

# HÃ¼seyin Bahtiyar

## List of Publications by Year in descending order

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Version: 2024-02-01

123  
papers

8,951  
citations

28274

55  
h-index

42399

92  
g-index

127  
all docs

127  
docs citations

127  
times ranked

8049  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nuclear binding energy predictions using neural networks: Application of the multilayer perceptron. International Journal of Modern Physics E, 2021, 30, 2150017.	1.0	22
2	?? â† ? form factors in lattice QCD. Turkish Journal of Physics, 2021, 45, 185-193.	1.1	7
3	Charmed baryon spectrum from lattice QCD near the physical point. Physical Review D, 2020, 102, .	4.7	29
4	Z tetraquark channel from lattice QCD and Born-Oppenheimer approximation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135467.	4.1	12
5	Spectrum of the Charmed Baryons in 2+1-flavor Lattice QCD. , 2019, , .		5
6	Radiative Transitions of Singly and Doubly Charmed Baryons in Lattice QCD. , 2019, , .		2
7	Radiative transitions of doubly charmed baryons in lattice QCD. Physical Review D, 2018, 98, .	4.7	24
8	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.	4.1	9
9	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, 2017, 770, 50-71.	4.1	29
10	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, 2017, 770, 50-71.	4.1	32
11	Search for new resonances decaying via WZ to leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 91, .	4.7	73
12	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.	4.1	9
13	Measurement of the production cross section ratio $\sigma(\Upsilon(1P))/\sigma(\Upsilon(2P))$ in pp collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 383-402.	4.7	57
14	Measurement of the production cross section ratio $\sigma(\Upsilon(1P))/\sigma(\Upsilon(2P))$ in pp collisions at $\sqrt{s} = 8$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 383-402.	4.1	16
15	Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 91, .	4.7	46
16	Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2015, 91, .	4.7	90
17	Study of Z production in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV in the dimuon and dielectron decay channels. Journal of High Energy Physics, 2015, 2015, 1.	4.7	27
18	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

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19	Measurement of prompt $J/\psi$ pair production in association with a $W$ or $Z$ boson in $pp$ collisions at $\sqrt{s} = 8$ TeV by the CMS and TOTEM experiments. European Physical Journal C, 2014, 74, 1.	7.8	47
20	Searches for heavy Higgs bosons in two-Higgs-doublet models and $\tau^+\tau^-$ decay using multilepton and diphoton final states in $pp$ collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2014, 90, .	4.7	51
21	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.	4.7	15
22	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.	3.9	179
23	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
24	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.	3.9	65
25	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
26	Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and $W$ , $Z$ , and Higgs bosons in $pp$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2014, 74, 3036.	3.9	241
27	Measurement of prompt $J/\psi$ pair production in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	61
28	Measurement of the production cross section for a $W$ boson and two $b$ jets in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 204-205.	4.1	23
29	Measurement of the production cross section for a $W$ boson and two $b$ jets in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 274-293.	4.1	23
30	Alignment of the CMS tracker with LHC and cosmic ray data. Journal of Instrumentation, 2014, 9, P06009-P06009.	1.2	32
31	Measurement of jet fragmentation in PbPb and $pp$ collisions at $\sqrt{s} = 2.76$ TeV. Physical Review C, 2014, 89, .	2.9	113
32	Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s} = 2.76$ TeV. Physical Review C, 2014, 89, .	2.9	133
33	Search for Top Squark and Higgsino Production Using Diphoton Higgs Boson Decays. Physical Review Letters, 2014, 112, 161802.	7.8	45
34	Search for anomalous production of events with three or more leptons in $pp$ collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2014, 90, .	4.7	70
35	Measurements of $W$ boson production cross sections in $pp$ collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2014, 90, .	7.8	94
36	Measurements of $W$ boson production cross sections in $pp$ collisions at $\sqrt{s} = 8$ TeV. Physical Review D, 2014, 90, .	7.8	63

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37	Search for Top-Quark Partners with Charge $\frac{2}{3}$ in $pp$ Collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 112, 171801.	7.8	76
38	Search for Jet Extension in the Inclusive Jet Cross Section from proton-proton collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2014, 90, 014004.	4.7	6
39	Search for the standard model Higgs boson produced in association with a $W$ boson and decaying to bottom quarks. Physical Review D, 2014, 89, 012001.	4.7	37
40	Measurement of the muon charge asymmetry in inclusive $W$ boson production in $pp$ collisions at $\sqrt{s} = 7$ TeV. Physical Review D, 2014, 89, 012001.	4.7	161
41	Measurement of the ratio of inclusive jet cross sections using the anti- $k_T$ algorithm with radius parameters $R = 0.5$ and $R = 0.7$ . Physical Review D, 2014, 89, 014004.	4.7	64
42	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	4.7	83
43	Evidence of $b\bar{b}$ Jet Quenching in PbPb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2014, 112, 022301.	3.9	342
44	Search for the associated production of the Higgs boson with a top-quark pair. Journal of High Energy Physics, 2014, 2014, 1.	7.8	85
45	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.	4.7	3
46	Description and performance of track and primary-vertex reconstruction with the CMS tracker. Journal of Instrumentation, 2014, 9, P10009-P10009.	1.2	380
47	Searches for light- and heavy-flavour three-jet resonances in $pp$ collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.1	36
48	Measurement of Higgs boson production and properties in the $WW$ decay channel with leptonic final states. Journal of High Energy Physics, 2014, 2014, 1.	4.7	169
49	Measurement of the $t\bar{t}$ production cross section in the dilepton channel in $pp$ collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	52

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55	Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	77
56	Measurement of associated W + charm production in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	55
57	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
58	Measurement of the $\frac{d\sigma}{d\Omega d\Omega'} \frac{dN}{d\Omega d\Omega'}$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.1	20
59	Measurement of the $\frac{d\sigma}{d\Omega d\Omega'} \frac{dN}{d\Omega d\Omega'}$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.		



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73	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.	4.7	70
74	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
75	Search for pair production of excited top quarks in the lepton + jets final state. Journal of High Energy Physics, 2014, 2014, 1.	4.7	4
76	Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	85
77	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.	4.7	69
78	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
79	Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 2847.	3.9	85
80	Probing color coherence effects in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2014, 74, 2901.	3.9	17
81	Measurement of the production cross section for a vector-like top quark with charge $\pm 2/3$ in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.1	110
82	Modification of jet shapes in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 730, 243-263.	4.1	144
83	Search for baryon number violation in top-quark decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 731, 173-196.	4.1	12
84	Observation of the Associated Production of a Single Top Quark and a W Boson in pp Collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	7.8	108
85	Search for supersymmetry in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.1	112
86	Search for "supersymmetry" in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	44
87	Search for microscopic black holes in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	44
88	Measurement of the $\Lambda_{b}^0$ lifetime in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	17
89	Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	118
90	Study of exclusive two-photon production of $W+W\gamma$ 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

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91	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
92	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
93	Studies of jet mass in dijet and W/Z + jet events. Journal of High Energy Physics, 2013, 2013, 1.	4.7	58
94	Measurement of the X(3872) production cross section via decays to $J/\psi + \bar{\psi}\psi$ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	73
95	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.	4.7	50
96	Search in leptonic channels for heavy resonances decaying to long-lived neutral particles. Journal of High Energy Physics, 2013, 2013, 1.	4.7	32
97	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
98	Angular analysis and branching fraction measurement of the decay $B \rightarrow K^* \mu^+ \mu^-$ . Journal of High Energy Physics, 2013, 727, 77-100.	4.1	45
99	Measurement of neutral strange particle production in the underlying event in proton-proton collisions at $\sqrt{s}=7$ TeV and limits on $ZZ^3$ and $Z\bar{Z}^3$ triple gauge boson couplings. Journal of High Energy Physics, 2013, 2013, 1.	4.7	7
100	Measurement of the production cross section for $Z \rightarrow \mu^+ \mu^-$ and limits on $ZZ^3$ and $Z\bar{Z}^3$ triple gauge boson couplings. Journal of High Energy Physics, 2013, 2013, 1.	4.7	14
101	Measurement of the W-boson helicity in top-quark decays from $t \rightarrow W b$ production in lepton+jets events in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	30
102	Search for supersymmetry in hadronic final states with missing transverse energy using the variables $\hat{t}$ and b-quark multiplicity in pp collisions at $\sqrt{s}=8$ TeV. European Physical Journal C, 2013, 73, 2568.	3.9	147
103	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
104	Measurement of masses in the $t\bar{t}$ system by kinematic endpoints in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2494.	3.9	55
105	Measurement of the $t\bar{t}$ production cross section in the $t\bar{t} + \text{jets}$ channel in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 1.	3.9	24
106	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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109	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
110	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.	4.7	47
111	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.	3.9	60
112	Measurement of the $W+W\gamma$ cross section in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous $WW\tilde{\Gamma}^3$ and $WWZ$ couplings. European Physical Journal C, 2013, 73, 1.	3.9	62
113	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.	4.7	46
114	Measurement of the prompt $J\tilde{\Gamma}$ and $J\tilde{\Gamma}$ cross sections in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.		