2758.	3.9	35
158	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 488.	3.9	35
159	Production of charmed mesons in Z decays. Zeitschrift für Physik C-Particles and Fields, 1994, 62, 1-14.	1.5	34
160	Search for the glueball candidates $f_0(1500)$ and $f_1(1710)$ in $\bar{p}p$ collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 472, 189-199.	4.1	34
161	Search for $\bar{p}p \rightarrow \bar{p}b$ in e^+e^- collisions at LEP2. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 530, 56-66.	4.1	34
162	Observation of Z decays to four leptons with the CMS detector at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	4.7	34

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163	Measurements of the $\sigma(\text{t}\bar{\text{t}})$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections. European Physical Journal C, 2017, 77, 15.	3.9	34
164	First measurement of the BS meson mass. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 311, 425-436.	4.1	33
165	Absolute lower limits on the masses of selectrons and sneutrinos in the MSSM. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 544, 73-88.	4.1	33
166	Recent advancements in the development of radiation hard semiconductor detectors for S-LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 552, 7-19.	1.6	33
167	Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	33
168	Measurement of exclusive ρ^0 photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 702.	3.9	33
169	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 13.	3.9	33
170	Search for top squark pair production using dilepton final states in pp collision data collected at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 3.	3.9	33
171	Measurement of $t\bar{t}$ normalised multi-differential cross sections in pp collisions at $\sqrt{s} = 13$ TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions. European Physical Journal C, 2020, 80, 1.	3.9	33
172	The Γ_{\pm} radiative decay width: A measurement at 200 GeV. Nuclear Physics B, 1987, 288, 659-680.	2.5	32
173	Z production cross sections and lepton pair forward-backward asymmetries. Zeitschrift für Physik C-Particles and Fields, 1994, 62, 539-550.	1.5	32
174	The design, construction and performance of the ALEPH silicon vertex detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 379, 101-115.	1.6	32
175	Study of the B_s^0 oscillation frequency using D_s^{\pm} combinations in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 377, 205-221.	4.1	32
176	Measurement of $\overline{B}B$ angular correlations based on secondary vertex reconstruction at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	32
177	Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum. Journal of High Energy Physics, 2011, 2011, 1.	4.7	32
178	Jet and underlying event properties as a function of charged-particle multiplicity in proton-proton collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2674.	3.9	32
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186	Strange b baryon production and lifetime in Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 384, 449-460.	4.1	30
187	A measurement of R_b using mutually exclusive tags. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 401, 163-175.	4.1	30
188	Study of muon-pair production at centre-of-mass energies from 20 to 136 GeV with the ALEPH detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 399, 329-341.	4.1	30
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191	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s} = 7\text{ TeV}$. Journal of High Energy Physics, 2012, 2012, 1.	4.7	30
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200	Measurement of the W mass in e^+e^- collisions at production threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 401, 347-362.	4.1	28
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243	A measurement of the gluon splitting rate into pairs in hadronic Z decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 434, 437-450.	4.1	22
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257	Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV in events with a single lepton, jets, and missing transverse momentum. European Physical Journal C, 2013, 73, 2404.	3.9	20
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279	Probing color coherence effects in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2901.	3.9	17
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297	Measurement of the W mass by direct reconstruction in $e+e^-$ collisions at 172 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 422, 384-398.	4.1	15
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300	Measurement of W-pair production in $e+e^-$ collisions at 183 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 453, 107-120.	4.1	15
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303	Search for a scalar top almost degenerate with the lightest neutralino in $e+e^-$ collisions at up to 202 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 488, 234-246.	4.1	15
304	Exclusive production of pion and kaon meson pairs in two photon collisions at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 569, 140-150.	4.1	15
305	Search for a fermiophobic Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	15
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326	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	13
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328	Measurement of QCD jet broadening in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review D, 1991, 44, 601-616.	4.7	12
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330	Measurement of the branching fraction for $D^0 \rightarrow K^+ \pi^-$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 403, 367-376.	4.1	12
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332	Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
333	Search for dark matter produced in association with a Higgs boson decaying to $\tau^+\tau^-$ or $\tau, \bar{\tau}, \nu\bar{\nu}$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
334	Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	12
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