

R-Y Zhu

List of Publications by Year in descending order

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244
papers

13,221
citations

66343

42
h-index

23533

111
g-index

251
all docs

251
docs citations

251
times ranked

13364
citing authors

#	ARTICLE	IF	CITATIONS
1	Hadron-Induced Radiation Damage in LuAG:Ce Scintillating Ceramics. IEEE Transactions on Nuclear Science, 2022, 69, 181-186.	2.0	8
2	Development, construction and tests of the Mu2e electromagnetic calorimeter mechanical structures. Journal of Instrumentation, 2022, 17, C01007.	1.2	1
3	Spectral Response of UV Photodetectors for Barium Fluoride Crystal Readout. IEEE Transactions on Nuclear Science, 2022, 69, 958-964.	2.0	3
4	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
5	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
6	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
7	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	1
8	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 290.	3.9	18
9	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
10	Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
11	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
12	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
13	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
14	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
15	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	5
16	Measurement of the inclusive $\overline{t}t$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
17	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	2
18	Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	4.7	4

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19	Observation of $B^0 \rightarrow \mu^+ \mu^- (2S) K^0_{\text{short}}$ and $B^0_{\text{short}} \rightarrow \mu^+ \mu^- (2S) K^0_{\text{short}}$ decays. European Physical Journal C, 2022, 82, .	3.9	1
20	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s}=13, \text{ext } \{Te\} \text{ext } \{V\}$ TeV. European Physical Journal C, 2021, 81, 13.	3.9	33
21	Search for top squark pair production using dilepton final states in pp collision data collected at $\sqrt{s}=13, \text{ext } \{TeV\}$ TeV. European Physical Journal C, 2021, 81, 3.	3.9	33
22	Measurements of $pp \rightarrow ZZ$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13, \text{ext } \{TeV\}$ TeV. European Physical Journal C, 2021, 81, 200.	3.9	24
23	UV-Visible reflectance of common light reflectors and their degradation after an ionization dose up to 100 Mrad. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 992, 165043.	1.6	1
24	Development and validation of HERWIG tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	3.9	12
25	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13, \text{ext } \{TeV\}$ TeV. European Physical Journal C, 2021, 81, 378.	3.9	40
26	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{TeV\}$ TeV. European Physical Journal C, 2021, 81, 488.	3.9	35
27	Gamma-Ray- and Neutron-Induced Photocurrent and Readout Noise in LYSO+SiPM Packages. IEEE Transactions on Nuclear Science, 2021, 68, 1244-1250.	2.0	2
28	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2021, 2021, 1.	4.7	27
29	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{TeV\}$ TeV. European Physical Journal C, 2021, 81, 629.	3.9	18
30	Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{TeV\}$ TeV. European Physical Journal C, 2021, 81, 688.	3.9	9
31	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{TeV\}$ TeV. European Physical Journal C, 2021, 81, 723.	3.9	19
32	Recent progress on inorganic scintillators for future HEP experiments. , 2021, , .		0
33	Measurements of angular distance and momentum ratio distributions in three-jet and Z + two-jet final states in pp collisions. European Physical Journal C, 2021, 81, 852.	3.9	2
34	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{TeV\}$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
35	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{TeV\}$ TeV. European Physical Journal C, 2021, 81, 970.	3.9	18
36	Radiation Damage Effects. , 2021, , 687-711.		0

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37	LuAG ceramic scintillators for future HEP experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161723.	1.6	21
38	Feasibility of hard X-ray imaging using monolithic active pixel sensors (MAPS). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161243.	1.6	0
39	Alkali-free Ce-doped and co-doped fluorophosphate glasses for future HEP experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 954, 161665.	1.6	5
40	Design and status of the Mu2e crystal calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162140.	1.6	0
41	BaF ₂ :Y and ZnO:Ga crystal scintillators for GHz hard X-ray imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 950, 162767.	1.6	15
42	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
43	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
44	Construction status of the Mu2e crystal calorimeter. Journal of Instrumentation, 2020, 15, C09035-C09035.	1.2	0
45	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
46	Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	21
47	Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
48	Neutron-Induced Radiation Damage in LYSO, BaF ₂ , and PWO Crystals. IEEE Transactions on Nuclear Science, 2020, 67, 1086-1092.	2.0	12
49	Spatial Resolution of an Inorganic Crystal-Based Hard X-Ray Imager. IEEE Transactions on Nuclear Science, 2020, 67, 1014-1019.	2.0	5
50	Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in $\sqrt{s_{NN}} = 2.76$ and 5.02 TeV collisions. European Physical Journal C, 2020, 80, 534.	3.9	14
51	Proton radiation effects on carrier transport in diamond radiation detectors. AIP Advances, 2020, 10, 025004.	1.3	8
52	Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 75.	3.9	78
53	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 $\sqrt{s} = 13$ TeV. European Physical Journal C, 2020, 80, 3.	3.9	70
54	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

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55	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
56	Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s} = 8$ TeV with the CMS and TOTEM experiments. European Physical Journal C, 2020, 80, 1164.	3.9	5
57	Radiation Damage Effects. , 2020, , 1-25.		1
58	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
59	Electron beam test of the large area Mu2e calorimeter prototype. Journal of Physics: Conference Series, 2019, 1162, 012027.	0.4	3
60	Neutron-Induced Radiation Damage in BaF ₂ , LYSO/LFS and PWO Crystals. Journal of Physics: Conference Series, 2019, 1162, 012020.	0.4	6
61	Development of Yttrium-Doped BaF ₂ Crystals for Future HEP Experiments. IEEE Transactions on Nuclear Science, 2019, 66, 1854-1860.	2.0	13
62	La- and La/Ce-Doped BaF ₂ Crystals for Future HEP Experiments at the Energy and Intensity Frontiers Part II. IEEE Transactions on Nuclear Science, 2019, 66, 512-518.	2.0	5
63	La- and La/Ce-Doped BaF ₂ Crystals for Future HEP Experiments at the Energy and Intensity Frontiers Part I. IEEE Transactions on Nuclear Science, 2019, 66, 506-511.	2.0	3
64	Ultrafast inorganic scintillator-based front imager for Gigahertz Hard X-ray imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 940, 223-229.	1.6	25
65	Search for the pair production of light top squarks in the $e^{\pm} \gamma$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	5
66	From optical to X-ray ghost imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 935, 173-177.	1.6	6
67	Ultrafast and Radiation Hard Inorganic Scintillators for Future HEP Experiments. Journal of Physics: Conference Series, 2019, 1162, 012022.	0.4	21
68	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
69	Measurement of the $\sigma_{\text{t}} \overline{\sigma_{\text{t}}}$ 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
70	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
71	Search for $\overline{\text{t}}\text{t}\text{H}$ production in the $\text{H} \rightarrow \text{b}\overline{\text{b}}$ decay channel with leptonic $\overline{\text{t}}\text{t}$ decays in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	28
72	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

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73	Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	18
74	The Mu2e calorimeter: Quality assurance of production crystals and SiPMs. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 154-155.	1.6	3
75	Design and test of the Mu2e undoped CsI + SiPM crystal calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 94-97.	1.6	6
76	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
77	Quality Assurance on Undoped CsI Crystals for the Mu2e Experiment. IEEE Transactions on Nuclear Science, 2018, 65, 752-757.	2.0	11
78	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
79	Measurements of the $\sigma(\text{pp} \rightarrow \text{Z}\gamma\text{Z})$ production cross section and the $\text{BR}(\text{Z} \rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at. European Physical Journal C, 2018, 78, 165.	3.9	52
80	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
81	Design and Status of the Mu2e Crystal Calorimeter. IEEE Transactions on Nuclear Science, 2018, 65, 2073-2080.	2.0	21
82	Ultrafast Inorganic Scintillators for Gigahertz Hard X-Ray Imaging. IEEE Transactions on Nuclear Science, 2018, 65, 2097-2104.	2.0	25
83	Proton-Induced Radiation Damage in BaF_2 , LYSO, and PWO Crystal Scintillators. IEEE Transactions on Nuclear Science, 2018, 65, 1018-1024.	2.0	21
84	Slow Scintillation Suppression in Yttrium Doped BaF_2 Crystals. IEEE Transactions on Nuclear Science, 2018, 65, 2147-2151.	2.0	20
85	Search for $\text{t}\bar{\text{t}}\text{H}$ production in the all-jet final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
86	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
87	Temporal Response of Fast and Ultrafast Inorganic Scintillators. , 2018, , .		0
88	Improvement of Scintillation Performance in Large Size Yttrium Doped BaF_2 Crystals. , 2018, , .		0
89	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
90	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

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91	Search for $Z\hat{1}^3$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	17
92	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
93	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
94	Search for a heavy resonance decaying into a Z boson and a Z or W boson in $2\hat{a}, 2q$ final states at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	8
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 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
97	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
98	Search for dark matter produced in association with a Higgs boson decaying to $\hat{1}^3$ or $\hat{1}, +\hat{1}, \hat{a}'$ at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	12
99	Search for a heavy resonance decaying into a Z boson and a vector boson in the $u\overline{u}q\overline{q}$ final state. Journal of High Energy Physics, 2018, 2018, 1.	4.7	10
100	Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $\hat{1}$, leptons at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	38
101	Slow Scintillation Component and Radiation-Induced Readout Noise in Undoped CsI Crystals. IEEE Transactions on Nuclear Science, 2018, 65, 2716-2723.	2.0	2
102	Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	20
103	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
104	Measurement of the inelastic proton-proton cross section at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	62
105	Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1.	4.7	86
106	Needs, Trends, and Advances in Inorganic Scintillators. IEEE Transactions on Nuclear Science, 2018, 65, 1977-1997.	2.0	305
107	The next generation of crystal detectors. Radiation Detection Technology and Methods, 2018, 2, 1.	0.8	5
108	Review of Particle Physics. Physical Review D, 2018, 98, .	4.7	5,390

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109	Applications of Very Fast Inorganic Crystal Scintillators in Future HEP Experiments. Springer Proceedings in Physics, 2018, , 70-75.	0.2	3
110	Measurements of the $(\mathrm{p}\mathrm{p}\rightarrow\mathrm{Z}\mathrm{Z})$ production cross section and the $(\mathrm{Z}\rightarrow 4\ell)$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. , 2018, 78, 1.		3
111	Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $s = 8 \sqrt{s}=8 \text{ TeV}$ and cross section ratios to 2.76 and 7 TeV. Journal of High Energy Physics, 2017, 2017, 1.	4.7	54
112	Proton-Induced Radiation Damage in Fast Crystal Scintillators. IEEE Transactions on Nuclear Science, 2017, 64, 665-672.	2.0	12
113	Charged-particle nuclear modification factors in PbPb and pPb collisions at $s_{NN} = 5.02 \sqrt{s_{\mathrm{N};\mathrm{N}}}=5.02 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	103
114	The calorimeter of the Mu2e experiment at Fermilab. Journal of Instrumentation, 2017, 12, C01061-C01061.	1.2	6
115	Searches for pair production of third-generation squarks in $\sqrt{s}=13 \text{ TeV}$ collisions. European Physical Journal C, 2017, 77, 327.	3.9	32
116	Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	22
117	Performance of Crystal Scintillators in a Severe Radiation Environment Caused by Protons. Journal of Physics: Conference Series, 2017, 928, 012029.	0.4	0
118	Search for top squark pair production in pp collisions at $\sqrt{s}=13 \text{ TeV}$ using single lepton events. Journal of High Energy Physics, 2017, 2017, 1.	4.7	31
119	Measurement of the $t\bar{t}\rightarrow\ell\bar{\ell}$ production cross section using events with one lepton and at least one jet in pp collisions at $\sqrt{s}=13 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	15
120	Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s}=8 \text{ TeV}$. Journal of High Energy Physics, 2017, 2017, 1.	4.7	29
121	Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s}=13 \text{ TeV}$. European Physical Journal C, 2017, 77, 636.	3.9	38
122	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
123	Performances of Crystal Scintillators in a Severe Radiation Environment Caused by Gamma Rays. Journal of Physics: Conference Series, 2017, 928, 012032.	0.4	1
124	A Very Compact Crystal Shashlik Electromagnetic Calorimeter for Future HEP Experiments. Journal of Physics: Conference Series, 2017, 928, 012015.	0.4	8
125	Very fast inorganic crystal scintillators. , 2017, , .		3
126	Proton-induced radiation damage in BGO, LFS, PWO and a LFS/W/Quartz capillary shashlik cell. , 2016, , .		1

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127	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
128	Monitoring LSO/LYSO Crystal Calorimeters. IEEE Transactions on Nuclear Science, 2016, 63, 605-611.	2.0	2
129	Proton induced radiation damage in fast crystal scintillators. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 726-728.	1.6	9
130	Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	7
131	Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	13
132	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
133	Slow scintillation component and radiation induced readout noise in pure CsI crystals. , 2016, , .		4
134	Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
135	Measurement of the $t\bar{t} \rightarrow \gamma\gamma$ production cross section in the $e\bar{e}\gamma\gamma$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	41
136	Design and status of the Mu2e electromagnetic calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 695-698.	1.6	20
137	Event generator tunes obtained from underlying event and multiparton scattering measurements. European Physical Journal C, 2016, 76, 155.	3.9	499
138	Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into l, ν leptons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	4.7	19
139	Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 13.	3.9	62
140	Gamma-Ray Induced Radiation Damage Up to 340 Mrad in Various Scintillation Crystals. IEEE Transactions on Nuclear Science, 2016, 63, 612-619.	2.0	36
141	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
142	The Next Generation of Crystal Detectors. Journal of Physics: Conference Series, 2015, 587, 012055.	0.4	14
143	Characterization of Three LYSO Crystal Batches. Journal of Physics: Conference Series, 2015, 587, 012065.	0.4	0
144	Monitoring LSO/LYSO Crystal Based Calorimeters. Journal of Physics: Conference Series, 2015, 587, 012066.	0.4	0

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145	BSO Crystals for the HHCAL Detector Concept. Journal of Physics: Conference Series, 2015, 587, 012064.	0.4	3
146	Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 \sqrt{s} TeV. European Physical Journal C, 2015, 75, 212.	3.9	541
147	The next generation of crystal detectors. , 2015, , .		34
148	Thin scintillators for ultrafast hard X-ray imaging. Proceedings of SPIE, 2015, , .	0.8	3
149	Measurements of the $Z Z$ production cross sections in the $2u \rightarrow 2l + \frac{1}{2}$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV. European Physical Journal C, 2015, 75, 511.	3.9	32
150	Characterization of three LYSO crystal batches. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 784, 105-110.	1.6	6
151	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
152	Observation of the diphoton decay of the Higgs boson and measurement of its properties. European Physical Journal C, 2014, 74, 3076.	3.9	342
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