

# Yasser Mohammed

## List of Publications by Year in descending order

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Version: 2024-02-01

192  
papers

6,199  
citations

71102

41  
h-index

88630

70  
g-index

194  
all docs

194  
docs citations

194  
times ranked

7572  
citing authors

#	ARTICLE	IF	CITATIONS
1	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	3.9	499
2	Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV. Journal of Instrumentation, 2017, 12, P02014-P02014.	1.2	216
3	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
4	Observation of the antimatter helium-4 nucleus. Nature, 2011, 473, 353-356.	27.8	154
5	Inclusive charged hadron elliptic flow in Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 022301.	2.9	127
6	Elliptic flow of identified hadrons in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2013, 88, .	2.9	124
7	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
8	Observation of Charge-Dependent Azimuthal Correlations in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV and Its Implication for the Search for the Chiral Magnetic Effect. Physical Review Letters, 2017, 118, 122301.	4.7	106
9	Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	103
10	Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	101
11	Measurements of the top quark pair production in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 116, 022001.	4.7	97
12	Strangeness Enhancement in Cu-Cu and Au-Au Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2012, 108, 072301.	7.8	91
13	Fluctuations of charge separation perpendicular to the event plane and local parity violation in Au-Au collisions at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2013, 88, .	7.8	89
14	Observation of an Energy-Dependent Difference in Elliptic Flow between Particles and Antiparticles in Relativistic Heavy Ion Collisions. Physical Review Letters, 2013, 110, 142301.	4.1	87
15	Observation of Electroweak Production of Same-Sign W <sup>+</sup> W <sup>+</sup> Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, Section B: Nuclear, Particle, and High Energy Physics, 2017, 118, 122301.	7.8	86

#	ARTICLE	IF	CITATIONS
19	Reconstruction and identification of $\tilde{l},$ lepton decays to hadrons and $\hat{1}/2$ at CMS. Journal of Instrumentation, 2016, 11, P01019-P01019.	1.2	85
20	Measurement of prompt and nonprompt charmonium suppression in $\text{PbPb}$ collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509.	3.9	83
21	Measurement of prompt and nonprompt charmonium suppression in $\text{PbPb}$ collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509.	7.8	80
22	Measurement of prompt and nonprompt charmonium suppression in $\text{PbPb}$ collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509.	4.1	80
23	Search for narrow resonances in dijet final states at $\sqrt{s} = 5.02$ TeV. Physical Review Letters, 2016, 117, 031802.	7.8	74
24	Measurement of charge multiplicity asymmetry correlations in high-energy nucleus-nucleus collisions at $\sqrt{s} = 5.02$ TeV. Physical Review C, 2014, 89, 054907.	2.9	73
25	Measurement of the splitting function in $\text{PbPb}$ collisions at $\sqrt{s} = 5.02$ TeV. Physical Review Letters, 2018, 120, 142302.	4.7	70
26	Measurement of the splitting function in $\text{PbPb}$ collisions at $\sqrt{s} = 5.02$ TeV. Physical Review Letters, 2018, 120, 142302.	7.8	70
27	Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 439.	4.7	66
28	Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 439.	3.9	64
29	Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	57
30	Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2016, 76, 451.	3.9	55
31	Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using $pp$ Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2017, 119, 141802.	7.8	54
32	Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.	4.7	54
33	Measurement of charged pion, kaon, and proton production in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2018, 78, 509.	4.7	48
34	Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity $\text{PbPb}$ Collisions at $\sqrt{s} = 5.02$ TeV. Physical Review Letters, 2018, 121, 082301.	7.8	48

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37	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ , $\sqrt{s} = 13$ Te. European Physical Journal C, 2019, 79, 364.	3.9	48
38	Anomalous centrality evolution of two-particle angular correlations from Au-Au collisions at $\sqrt{s_{NN}} = 200$ GeV. European Physical Journal C, 2019, 79, 364.	4.7	45
39	Pseudorapidity distribution of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 143-163.	2.9	45
40	Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.1	45
41	Single spin asymmetry in polarized proton elastic scattering at $\sqrt{s} = 200$ GeV. Journal of High Energy Physics, 2013, 719, 62-69.	4.7	42
42	Search for Higgs boson pair production in the final state in heavy-ion collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2013, 719, 62-69.	4.1	41
43	Search for Higgs boson pair production in the final state in heavy-ion collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2013, 719, 62-69.	2.9	40
44	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.	4.1	40
45	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	40
46	Azimuthal Anisotropy in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. European Physical Journal C, 2018, 78, 965.	3.9	39
47	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.	7.8	38
48	Measurements of production cross sections of $WZ$ and same-sign $W^+W^+$ boson pairs in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 636.	3.9	38
49	Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.1	37
50	Search for Low Mass Vector Resonances Decaying to Quark-Antiquark Pairs in Proton-Proton Collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	36
51	Search for anomalous $Wtb$ couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2017, 2017, 1.	7.8	35
52	Search for anomalous $Wtb$ couplings and flavour-changing neutral currents in t-channel single top quark production in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	35
53	Measurement of exclusive $\Upsilon$ photoproduction from protons in $p$ -Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2019, 79, 277.	3.9	35
54	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

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55	Directed Flow of Identified Particles in Au+Au Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2016, 116, 052002.	7.8	34
56	Measurement of the Top Quark Pair Production Cross Section in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2016, 116, 052002.	7.8	34
57	Measurement of the cross section for electroweak production of Z in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 380-402.	4.1	34
58	Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 90.	3.9	34
59	Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at $s = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 244-269.	4.1	33
60	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
61	Search for singly and pair produced leptoquarks coupling to third-generation fermions in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 819, 136446.	4.1	33
62	Charged-particle angular correlations in XeXe collisions at $\sqrt{s} = 2.76$ TeV. Physical Review C, 2019, 100, .	4.1	32
63	Non-Gaussian elliptic-flow fluctuations in PbPb collisions at $\sqrt{s} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 643-665.	4.1	32
64	Search for heavy gauge $W_{\mu\nu}$ bosons in events with an energetic lepton and large missing transverse momentum at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 278-301.	4.1	31
65	Jets in lepton+jet events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2018, 98, 014011.	4.7	30
66	Evolution of the differential transverse momentum correlation function with centrality in Au+Au collisions at $\sqrt{s} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 467-473.	4.1	29
67	System size and energy dependence of near-side dihadron correlations. Physical Review C, 2012, 85, .	2.9	28
68	Search for long-lived particles decaying into displaced jets in proton-proton collisions at $s = 13$ TeV. Physical Review D, 2019, 99, .	4.7	28
69	Search for pair production of vector-like quarks in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2018, 98, 014011.	4.1	28
70	Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	28
71	Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	27
72	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

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73	Di-electron spectrum at mid-rapidity in $\sqrt{s} = 8$ TeV proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2012, 86, .	2.9	25
74	Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 325.	3.9	25
75	Measurement of the WZ production cross section in pp collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 766, 268-290.	4.1	25
76	Search for long-lived particles using displaced jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, .	4.7	25
77	Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2016, 93, .	4.7	24
78	Measurement of the jet mass in highly boosted $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2017, 77, 467.	3.9	23
79	Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s} = 8$ TeV and constraints on parton distribution functions. European Physical Journal C, 2017, 77, 746.	3.9	23
80	Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 1.	4.7	23
81	Evidence for X(3872) in Pb-Pb Collisions and Studies of its Prompt Production at $\sqrt{s_{NN}} = 2.76$ TeV. Directed and elliptic flow of charged particles in Cu-Cu collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review D, 2012, 85, .	7.8	23
82	Directed and elliptic flow of charged particles in Cu-Cu collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review D, 2012, 85, .	2.9	21
83	Search for bottom-type, vectorlike quark pair production in a fully hadronic final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2020, 102, .	4.7	21
84	Search for the production of a photon and a Z boson in AuAu collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2012, 85, .	2.9	20
85	Search for rare decays of Z and Higgs bosons to $J/\psi$ and a photon in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 94.	3.9	20
86	Search for a light charged Higgs boson in the $H \rightarrow \tau^+ \tau^-$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2012, 85, .	4.7	20
87	Search for two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 812, 136018.	4.1	20
88	Measurement of the $W \rightarrow e \nu_e$ and $Z \rightarrow e^+ e^-$ production cross sections at mid-rapidity in proton-proton collisions at $\sqrt{s} = 500$ GeV. Physical Review D, 2012, 85, .	4.7	19
89	Principal-component analysis of two-particle azimuthal correlations in PbPb and pPb collisions at CMS. Physical Review C, 2017, 96, .	2.0	19
90	Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 263-291.	4.1	19

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91	Measurement of normalized differential $\overline{\sigma}(\mathbf{t})$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	18
92	Observation of nuclear modifications in $W^{\pm}$ boson production in pPb collisions at $\sqrt{s_{NN}}=8.16$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 800, 135048.	4.1	18
93	Measurement of electroweak-induced production of $W^{\pm}j^3$ with two jets in pp collisions at $\sqrt{s}=8$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2017, 2017, 1.	4.7	17
94	Angular analysis of the decay $B \rightarrow K^* K^* \pi^0$ in proton-proton collisions at $\sqrt{s}=8$ TeV. Physical Review D, 2018, 98, .	4.7	17
95	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
96	Search for Long-Lived Particles Decaying in the CMS End Cap Muon Detectors in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2021, 127, 261804.	7.8	17
97	Measurement of the $\overline{\sigma}(\mathbf{t})$ cross sections in association with a $W^{\pm}$ boson in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.1	16
98	Observation of Forward Neutron Multiplicity Dependence of Dimuon Acoplanarity in Ultraperipheral Pb-Pb Collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2021, 127, 122001.	7.8	16
99	Freeze-out dynamics via charged kaon femtoscopy in central Au+Au collisions. Physical Review C, 2013, 88, .	2.9	15
100	Measurement of the $\overline{\sigma}(\mathbf{t})$ production cross section using events with one lepton and at least one jet in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
101	Search for new physics with dijet angular distributions in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
102	Measurement of the polarization and angular parameters in $W^{\pm}j^3$ production in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 96, 168190.	4.7	15
103	Measurement of the $\overline{\sigma}(\mathbf{t})$ cross sections in association with a $W^{\pm}$ boson in pp collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 96, 168190.	4.1	15
104	Search for associated production of dark matter with a Higgs boson decaying to $b\bar{b}$ or $\tau\bar{\tau}$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	14
105	Meson production in pp and PbPb collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 96, 168190.	4.1	14
106	Measurements of the $\overline{\sigma}(\mathbf{t})$ 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
107	Inclusive nonresonant multilepton probes of new phenomena at $\sqrt{s}=13$ TeV. Physical Review D, 2022, 105, .	4.7	14
108	Experimental studies of di-jet survival and surface emission bias in Au+Au collisions via angular correlations with respect to back-to-back leading hadrons. Physical Review C, 2011, 83, .	2.9	13

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109	Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
110	Jet properties in PbPb and pp collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	13
111	Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
112	Measurement of the $W\tilde{\chi}^0_1$ Production Cross Section in Proton-Proton Collisions at $s=13$ TeV and Constraints on Effective Field Theory Coefficients. Physical Review Letters, 2021, 126, 252002.	7.8	13
113	Measurement of the azimuthal anisotropy of and mesons in $Pb-Pb$ collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. Physical Review Letters, 2017, 118, 012301.	4.1	13
114	Phenomenological MSSM interpretation of CMS searches in pp collisions at $s = 7$ TeV and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	12
115	Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at $s=8$ TeV. Physical Review D, 2017, 95, .	4.7	12
116	Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s_{\mathrm{NN}}}=5.02$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
117	Search for Dark Matter Particles Produced in Association with a Top Quark Pair at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 122, 011803.	7.8	12
118	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
119	Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2019, 79, 893.	3.9	12
120	Development and validation of HERWIG tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	3.9	12
121	Search for standard model production of four top quarks in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 336-358.	4.1	11
122	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
123	Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
124	Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the $\tilde{\chi}^0_1\tilde{\chi}^0_1, b\bar{b}$ final state at 13 TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	11
125	Using Z Boson Events to Study Parton-Medium Interactions in Pb-Pb Collisions. Physical Review Letters, 2022, 128, 122301.	7.8	11
126	Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $s = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	10



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127	Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle, and High Energy Physics, 2018, 770, 166-190.	4.7	10
128	Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	10
129	Measurement of the top quark Yukawa coupling from kinematic distributions in the dilepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 102001.	4.7	10
130	Search for resonant pair production of Higgs bosons in the $b\bar{b}Z$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 102001.	4.7	10
131	Search for Flavor-Changing Neutral Current Interactions of the Top Quark and Higgs Boson in Final States with Two Photons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2020, 125, 102001.	7.8	10
132	System-size dependence of transverse momentum correlations at $\sqrt{s} = 200$ GeV at the BNL Relativistic Heavy Ion Collider. Physical Review C, 2013, 87, .	2.9	9
133	Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 1.	3.9	9
134	Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton + jets final state in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 1.	3.9	9
135	Study of charm quark diffusion inside jets using Pb-Pb and pp collisions at $\sqrt{s} = 2.76$ and $7$ TeV. Physical Review Letters, 2020, 125, 102001.	4.1	9
136	Search for a heavy resonance decaying to a Z boson and a Z or W boson in $2q$ final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	7.8	9
137	Angular analysis of the decay $B^+ \rightarrow K^+ \bar{K}^0$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	9
138	Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions. Journal of Instrumentation, 2020, 15, P10002-P10002.	1.2	9
139	Searches for $W\tilde{e}^2$ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	8
140	Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ and 8.16 TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	8
141	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2q$ final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	8
142	Measurement of inclusive very forward jet cross sections in proton-lead collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	8
143	Search for long-lived particles decaying to jets with displaced vertices in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 104, .	4.7	8
144	Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb $^{-1}$ of proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8

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145	Study of quark and gluon jet substructure in Z+jet and dijet events from pp collisions. Journal of High Energy Physics, 2022, 2022, 1.	4.7	8
146	Search for leptophobic $Z\tilde{a}^{\pm 2}$ bosons decaying into four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 563-584.	4.7	7
147	Study of central exclusive "Equation missing" $\langle \!-\! \text{No EquationSource Format="TEX", only image} \rightarrow$ production in proton-proton collisions at $\sqrt{s} = 5.02$ TeV and 13 TeV. European Physical Journal C, 2020, 80, 718.	3.9	7
148	Measurement of differential $t\bar{t}$ production cross sections using top quarks at large transverse momenta in $pp$ collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 103, .	4.7	7
149	Measurements of the $pp \rightarrow W\tilde{A}^{\pm 2} + 3j$ and $pp \rightarrow Z\tilde{A}^{\pm 2} + 3j$ cross sections at $\sqrt{s} = 13$ TeV and limits on anomalous quartic gauge couplings. Journal of High Energy Physics, 2021, 2021, 1.	4.7	7
150	First Search for Exclusive Diphoton Production at High Mass with Tagged Protons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2022, 129.	7.8	7
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