

# HÃ¼seyin Bahtiyar

## List of Publications by Year in descending order

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Version: 2024-02-01

123  
papers

8,951  
citations

28190

55  
h-index

42291

92  
g-index

127  
all docs

127  
docs citations

127  
times ranked

8049  
citing authors

#	ARTICLE	IF	CITATIONS
1	Description and performance of track and primary-vertex reconstruction with the CMS tracker. Journal of Instrumentation, 2014, 9, P10009-P10009.	0.5	380
2	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	1.4	342
3	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.	1.6	320
4	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.	1.4	320
5	Measurement of the properties of a Higgs boson in the four-lepton final state. Physical Review D, 2014, 89, .	1.6	299
6	Measurement of the $B \rightarrow s \gamma$ branching fraction and search for $B \rightarrow s \gamma$ decays with $B \rightarrow s \gamma$ decays. Physical Review Letters, 2014, 113, 171801.	2.9	282
7	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.	1.4	241
8	Search for heavy neutrinos and $W$ bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3149.	1.4	179
9			

#	ARTICLE	IF	CITATIONS
19	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	118
20	Measurement of jet fragmentation in PbPb and at Physical Review C, 2014, 90.	1.1	113
21	Inclusive search for a vector-like T quark with charge mass spectrum from Physical Review C, 2014, 90.	1.5	112
22	Measurement of the prompt in pp collisions at Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 729, 149-171.	1.5	110
23	Measurement of the prompt Collisions at	2.9	108
24	Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	100
25	Measurement of the prompt and		

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37	Study of exclusive two-photon production of $W+W\hat{a}^{\sim}$ in pp collisions at $\sqrt{s}=7$ TeV and constraints on anomalous quartic gauge couplings. Journal of High Energy Physics, 2013, 2013, 1.	1.6	75
38	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.	1.4	75
39	Measurement of the $X(3872)$ production cross section via decays to $J/\psi + \hat{a}^{\sim}$ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	73
40	Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2015, 91, 112004.	1.6	73
41	Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s}=7$ TeV. Physical Review D, 2014, 90, 112004.	1.6	70
42	Measurement of the t-channel single-top-quark production cross section and of the $ V_{tb} $ CKM matrix element in pp collisions at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	70
43	Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s}=8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	69
44	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.	1.4	68
45	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.	1.6	68
46	Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2014, 74, 3129.	1.4	65
47	Measurements of $t\bar{t}$ production cross sections in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2469.	1.4	64
48	Spin Correlations and Top-Quark Polarization Using Dilepton Final States in $t\bar{t}$ Production. Physical Review D, 2014, 90, 112004.	2.9	63
49	Measurement of the $W+W\hat{a}^{\sim}$ cross section in pp collisions at $\sqrt{s}=7$ TeV and limits on anomalous $WW\hat{a}^{\sim}$ and $WWZ$ couplings. European Physical Journal C, 2013, 73, 1.	1.4	62
50	Measurement of prompt $J/\psi$ pair production in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	61
51	Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s}=7$ TeV and first determination of the strong coupling constant in the TeV range. European Physical Journal C, 2013, 73, 1.	1.4	60
52	Studies of jet mass in dijet and $W/Z$ + jet events. Journal of High Energy Physics, 2013, 2013, 1.	1.6	58
53	Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at $\sqrt{s}=8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 371-397.	1.5	57
54	Differential cross section measurements for the production of a W boson in association with jets in proton-proton collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 741, 12-37.	1.5	57

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55	Measurement of the ratio of inclusive jet cross sections using the anti- $k$ algorithm with radius parameters $R$ and $0.5$ and Event activity dependence of $Y$ (nS) production in $\sqrt{s} = 5.02$ TeV pPb and $\sqrt{s} = 2.76$ TeV pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	1.6	56
56	Measurement of masses in the $\overline{t}t$ system by kinematic endpoints in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2494.	1.4	55
57	Measurement of associated W + charm production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	55
59	Search for supersymmetry in pp collisions at $\sqrt{s} = 8$ TeV in events with a single lepton, large jet multiplicity, and multiple b jets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 733, 326-353.	1.6	52
60	Measurement of the $\overline{t}t$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	52
61	Searches for heavy Higgs bosons in two-Higgs-doublet models and $\hat{\tau}^+\tau^-$ decay using multilepton and diphoton final states in pp collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2014, 90, .	1.6	51
62	Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.	1.6	51
63	Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	50
64	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.	1.4	49
65	Search for new resonances decaying via $WZ$ to leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 83-104.	1.6	48
66	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.	1.6	48
67	Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	47
68	Search for Top Squarks in Parity-Violating Supersymmetry Using Three or More Leptons and b-Tagged jets. Physical Review Letters, 2013, 111, 221801.	2.9	47
69	Measurement of the ratio of inclusive jet cross sections using the anti- $k$ algorithm with radius parameters $R$ and $0.5$ and Event activity dependence of $Y$ (nS) production in $\sqrt{s} = 5.02$ TeV pPb and $\sqrt{s} = 2.76$ TeV pp collisions. Journal of High Energy Physics, 2014, 2014, 1.	2.9	47
70	Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	46
71	Search for narrow resonances decaying via $WZ$ to leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 83-104.	1.6	46

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73	Measurement of associated production of vector bosons and top quark-antiquark pairs in $pp$ collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.5	45
74	Measurement of associated production of vector bosons and top quark-antiquark pairs in $pp$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3060.	2.9	45
75	Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802.	2.9	45
76	Search for microscopic black holes in $pp$ collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	44
77	Measurement of four-jet production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	2.9	43
78	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.	1.4	43
79	Measurement of four-jet production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	40
80	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.	1.6	39
81	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.	1.6	39
82	Measurement of the production cross section for a W boson and two b jets in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.5	37
83	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.	1.6	37
84	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.	1.5	36
85	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.	1.4	35
86	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. Journal of High Energy Physics, 2013, 2013, 1.	1.6	32
87	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.	1.4	32
88	Alignment of the CMS tracker with LHC and cosmic ray data. Journal of Instrumentation, 2014, 9, P06009-P06009.	0.5	32

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91	Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.5	32
92	Measurement of the triple-differential cross section for photon + jets production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	31
93	Measurement of the W-boson helicity in top-quark decays from $\overline{\text{t}} \rightarrow \text{W} + \text{b}$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	30
94	Measurement of the $\overline{\text{t}} \rightarrow \text{W} + \text{b}$ production cross section in the $\text{t} \rightarrow \text{W} + \text{b}$ channel in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	1.5	29
95	Charmed baryon spectrum from lattice QCD near the physical point. Physical Review D, 2020, 102, .	1.6	29
96	Study of Z production in PbPb and pp collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1.	1.6	27
97	Search for $\text{W} \rightarrow \text{t} \text{b}$ decays in the lepton + jets final state in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	26
98	Measurement of the $\text{t} \rightarrow \text{W} + \text{b}$ production cross section in the $\text{t} \rightarrow \text{W} + \text{b}$ channel in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 1.	1.4	24
99	Radiative transitions of doubly charmed baryons in lattice QCD. Physical Review D, 2018, 98, .	1.6	24
100	Search for excited quarks in the $\text{t} \rightarrow \text{W} + \text{b}$ final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 274-293.	1.5	23
101	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.	1.4	23
102	Nuclear binding energy predictions using neural networks: Application of the multilayer perceptron. International Journal of Modern Physics E, 2021, 30, 2150017.	0.4	22
103	Measurement of the $\text{t} \rightarrow \text{W} + \text{b}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.5	20
104	Measurements of the $\overline{\text{t}} \rightarrow \text{W} + \text{b}$ charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	20
105	Measurement of the $\Lambda_{\text{b}}^0$ lifetime in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	1.6	17
106	Probing color coherence effects in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2901.	1.4	17
107	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.	1.6	16
108	Measurement of jet multiplicity distributions in $\text{t} \overline{\text{t}}$ production in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 3014.	1.4	16

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109	Measurement of the production cross section ratio $\sigma(\tilde{t}\tilde{t}^*)/\sigma(\tilde{t}\tilde{b})$ in pp collisions at $\sqrt{s} = 8$ TeV. Search for supersymmetry with razor variables in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2015, 743, 383-402.	1.5	16
110	Search for third-generation leptons and scalar bottom quarks in pp collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2014, 90, .	1.6	15
111	Search for third-generation leptons and scalar bottom quarks in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	14
112	Measurement of the production cross section for $Z\gamma$ in pp collisions at $\sqrt{s} = 7$ TeV and limits on $ZZ\gamma$ and $Z\gamma\gamma$ triple gauge boson couplings. Journal of High Energy Physics, 2013, 2013, 1.	1.6	14
113	Measurement of the production cross section for $Z\gamma$ in pp collisions at $\sqrt{s} = 7$ TeV and limits on $ZZ\gamma$ and $Z\gamma\gamma$ triple gauge boson couplings. Journal of High Energy Physics, 2013, 2013, 1.	1.6	12
114	Search for baryon number violation in top-quark decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 731, 173-196.	1.5	12
115	Z tetraquark channel from lattice QCD and Born-Oppenheimer approximation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135467.	1.5	12
116	Measurement of the mass difference between top quark and antiquark in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 50-71.	1.5	9
117	Measurement of neutral strange particle production in the underlying event in proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2013, 88, .	1.6	7
118	?? form factors in lattice QCD. Turkish Journal of Physics, 2021, 45, 185-193.	0.5	7
119	Search for jet extinction in the inclusive jet+jet production from proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2014, 90, .	1.6	6
120	Spectrum of the Charmed Baryons in 2+1-flavor Lattice QCD. , 2019, , .		5
121	Search for pair production of excited top quarks in the lepton + jets final state. Journal of High Energy Physics, 2014, 2014, 1.	1.6	4
122	Study of hadronic event-shape variables in multijet final states in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	3
123	Radiative Transitions of Singly and Doubly Charmed Baryons in Lattice QCD. , 2019, , .		2