

# Valentina Sola

## List of Publications by Year in descending order

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Version: 2024-02-01

191  
papers

10,010  
citations

34105

52  
h-index

39675

94  
g-index

194  
all docs

194  
docs citations

194  
times ranked

8215  
citing authors



#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	Beam test results of a 16 ps timing system based on ultra-fast silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 850, 83-88.	1.6	120
23	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
24	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
25	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
26	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
27	Searches for new physics using the invariant mass distribution in pp collisions at $\sqrt{s} = 8 \text{ TeV}$ . Physical Review Letters, 2013, 111, 211804.	7.8	90
28	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	86
29	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ . European Physical Journal C, 2014, 74, 2847.	3.9	85
30	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
31	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2020, 80, 75.	3.9	78
32	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ TeV}$ . Journal of High Energy Physics, 2014, 2014, 1.	4.7	77
33	Search for Top-Quark Partners with Charge in the Same-Sign Dilepton Final State. Physical Review Letters, 2014, 112, 171801.	7.8	76
34	Study of exclusive two-photon production of $W+W^*$ in pp collisions at $\sqrt{s} = 7 \text{ TeV}$ and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	4.7	75
35	Studies of dijet transverse momentum balance and pseudorapidity distributions in pPb collisions at $\sqrt{s_{NN}} = 5.02 \text{ TeV}$ . European Physical Journal C, 2014, 74, 1.	3.9	75
36	Radiation resistant LGAD design. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 919, 16-26.	1.6	75

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37	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} $s = 13$ TeV. European Physical Journal C, 2020, 80, 3.	3.9	70
38	Measurement of the $\overline{\sigma}(\text{t} \text{t} \hat{A}^-)$ 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
39	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
40	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
41	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
42	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
43	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
44	Tracking in 4 dimensions. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 47-51.	1.6	60
45	Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. European Physical Journal C, 2015, 75, 237.	3.9	58
46	Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	57
47	Charged particle transverse momentum spectra in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	56
48	Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 13$ , ext {TeV} $s = 13$ TeV. European Physical Journal C, 2016, 76, 451.	3.9	55
49	Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s} = 7$ , ext {TeV} $s = 7$ TeV. European Physical Journal C, 2015, 75, 288.	3.9	54
50	Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $s = 8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	54
51	Measurement of the $\sigma(\text{t} \bar{\text{t}})$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	53
52	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
53	Measurements of the $\sigma(\text{p} \rightarrow \text{Z} \text{p} \hat{A}^+ \text{Z})$ production cross section and the $\sigma(\text{Z} \rightarrow 4 \ell)$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	3.9	52
54	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

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55	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
56	Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	48
57	Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802.	7.8	45
58	Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3060.	3.9	43
59	Identification techniques for highly boosted W bosons that decay into hadrons. Journal of High Energy Physics, 2014, 2014, 1.	4.7	43
60	Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 325.	3.9	43
61	Measurement of the $t\bar{t}$ production cross section in the $e\bar{\nu}_e$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	41
62	Measurement of the $t\bar{t}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 128.	3.9	41
63	The 4D pixel challenge. Journal of Instrumentation, 2016, 11, C12016-C12016.	1.2	40
64	Measurement of the $t\bar{t}$ production cross section using events in the $e\bar{\nu}_e$ final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 172.	3.9	40
65	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 378.	3.9	40
66	Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
67	Measurement of the ZZ production cross section and search for anomalous couplings in $2\gamma, \gamma\gamma, \gamma Z$ final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	39
68	Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	39
69	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
70	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
71	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $l, \bar{l}$ leptons at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
72	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

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73	Measurement of the top-quark mass in all-jets $\sigma(\text{pp} \rightarrow t\bar{t} + \text{jets})$ events in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2758.	3.9	35
74	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
75	Measurement of $\sigma(\text{pp} \rightarrow t\bar{t} + \text{jets})$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 379.	3.9	34
76	Measurements of the $\sigma(\text{pp} \rightarrow t\bar{t} + \text{jets})$ 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
77	First FBK production of $50 \times 50 \mu\text{m}^2$ ultra-fast silicon detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 924, 360-368.	1.6	33
78	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
79	Search for top squark pair production using dilepton final states in collision data collected at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 3.	3.9	33
80	Measurement of normalised multi-differential cross sections in $\text{pp} \rightarrow \text{pp} + \text{jets}$ 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
81	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
82	Measurements of the $\sigma(\text{pp} \rightarrow Z Z)$ production cross sections in the $2\ell 2\ell$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. European Physical Journal C, 2015, 75, 511.	3.9	32
83	Searches for pair production of third-generation squarks in $\sqrt{s} = 13$ TeV pp collisions. European Physical Journal C, 2017, 77, 327.	3.9	32
84	Properties of HPK UFSD after neutron irradiation up to $6 \times 10^{15}$ n/cm <sup>2</sup> . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 940, 19-29.	1.6	32
85	Shape, transverse size, and charged-hadron multiplicity of jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	31
86	Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 66.	3.9	31
87	Search for top squark pair production in pp collisions at $\sqrt{s} = 13$ TeV using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
88	Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	30
89	Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2016, 76, 372.	3.9	29
90	A search for new phenomena in pp collisions at $\sqrt{s} = 13$ TeV in final states with missing transverse momentum and at least one jet using the $\alpha_T$ variable. European Physical Journal C, 2017, 77, 294.	3.9	29

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91	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	29
92	Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 280.	3.9	29
93	Search for $\overline{t}tH$ production in the $H \rightarrow b\overline{b}$ decay channel with leptonic $\overline{t}t$ decays in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
94	Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
95	Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 291.	3.9	27
96	Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P02027-P02027.	1.2	27
97	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
98	Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	25
99	Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	25
100	The CMS Phase-1 pixel detector upgrade. Journal of Instrumentation, 2021, 16, P02027-P02027.	1.2	25
101	Measurements of $pp \rightarrow ZZ$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	3.9	24
102	Measurement of WZ and ZZ production in pp collisions at $\sqrt{s} = 8$ TeV in final states with b-tagged jets. European Physical Journal C, 2014, 74, 2973.	3.9	23
103	Measurement of the jet mass in highly boosted $\overline{t}t$ events from pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 467.	3.9	23
104	Search for physics beyond the standard model in events with $\tilde{t}$ , leptons, jets, and large transverse momentum imbalance in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2493.	3.9	22
105	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
106	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 370.	3.9	22
107	Developments and first measurements of Ultra-Fast Silicon Detectors produced at FBK. Journal of Instrumentation, 2017, 12, C02077-C02077.	1.2	21
108	A Deep Neural Network for Simultaneous Estimation of b Jet Energy and Resolution. Computing and Software for Big Science, 2020, 4, 10.	2.9	21

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109	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	21
110	Development of low-energy X-ray detectors using LGAD sensors. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 1226-1237.	2.4	21
111	Measurements of the $\overline{\text{charge asymmetry}}$ using the dilepton decay channel in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2014, 2014, 1.	4.7	20
112	Search for $\overline{\text{H}}$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	20
113	Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	20
114	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	20
115	Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $s = 7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	19
116	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $\tilde{l}, \text{leptons}$ in pp collisions at $s = 8$ TeV. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	4.7	19
117	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13, \text{TeV}$ . <i>European Physical Journal C</i> , 2021, 81, 723.	3.9	19
118	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	18
119	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13, \text{TeV}$ . <i>European Physical Journal C</i> , 2021, 81, 629.	3.9	18
120	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13, \text{TeV}$ . <i>European Physical Journal C</i> , 2021, 81, 970.	3.9	18
121	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s}=13, \text{TeV}$ . <i>European Physical Journal C</i> , 2022, 82, 290.	3.9	18
122	Measurement of the $\Lambda_b^0$ lifetime in pp collisions at $\sqrt{s}=7$ TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	17
123	Probing color coherence effects in pp collisions at $\sqrt{s}=7, \text{TeV}$ . <i>European Physical Journal C</i> , 2014, 74, 2901.	3.9	17
124	Measurement of the ratio of the production cross sections times branching fractions of $B_c^{\pm}$ and $B_s^{\pm}$ into $\tilde{l} \tilde{l}^*$ and $\tilde{l} \tilde{l}^* \tilde{l} \tilde{l}^*$ in pp collisions at $\sqrt{s}=13, \text{TeV}$ . <i>Journal of High Energy Physics</i> , 2015, 1.	4.7	17
125	Innovative thin silicon detectors for monitoring of therapeutic proton beams: preliminary beam tests. <i>Journal of Instrumentation</i> , 2017, 12, C12056-C12056.	1.2	17
126	Search for $Z^{\prime 3}$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	17



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127	Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2018, 78, 697.	3.9	17
128	Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	17
129	Analysis and numerical design of Resistive AC-Coupled Silicon Detectors (RSD) for 4D particle tracking. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 959, 163479.	1.6	17
130	Measurement of the $\overline{\text{t}}\text{t}$ production cross section in the all-jet final state in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	16
131	Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	16
132	Measurement of jet multiplicity distributions in $\overline{\text{t}}\text{t}$ production in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 3014.	3.9	16
133	Ultra-Fast Silicon Detectors for 4D tracking. Journal of Instrumentation, 2017, 12, C02072-C02072.	1.2	15
134	Measurement of the $\overline{\text{t}}\text{t}$ production cross section using events with one lepton and at least one jet in pp collisions at $s=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
135	Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	14
136	Studies of uniformity of 50 $\mu$ m low-gain avalanche detectors at the Fermilab test beam. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 895, 158-172.	1.6	14
137	Measurements of the pp $\rightarrow$ WZ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	14
138	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in $\text{PbPb}$ collisions at $\sqrt{s_{\text{NN}}}=2.76$ and 5.02 TeV. European Physical Journal C, 2020, 80, 534.	3.9	14
139	Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
140	Novel strategies for fine-segmented Low Gain Avalanche Diodes. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 987, 164840.	1.6	14
141	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2022, 82, 153.	3.9	14
142	Production of the excited charm mesons and at HERA. Nuclear Physics B, 2013, 866, 229-254.	2.5	13
143	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $s=8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
144	Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13

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145	Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
146	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
147	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
148	Search for dark matter produced in association with a Higgs boson decaying to $\hat{t}\hat{t}^*$ or $\tilde{l}, +\tilde{l}, \hat{a}'$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
149	Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	12
150	Development and validation of HERWIG <sup>7</sup> tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	3.9	12
151	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	12
152	Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
153	Measurement of the $\sigma(\text{Z}/\gamma^* \rightarrow \text{e}^+\text{e}^-) / \sigma(\text{Z}/\gamma^* \rightarrow \mu^+\mu^-)$ cross section in pp collisions at $\sqrt{s} = 13$ TeV and validation of $\sigma(\text{Z}/\gamma^* \rightarrow \text{e}^+\text{e}^-)$ . European Physical Journal C, 2018, 78, 708.	3.9	10
154	Search for a heavy resonance decaying into a Z boson and a vector boson in the $\text{u}\overline{\text{u}}\text{q}\overline{\text{q}}$ final state. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
155	Search for a heavy vector resonance decaying to a $\text{Z}\gamma$ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 688.	3.9	9
156	Measurement of $D^*\hat{A}_{\pm}$ production in deep inelastic scattering at HERA. Journal of High Energy Physics, 2013, 2013, 1.	4.7	8
157	Measurement of $D^*\hat{A}_{\pm}$ production in deep inelastic ep scattering with the ZEUS detector at HERA. Journal of High Energy Physics, 2013, 2013, 1.	4.7	8
158	Trapping in proton irradiated p+n+n+silicon sensors at fluences anticipated at the HL-LHC outer tracker. Journal of Instrumentation, 2016, 11, P04023-P04023.	1.2	8
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