

Paolo Bartalini

List of Publications by Year in descending order

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108
papers

14,296
citations

31902

53
h-index

30010

103
g-index

108
all docs

108
docs citations

108
times ranked

9448
citing authors

#	ARTICLE	IF	CITATIONS
1	The CMS experiment at the CERN LHC. Journal of Instrumentation, 2008, 3, S08004-S08004.	0.5	2,192
2	Observation of Top Quark Production in $p\bar{p}$ Collisions with the Collider Detector at Fermilab. Physical Review Letters, 1995, 74, 2626-2631.	2.9	1,240
3	Precision electroweak measurements on the Z resonance. Physics Reports, 2006, 427, 257-454.	10.3	974
4	The LHCb Detector at the LHC. Journal of Instrumentation, 2008, 3, S08005-S08005.	0.5	969
5	CMS Physics Technical Design Report, Volume II: Physics Performance. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 995-1579.	1.4	683
6	Determination of jet energy calibration and transverse momentum resolution in CMS. Journal of Instrumentation, 2011, 6, P11002-P11002.	0.5	508
7	Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV. Journal of Instrumentation, 2012, 7, P10002-P10002.	0.5	467
8	Identification of b-quark jets with the CMS experiment. Journal of Instrumentation, 2013, 8, P04013-P04013.	0.5	418
9	Evidence for top quark production in $p\bar{p}$ collisions at $\sqrt{s} = 1.8$ TeV. Physical Review D, 1994, 50, 2966-3026.	1.6	400
10	Enhanced production of multi-strange hadrons in high-multiplicity proton-proton collisions. Nature Physics, 2017, 13, 535-539.	6.5	399
11	Description and performance of track and primary-vertex reconstruction with the CMS tracker. Journal of Instrumentation, 2014, 9, P10009-P10009.	0.5	380
12	A standard format for Les Houches Event Files. Computer Physics Communications, 2007, 176, 300-304.	3.0	295
13	Measurement of the $B \rightarrow D^* \ell \bar{\nu}_\ell$ branching fraction and search for $B \rightarrow D^* \tau \bar{\nu}_\tau$. Physical Review Letters, 2012, 109, 222301.	2.9	282
14	Observation of Sequential Suppression in PbPb Collisions. Physical Review Letters, 2012, 109, 222301.	2.9	220
15	Centrality Dependence of the Charged-Particle Multiplicity Density at Midrapidity in Pb-Pb Collisions. Physical Review Letters, 2016, 116, 222302.	2.9	182
16	Anisotropic Flow of Charged Particles in Pb-Pb Collisions at Midrapidity. Physical Review Letters, 2016, 116, 132302.	2.9	148
17	Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 7$ TeV. Journal of Instrumentation, 2013, 8, P09009-P09009.	0.5	140
18	Correlated Event-by-Event Fluctuations of Flow Harmonics in Pb-Pb Collisions at Midrapidity. Physical Review Letters, 2016, 117, 182301.	2.9	138

#	ARTICLE	IF	CITATIONS
19	CMS Physics Technical Design Report: Addendum on High Density QCD with Heavy Ions. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 2307-2455.	1.4	136
20	Search for Dijet Resonances in 7 TeV Collisions at CMS. Physical Review Letters, 2010, 105, 211801.	2.9	126
21	Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing Transverse Energy. Physical Review Letters, 2012, 108, 261803.	2.9	126
22	Measurement of the Inclusive Jet Cross Section in pp Collisions at $\sqrt{s}=7\text{ TeV}$. Physical Review Letters, 2011, 107, 132001.	2.9	125
23	Measurement of the B Meson Differential Cross Section $d\Gamma/dp_T$ in pp Collisions at $\sqrt{s}=1.8\text{ TeV}$. Physical Review Letters, 1995, 75, 1451-1455.	2.9	123
24	CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192.	1.4	120
25	Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at $\sqrt{s}=7\text{ TeV}$. Physical Review Letters, 2011, 106, 211801.	2.9	118
26	Observation of the Associated Production of a Single Top Quark and a W Boson in pp Collisions at $\sqrt{s}=7\text{ TeV}$. Physical Review Letters, 2011, 106, 211801.	2.9	108
27	Precision Measurement of the Prompt Photon Cross Section in pp Collisions at $\sqrt{s}=1.8\text{ TeV}$. Physical Review Letters, 1994, 73, 2662-2666.	2.9	107
28	Missing transverse energy performance of the CMS detector. Journal of Instrumentation, 2011, 6, P09001-P09001.	0.5	102
29	LHC forward physics. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 110201.	1.4	99
30	Measurement of Inclusive Z Boson Production Cross Sections in pp Collisions at $\sqrt{s}=7\text{ TeV}$. Physical Review Letters, 2011, 106, 211801.	2.9	94
31	Performance of τ, q -lepton reconstruction and identification in CMS. Journal of Instrumentation, 2012, 7, P01001-P01001.	0.5	91
32	Searches for new physics using θ_{eff} invariant mass distribution in pp collisions at $\sqrt{s}=8\text{ TeV}$. Physical Review Letters, 2013, 111, 211804.	2.9	90
33	A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. Science, 2012, 338, 1569-1575.	6.0	85
34	Evidence of b-Jet Quenching in PbPb Collisions at $\sqrt{s_{NN}}=2.76\text{ TeV}$. Physical Review Letters, 2014, 113, 132301.	2.9	85
35	τ Production in pp Collisions at $\sqrt{s}=1.8\text{ TeV}$. Physical Review Letters, 1995, 75, 4358-4363.	2.9	82
36	Study of Z Boson Production in PbPb Collisions at $\sqrt{s_{NN}}=2.76\text{ TeV}$. Physical Review Letters, 2011, 106, 212301.	2.9	80

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37	Measurement of an Excess in the Yield of $\mu^+\mu^-$ Pairs in $Pb-Pb$ Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 112, 171801.	2.9	80
38	Search for Top-Quark Partners with Charge $\pm 2/3$ in $Pb-Pb$ Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 112, 171801.	2.9	77
39	Search for Top-Quark Partners with Charge $\pm 2/3$ in $Pb-Pb$ Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 112, 171801.	2.9	76
40	Observation of Rapidity Gaps in $p-p$ Collisions at 1.8 TeV. Physical Review Letters, 1995, 74, 855-859.	2.9	71
41	Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in $Pb-Pb$ Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 112, 171801.	2.9	65
42	Observation of a New $\Lambda(1520)$ Baryon. Physical Review Letters, 2012, 108, 252002.	2.9	65
43	Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider. Physical Review Letters, 2012, 108, 111801.	2.9	63
44	Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in $Pb-Pb$ Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2012, 109, 152303.	2.9	62
45	Charge Asymmetry in W -Boson Decays Produced in $p-p$ Collisions at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 1995, 74, 850-854.	2.9	61
46	Measurement of the $B \rightarrow D^* \mu^+ \mu^-$ Production Cross Section in $p-p$ Collisions at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 1995, 74, 850-854.	2.9	61
47	Search for New Particles Decaying to Dijets in $p-p$ Collisions at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 1995, 74, 3538-3543.	2.9	59
48	Alignment of the CMS silicon tracker during commissioning with cosmic rays. Journal of Instrumentation, 2010, 5, T03009-T03009.	0.5	59
49	Search for a Vectorlike Quark with Charge $\pm 2/3$ in $p-p$ Collisions at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 2011, 106, 201804.	2.9	59
50	Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter. Journal of Instrumentation, 2010, 5, T03014-T03014.	0.5	57
51	Measurement of Dijet Angular Distributions and Search for Quark Compositeness in $p-p$ Collisions at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 2011, 106, 201804.	2.9	54
52	Evidence for color coherence in $p-p$ collisions at $\sqrt{s} = 1.8$ TeV. Physical Review D, 1994, 50, 5562-5579.	1.6	53
53	Search for Heavy Neutrinos and W Bosons with Right-Handed Couplings in a Left-Right Symmetric Model in $p-p$ Collisions at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 2011, 106, 201804.	2.9	53
54	Search for Heavy Neutrinos and W Bosons with Right-Handed Couplings in a Left-Right Symmetric Model in $p-p$ Collisions at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 2011, 106, 201804.	2.9	53

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55	Performance of CMS muon reconstruction in cosmic-ray events. Journal of Instrumentation, 2010, 5, T03022-T03022.	0.5	52
56	First measurement of the underlying event activity at the LHC with $\sqrt{s} = 0.9$ TeV. European Physical Journal C, 2010, 70, 555-572.	1.4	50
57	Search for Supersymmetry in pp Collisions at $\sqrt{s} = 7$ TeV in Events with Two Photons and Missing Transverse Energy. Physical Review Letters, 2011, 106, 211802.	2.9	47
58	Measurement of the ratio $\sigma(\text{pp} \rightarrow \text{W} \tau^+ e \tau^-) / \sigma(\text{pp} \rightarrow \text{Z} \tau^+ e \tau^-)$ in pp collisions at $\sqrt{s} = 1800$ GeV. Physical Review D, 1995, 52, 2624-2655.	1.6	46
59	Search for Charged Bosons Heavier than the W Boson in pp Collisions at $\sqrt{s} = 1800$ GeV. Physical Review Letters, 1995, 74, 2900-2904.	2.9	45
60	Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2014, 112, 161802.	2.9	45
61	Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802.	2.9	45
62	Elliptic Flow in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 211802.	2.9	45
63	Measurement of the cross section for the production of a top quark and a photon in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review Letters, 2011, 106, 211802.	2.9	43
64	Measurement of correlated $\frac{1}{4}$ -b jet cross sections in pp collisions at $\sqrt{s} = 1.8$ TeV. Physical Review D, 1996, 53, 1051-1065.	1.6	42
65	Measurement of the mass and the width of the W boson at LEP. European Physical Journal C, 2006, 45, 569-587.	1.4	41
66	Precision measurement of the mass difference between light nuclei and anti-nuclei. Nature Physics, 2015, 11, 811-814.	6.5	41
67	Commissioning of the CMS experiment and the cosmic run at four tesla. Journal of Instrumentation, 2010, 5, T03001-T03001.	0.5	37
68	Limits on Z-Photon Couplings from p-p Interactions at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 1995, 74, 1941-1945.	2.9	36
69	Precise mapping of the magnetic field in the CMS barrel yoke using cosmic rays. Journal of Instrumentation, 2010, 5, T03021-T03021.	0.5	36
70	Alignment of the CMS tracker with LHC and cosmic ray data. Journal of Instrumentation, 2014, 9, P06009-P06009.	0.5	32
71	Centrality dependence of charged jet production in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2016, 76, 271.	1.4	31
72	Search for excited quarks in pp collisions at $\sqrt{s} = 1.8$ TeV. Physical Review Letters, 1994, 72, 3004-3008.	2.9	30

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73	Kinematic evidence for top quark pair production in W +multijet events in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review D, 1995, 51, 4623-4637.	1.6	30
74	Measurement of the shadowing of high-energy cosmic rays by the Moon: A search for TeV-energy antiprotons. Astroparticle Physics, 2005, 23, 411-434.	1.9	28
75	Measurement of the B^+ and B^0 meson lifetimes. Physical Review Letters, 1994, 72, 3456-3460.	2.9	25
76	Properties of High-Mass Multijet Events at the Fermilab Proton-Antiproton Collider. Physical Review Letters, 1995, 75, 608-612.	2.9	25
77	Direct Measurement of the W Boson Width. Physical Review Letters, 1995, 74, 341-345.	2.9	24
78	Reconstruction of $B^0 \rightarrow \pi^+ \pi^- K^0$ and Measurement of Ratios of Branching Ratios Involving $B^0 \rightarrow \pi^+ \pi^- K^*$ and $B^+ \rightarrow \pi^+ \pi^- K^+$. Physical Review Letters, 1996, 76, 2015-2020.	2.9	24
79	Performance of the CMS drift tube chambers with cosmic rays. Journal of Instrumentation, 2010, 5, T03015-T03015.	0.5	24
80	Identification of top quarks using kinematic variables. Physical Review D, 1995, 52, R2605-R2609.	1.6	23
81	Measurement of the Polarization in the Decays $B^0 \rightarrow \pi^+ \pi^- K^0$ and $B^+ \rightarrow \pi^+ \pi^- \bar{K}^0$. Physical Review Letters, 1995, 75, 3068-3072.	2.9	23
82	Alignment of the CMS muon system with cosmic-ray and beam-halo muons. Journal of Instrumentation, 2010, 5, T03020-T03020.	0.5	23
83	Search for Second Generation Leptoquarks in $p\bar{p}$ Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1995, 75, 1012-1016.	2.9	22
84	Performance of CMS hadron calorimeter timing and synchronization using test beam, cosmic ray, and LHC beam data. Journal of Instrumentation, 2010, 5, T03013-T03013.	0.5	20
85	Measurement of the B_s Meson Lifetime. Physical Review Letters, 1995, 74, 4988-4992.	2.9	19
86	Study of $t\bar{t}$ Production in $p\bar{p}$ Collisions Using Total Transverse Energy. Physical Review Letters, 1995, 75, 3997-4002.	2.9	19
87	Aligning the CMS muon chambers with the muon alignment system during an extended cosmic ray run. Journal of Instrumentation, 2010, 5, T03019-T03019.	0.5	19
88	Fine synchronization of the CMS muon drift-tube local trigger using cosmic rays. Journal of Instrumentation, 2010, 5, T03004-T03004.	0.5	18
89	Search for the top quark decaying to a charged Higgs boson in $p\bar{p}$ collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1994, 72, 1977-1981.	2.9	17
90	Search for the Top Quark Decaying to a Charged Higgs Boson in $p\bar{p}$ Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1994, 73, 2667-2671.	2.9	16

#	ARTICLE	IF	CITATIONS
91	Study of the Dijet Mass Spectrum in pp collisions with W+jets events at $\sqrt{s}=7$ TeV. Physical Review Letters, 2012, 109, 251801.	2.9	15
92	Anomalous Evolution of the Near-Side Jet Peak Shape in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2017, 119, 102301.	2.9	13
93	Azimuthally Differential Pion Femtoscopy in Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2017, 118, 222301.	2.9	12
94	Search for Squarks and Gluinos via Radiative Decays of Neutralinos in Proton-Antiproton Collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1995, 75, 613-617.	2.9	9
95	Measurement of the mass of the B_s meson. Physical Review D, 1996, 53, 3496-3505.	1.6	9
96	Flow Dominance and Factorization of Transverse Momentum Correlations in Pb-Pb Collisions at the LHC. Physical Review Letters, 2017, 118, 162302.	2.9	8
97	Search for the Rare Decay $W \rightarrow \tau \nu$. Physical Review Letters, 1996, 76, 2852-2857.	2.9	6
98	Study of inclusive strange-baryon production and search for pentaquarks in two-photon collisions at LEP. European Physical Journal C, 2007, 49, 395-410.	1.4	6
99	W Boson + Jet Angular Distribution in pp collisions at $\sqrt{s}=1.8$ TeV. Physical Review Letters, 1994, 73, 2296-2300.	2.9	5
100	Jet pseudorapidity distribution in direct photon events in pp collisions at $\sqrt{s}=1.8$ TeV. Physical Review D, 1998, 57, 1359-1365.	1.6	3
101	Tracking with heavily irradiated silicon detectors operated at cryogenic temperatures. IEEE Transactions on Nuclear Science, 1999, 46, 228-231.	1.2	3
102	A search for flaring very-high-energy cosmic γ -ray sources with the L3+C muon spectrometer. Astroparticle Physics, 2006, 25, 298-310.	1.9	3
103	MULTI-PARTICLE PRODUCTION OF HADRONS. Modern Physics Letters A, 2013, 28, 1330010.	0.5	1
104	Test results on heavily irradiated silicon detectors for the CMS experiment at LHC. IEEE Transactions on Nuclear Science, 2000, 47, 2092-2100.	1.2	0
105	LCG Generator Services. Nuclear Physics, Section B, Proceedings Supplements, 2006, 156, 257-260.	0.5	0
106	The CMS Collaboration. Nuclear Physics A, 2009, 830, 946c-956c.	0.6	0
107	Title is missing!. Acta Physica Polonica B, 2011, 42, 2657.	0.3	0
108	Investigation of the underlying event in pp collisions at the LHC with CMS. , 2012, , .		0