

# Seon Hee Seo

## List of Publications by Year in descending order

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501  
papers

19,095  
citations

13865

67  
h-index

26613

107  
g-index

515  
all docs

515  
docs citations

515  
times ranked

11809  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC pp collision data at $s = 7 \sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	473
2	First year performance of the IceCube neutrino telescope. Astroparticle Physics, 2006, 26, 155-173.	4.3	379
3	Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s} = 13, \text{ext} \{T\}$ . European Physical Journal C, 2019, 79, 421.	3.9	355
4	Particle-flow reconstruction and global event description with the CMS detector. Journal of Instrumentation, 2017, 12, P10003-P10003.	1.2	348
5	The IceCube data acquisition system: Signal capture, digitization, and timestamping. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 601, 294-316.	1.6	312
6	An absence of neutrinos associated with cosmic-ray acceleration in $\hat{\nu}^3$ -ray bursts. Nature, 2012, 484, 351-354.	27.8	272
7	Evidence for collectivity in pp collisions at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 193-220.	4.1	243
8	Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV. Journal of Instrumentation, 2018, 13, P05011-P05011.	1.2	241
9	Search for Dark Matter Annihilations in the Sun with the 79-String IceCube Detector. Physical Review Letters, 2013, 110, 131302.	7.8	235
10	The design and performance of IceCube DeepCore. Astroparticle Physics, 2012, 35, 615-624.	4.3	222
11	Observation of Higgs Boson Decay to Bottom Quarks. Physical Review Letters, 2018, 121, 121801.	7.8	219
12	Calibration and characterization of the IceCube photomultiplier tube. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 618, 139-152.	1.6	211
13	Observation of $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 221801.	7.8	209
14	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
15	Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2018, 13, P06015-P06015.	1.2	180
16	IceTop: The surface component of IceCube. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 700, 188-220.	1.6	166
17	Observation of Energy and Baseline Dependent Reactor Antineutrino Disappearance in the RENO Experiment. Physical Review Letters, 2016, 116, 211801.	7.8	164
18	Search for Heavy Neutral Leptons in Events with Three Charged Leptons in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 120, 221801.	7.8	160

#	ARTICLE	IF	CITATIONS
19	Measurement of the atmospheric neutrino energy spectrum from 100 $\hat{A}$ GeV to 400 $\hat{A}$ TeV with IceCube. Physical Review D, 2011, 83, .	4.7	156
20	Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at $\sqrt{s}=13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 520-551.	4.1	146
21	Limits on a Muon Flux from Neutralino Annihilations in the Sun with the IceCube 22-String Detector. Physical Review Letters, 2009, 102, 201302.	7.8	132
22	TIME-INTEGRATED SEARCHES FOR POINT-LIKE SOURCES OF NEUTRINOS WITH THE 40-STRING IceCube DETECTOR. Astrophysical Journal, 2011, 732, 18.	4.5	126
23	Observation of the Higgs boson decay to a pair of $\tilde{l}$ , leptons with the CMS detector. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 283-316.	4.1	125
24	Measurement of South Pole ice transparency with the IceCube LED calibration system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 711, 73-89.	1.6	122
25	IceCube sensitivity for low-energy neutrinos from nearby supernovae. Astronomy and Astrophysics, 2011, 535, A109.	5.1	121
26	MEASUREMENT OF THE ANISOTROPY OF COSMIC-RAY ARRIVAL DIRECTIONS WITH ICECUBE. Astrophysical Journal Letters, 2010, 718, L194-L198.	8.3	119
27	Measurement of Reactor Antineutrino Oscillation Amplitude and Frequency at RENO. Physical Review Letters, 2018, 121, 201801.	7.8	117
28	OBSERVATION OF ANISOTROPY IN THE GALACTIC COSMIC-RAY ARRIVAL DIRECTIONS AT 400 TeV WITH ICECUBE. Astrophysical Journal, 2012, 746, 33.	4.5	115
29	Observation of Charge-Dependent Azimuthal Correlations in $pp$ Collisions and Its Implication for the Search for the Chiral Magnetic Effect. Physical Review Letters, 2017, 118, 122301.	7.8	111
30	OBSERVATION OF ANISOTROPY IN THE ARRIVAL DIRECTIONS OF GALACTIC COSMIC RAYS AT MULTIPLE ANGULAR SCALES WITH IceCube. Astrophysical Journal, 2011, 740, 16.	4.5	103
31	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
32	Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV. Physical Review Letters, 2019, 122, 121803.	7.8	102
33	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
34	Nuclear modification factor of $D_0$ mesons in PbPb collisions at $\sqrt{s_{NN}}=5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 474-496.	4.1	101
35	Search for new phenomena with the $M_{T2}$ variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2017, 77, 710.	3.9	98
36	Searches for invisible decays of the Higgs boson in $pp$ collisions at $\sqrt{s}=7, 8,$ and $13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	95

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37	IceCube sensitivity for low-energy neutrinos from nearby supernovae ( <i>Corrigendum</i> ). <i>Astronomy and Astrophysics</i> , 2014, 563, C1.	5.1	94
38	Multiyear search for a diffuse flux of muon neutrinos with AMANDA-II. <i>Physical Review D</i> , 2007, 76, .	4.7	92
39	Search for dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter and other models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 769, 520-542.	4.1	90
40	Search for a diffuse flux of astrophysical muon neutrinos with the IceCube 40-string detector. <i>Physical Review D</i> , 2011, 84, .	4.7	87
41	Observation of Electroweak Production of Same-Sign $W$ Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	7.8	86
42	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	86
43	Limits on Neutrino Emission from Gamma-Ray Bursts with the 40 String IceCube Detector. <i>Physical Review Letters</i> , 2011, 106, 141101.	7.8	85
44	OBSERVATION OF COSMIC-RAY ANISOTROPY WITH THE ICETOP AIR SHOWER ARRAY. <i>Astrophysical Journal</i> , 2013, 765, 55.	4.5	85
45	Measurement of prompt and nonprompt charmonium suppression in $\sqrt{s} = 5.02$ TeV collisions at $\sqrt{s} = 5.02$ TeV. <i>European Physical Journal C</i> , 2018, 78, 509.	3.9	83
46	Suppression and azimuthal anisotropy of prompt and nonprompt $\psi(2S)$ production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>European Physical Journal C</i> , 2017, 77, 252.	3.9	82
47	Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on dark matter mediators and other new particles. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	82
48	SEARCH FOR MUON NEUTRINOS FROM GAMMA-RAY BURSTS WITH THE IceCube NEUTRINO TELESCOPE. <i>Astrophysical Journal</i> , 2010, 710, 346-359.	4.5	81
49	Measurement of angular parameters from the decay $B \rightarrow \mu^+ \mu^- \gamma$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 781, 517-541.	4.7	80
50	Search for dark matter from the Galactic halo with the IceCube Neutrino Telescope. <i>Physical Review D</i> , 2011, 84, .	4.7	79
51	Search for dark matter in final states with an energetic jet or a hadronically decaying boson and transverse momentum imbalance at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	78
52	Physics potentials with the second Hyper-Kamiokande detector in Korea. <i>Progress of Theoretical and Experimental Physics</i> , 2018, 2018, .	6.6	77
53	Measurement of nuclear modification factors of $\Upsilon(1S)$ , $\Upsilon(2S)$ , and $\Upsilon(3S)$ mesons in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 790, 270-293.	4.7	76
54	Search for a Lorentz-violating sidereal signal with atmospheric neutrinos in IceCube. <i>Physical Review D</i> , 2010, 82, .	4.7	76

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55	Search for Ultra-High Energy Neutrinos with AMANDA-II. <i>Astrophysical Journal</i> , 2008, 675, 1014-1024.	4.5	74
56	Search for Narrow Resonances in Dijet Final States at $\sqrt{s} = 7.8$ TeV using the Novel CMS Technique of Data Scouting. <i>Physical Review Letters</i> , 2016, 117, 031802.	7.8	74
57	Search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 357, 130-133.	4.7	74
58	Search for long-lived charged particles in proton-proton collisions at $\sqrt{s} = 7.8$ TeV. <i>Physical Review D</i> , 2016, 94, 012004.	4.7	73
59	Search for Resonant Production of High-Mass Photon Pairs in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. <i>Physical Review Letters</i> , 2016, 117, 051802.	7.8	73
60	Search for additional neutral MSSM Higgs bosons in the $\tilde{t}, \tilde{t}^*$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	73
61	Determination of the atmospheric neutrino flux and searches for new physics with AMANDA-II. <i>Physical Review D</i> , 2009, 79, 012001.	4.7	71
62	Measurement of the Splitting Function in $p\bar{p}$ and Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. <i>Physical Review Letters</i> , 2018, 120, 112302.	7.8	70
63	Meson Azimuthal Anisotropy in Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. <i>Physical Review Letters</i> , 2018, 120, 202301.	7.8	70
64	Theia: an advanced optical neutrino detector. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	70
65	Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 767, 147-170.	4.1	69
66	Performance of reconstruction and identification of $\tilde{l}, \tilde{l}^*$ leptons decaying to hadrons and $\tilde{l}, \tilde{l}^* \rightarrow \tau, \tau^* + \nu_{\tau}, \nu_{\tau}^*$ in pp collisions at $\sqrt{s} = 13$ TeV. <i>Journal of Instrumentation</i> , 2018, 13, P10005-P10005.	1.2	69
67	Measurements of the Higgs boson width and anomalous $H \rightarrow \tau\tau$ couplings from on-shell and off-shell production in the four-lepton final state. <i>Physical Review D</i> , 2019, 99, 012001.	4.7	69
68	Constraints on the extremely-high energy cosmic neutrino flux with the IceCube 2008-2009 data. <i>Physical Review D</i> , 2011, 83, 012001.	4.7	68
69	Search for narrow resonances in $t\bar{t} + \text{jets}$ events in proton-proton collisions at $\sqrt{s} = 7.8$ TeV. <i>Physical Review Letters</i> , 2016, 117, 031802.	4.1	68
70	Measurement of the $t\bar{t} \rightarrow \tau\tau + \text{jets}$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at $\sqrt{s} = 13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 368.	3.9	68
71	Multiyear search for dark matter annihilations in the Sun with the AMANDA-II and IceCube detectors. <i>Physical Review D</i> , 2012, 85, 012001.	4.7	66
72	Results of a search for the $\psi(3770)$ state of charmonium in the $\psi(3770) \rightarrow J/\psi \gamma$ decay modes. <i>Physical Review D</i> , 2005, 72, 012001.	4.7	64

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73	Measurement of the Atmospheric $\nu_{\mu}$ Flux in IceCube. Physical Review Letters, 2013, 110, 151105.	7.8	64
74	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
75	Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in $Pb-Pb$ collisions at the CERN Large Hadron Collider. Physical Review C, 2018, 97, .	3.9	64
76	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
77	Evidence for the Higgs boson decay to a bottom quark-antiquark pair. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 501-532.	4.1	63
78	Measurement of the Meson Nuclear Modification Factor in Pb-Pb Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2017, 119, 152301.	7.8	62
79	Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	62
80	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
81	Measurement of the inclusive jet cross sections in $Pb-Pb$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2017, 96, .	7.8	62
82	The energy spectrum of atmospheric neutrinos between 2 and 200 TeV with the AMANDA-II detector. Astroparticle Physics, 2010, 34, 48-58.	4.3	61
83	Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2017, 96, .	4.7	61
84	Measurement of inclusive jet cross sections in $Pb-Pb$ collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review C, 2017, 96, .	2.9	59
85	Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in $p\bar{p}$ collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 701.	3.9	58
86	Detection of atmospheric muon neutrinos with the IceCube 9-string detector. Physical Review D, 2007, 76, .	4.7	57
87	Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 578.	3.9	57
88	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
89	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
90	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

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91	Search for narrow resonances in dilepton mass spectra in proton-proton collisions at $\sqrt{s} = 13$ TeV and combination with 8 TeV data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 101-127.	4.1	55
92	Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 778, 101-127.	4.1	55
93	Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s} = 8$ TeV and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	54
94	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
95	Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2019, 2019, 1.	4.7	54
96	Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.	4.7	54
97	Measurement of prompt and nonprompt $J/\psi$ production in pp and pp collisions at $\sqrt{s} = 5.02$ TeV. European Physical Journal C, 2017, 77, 269.	3.9	53
98	Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 320-347.	4.1	53
99	Five years of searches for point sources of astrophysical neutrinos with the AMANDA-II neutrino telescope. Physical Review D, 2007, 75, .	4.7	52
100	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
101	Measurements of the $\sigma(\text{pp} \rightarrow Z Z)$ production cross section and the $\sigma(\text{pp} \rightarrow Z \ell \ell)$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	3.9	52
102	Measurement of differential cross sections for top quark pair production using the lepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2017, 95, .	4.7	50
103	Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2018, 121, 241802.	7.8	50
104	Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 564.	3.9	50
105	Search for an $A'$ gauge boson using $Z \rightarrow 4\ell$ events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 345-368.	4.1	49
106	Observation of Y(1S) pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	48
107	Measurement of charged pion, kaon, and proton production in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2017, 96, .	4.7	48
108	Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV/c in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 776, 195-216.	4.7	48

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109	Simple Flow of Charm and Strange Hadrons in High-Multiplicity $pp$ Collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 121, 082301.	7.8	48
110	Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2019, 79, 364.	3.9	48
111	New results from RENO and the 5 MeV excess. AIP Conference Proceedings, 2015, .	0.4	47
112	Spectral measurement of the electron antineutrino oscillation amplitude and frequency using 500 live days of RENO data. Physical Review D, 2018, 98, .	4.7	47
113	Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physical Review Letters, 2019, 122, 232501.	4.1	47
114	Search for the $W \rightarrow \tau \nu$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 140-166.	7.8	47
115	Search for supersymmetric partners of electrons and muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 140-166.	4.1	47
116	Search for third-generation scalar leptoquarks decaying to a top quark and a $\tau$ lepton at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 707.	3.9	46
117	Fuel-Composition Dependent Reactor Antineutrino Yield at RENO. Physical Review Letters, 2019, 122, 232501.	7.8	46
118	Measurement of vector boson scattering and constraints on anomalous quartic couplings from events with four leptons and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 682-705.	4.1	45
119	Search for point sources of high energy neutrinos with final data from AMANDA-II. Physical Review D, 2009, 79, .	4.7	44
120	Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2018, 78, 140.	3.9	44
121	Search for anomalous production of the Higgs boson decaying to a $W$ boson pair in $pp$ collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 96-129.	4.1	44
122	The Search for Muon Neutrinos from Northern Hemisphere Gamma-Ray Bursts with AMANDA. Astrophysical Journal, 2008, 674, 357-370.	4.5	43
123	FIRST NEUTRINO POINT-SOURCE RESULTS FROM THE 22 STRING ICECUBE DETECTOR. Astrophysical Journal, 2009, 701, L47-L51.	4.5	43
124	Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in final states with jets and missing transverse momentum. Journal of High Energy Physics, 2018, 1.	4.7	43
125	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two $b$ quarks and two $\tau$ leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 462-488.	4.1	43
126	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.	4.7	42



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127	Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2018, 2018, 1.	4.7	42
128	Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at $s = 13 \sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2017, 2017, 1.	4.7	41
129	GAMBIT: the global and modular beyond-the-standard-model inference tool. European Physical Journal C, 2017, 77, 1.	3.9	41
130	Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 398-423.	4.1	41
131	Searching for soft relativistic jets in core-collapse supernovae with the IceCube optical follow-up program. Astronomy and Astrophysics, 2012, 539, A60.	5.1	40
132	Measurement of the $\sigma(\text{t}\bar{\text{t}}\text{t}\bar{\text{t}})$ production cross section using events in the $e\mu e\bar{\nu}_4$ final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2017, 77, 172.	3.9	40
133	Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 775, 1-24.	4.1	40
134	Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review Letters, 2017, 119, 221802.	7.8	40
135	Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair. Physical Review Letters, 2018, 120, 071802.	7.8	40
136	Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ and constraints on dark matter and other models. European Physical Journal C, 2018, 78, 789.	3.9	40
137	Measurement of the top quark mass in the all-jets final state at $\sqrt{s} = 13 \text{ TeV}$ and combination with the lepton+jets channel. European Physical Journal C, 2019, 79, 313.	3.9	40
138	Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . Journal of High Energy Physics, 2019, 2019, 1.	4.7	40
139	Cross section measurement of t-channel single top quark production in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 752-776.	4.1	40
140	Search for Higgs boson pair production in the $4\ell$ final state in pp collisions at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review Letters, 2017, 119, 221802.	7.8	39
141	Measurement of differential cross sections for $Z$ boson production in association with jets in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2018, 78, 965.	3.9	39
142	Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at $\sqrt{s} = 13 \text{ TeV}$ . Physical Review D, 2018, 98, .	4.7	39
143	Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$ . European Physical Journal C, 2017, 77, 845.	3.9	38

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146	Suppression of Excited States Relative to the Ground State in Pb-Pb Collisions at $\sqrt{s} = 2.76$ TeV. Physical Review Letters, 2018, 120, 142301.	7.8	38
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221	A search for pair production of new light bosons decaying into muons in proton-proton collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 796, 131-154.	4.7	27
222	A search for pair production of new light bosons decaying into muons in proton-proton collisions at 13 TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 796, 131-154.	4.1	27
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248	Search for resonant $\text{t}\overline{\text{t}}$ production in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	23
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261	Search for supersymmetry in events with a $\tilde{l}$ , lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	21
262	Search for beyond the standard model Higgs bosons decaying into a $b\bar{b}$ pair in pp collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	21
263	Search for $W$ Boson and a $C$ Boson and a $P$ Boson in Final States with $b\bar{b}$ in pp collisions at $\sqrt{s}=13$ TeV. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	7.8	21
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275	Measurement of the differential cross sections for the associated production of a $W$ boson and jets in proton-proton collisions at $\sqrt{s}=13$ TeV. Physical Review D, 2017, 96, .	4.7	19
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277	Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	19
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279	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, 2019, 778, 255501.	4.1	19
280	Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at 13 TeV. Physical Review Letters, 2018, 120, 241801.	7.8	19
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313	Measurement of associated $Z$ + charm production in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2018, 78, 287.	3.9	16
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343	Studies of $\{\mathrm{B}\}^{\ast}_{\{\mathrm{s}\}2}(5840)^0 \mathrm{B} s 2 \hat{a} - (5840) 0$ and $\{\mathrm{B}\}$		
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