

Walter J M Snoeys

List of Publications by Year in descending order

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Version: 2024-02-01

305
papers

8,964
citations

71102

41
h-index

54911

84
g-index

308
all docs

308
docs citations

308
times ranked

8154
citing authors

#	ARTICLE	IF	CITATIONS
1	The LHCb Detector at the LHC. Journal of Instrumentation, 2008, 3, S08005-S08005.	1.2	969
2	The ALICE experiment at the CERN LHC. Journal of Instrumentation, 2008, 3, S08002-S08002.	1.2	811
3	Radiation tolerant VLSI circuits in standard deep submicron CMOS technologies for the LHC experiments: practical design aspects. IEEE Transactions on Nuclear Science, 1999, 46, 1690-1696.	2.0	321
4	A readout chip for a 64/spl times/64 pixel matrix with 15-bit single photon counting. IEEE Transactions on Nuclear Science, 1998, 45, 751-753.	2.0	238
5	First measurement of the total proton-proton cross-section at the LHC energy of $\sqrt{s} = 7, \text{TeV}$. Europhysics Letters, 2011, 96, 21002.	2.0	236
6	Measurement of proton-proton elastic scattering and total cross-section at $\sqrt{s} = 7, \text{TeV}$. Europhysics Letters, 2013, 101, 21002.	2.0	197
7	Luminosity-Independent Measurement of the Proton-Proton Total Cross Section at $\sqrt{s} = 7, \text{TeV}$. Physical Review Letters, 2013, 111, 012001.	7.8	187
8	Luminosity-independent measurements of total, elastic and inelastic cross-sections at $\sqrt{s} = 7, \text{TeV}$. Europhysics Letters, 2013, 101, 21004.	2.0	176
9	Technical Design Report for the Upgrade of the ALICE Inner Tracking System. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 087002.	3.6	153
10	Strangeness enhancement at mid-rapidity in Pb-Pb collisions at 158 A GeV/c. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 449, 401-406.	4.1	150
11	Proton-proton elastic scattering at the LHC energy of $\sqrt{s} = 7, \text{TeV}$. Europhysics Letters, 2011, 95, 41001.	2.0	150
12	A process modification for CMOS monolithic active pixel sensors for enhanced depletion, timing performance and radiation tolerance. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 871, 90-96.	1.6	132
13	Layout techniques to enhance the radiation tolerance of standard CMOS technologies demonstrated on a pixel detector readout chip. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 439, 349-360.	1.6	131
14	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, \text{TeV}$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	3.9	123
15	Enhancement of central $\hat{\eta}$, $\hat{\xi}$ and yields in Pb-Pb collisions at 158 A GeV/c. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 433, 209-216.	4.1	116
16	Evidence for non-exponential elastic proton-proton differential cross-section at low $ t $ and $\sqrt{s} = 13, \text{TeV}$ by TOTEM. Nuclear Physics B, 2015, 899, 527-546.	3.5	116
17	The TOTEM Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08007-S08007.	1.2	108
18	Enhancement of hyperon production at central rapidity in 158 A GeV/c Pb-Pb collisions. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 427-441.	3.6	98

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19	Upgrade of the ALICE Experiment: Letter Of Intent. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 087001.	3.6	97
20	Measurement of elastic pp scattering at $\sqrt{s} = 8 \text{ TeV}$ in the Coulombâ€nuclear interference region: determination of the \mathbf{ho} -parameter and the total cross-section. European Physical Journal C, 2016, 76, 1.	3.9	88
21	Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of Instrumentation, 2020, 15, P10017-P10017.	1.2	84
22	Search for production of four top quarks in final states with same-sign or multiple leptons in protonâ€proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2020, 80, 75.	3.9	78
23	LHC1: A semiconductor pixel detector readout chip with internal, tunable delay providing a binary pattern of selected events. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 383, 55-63.	1.6	75
24	Energy dependence of hyperon production in nucleusâ€nucleus collisions at SPS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 595, 68-74.	4.1	71
25	Measurement of proton-proton inelastic scattering cross-section at $\sqrt{s} = 7 \text{ TeV}$. Europhysics Letters, 2013, 101, 21003.	2.0	70
26	First measurement of elastic, inelastic and total cross-section at $\sqrt{s} = 13 \text{ TeV}$ by TOTEM and overview of cross-section data at LHC energies. European Physical Journal C, 2019, 79, 1.	3.9	70
27	Searches for physics beyond the standard model with the M_{T2} variable in hadronic final states with and without disappearing tracks in protonâ€proton collisions at $\sqrt{s} = 13 \text{ TeV}$. European Physical Journal C, 2020, 80, 3.	3.9	70
28	First determination of the \mathbf{ho} parameter at $\sqrt{s} = 13 \text{ TeV}$: probing the existence of a colourless C-odd three-gluon compound state. European Physical Journal C, 2019, 79, 1.	3.9	69
29	Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2020, 2020, 1.	4.7	66
30	Search for resonant and nonresonant new phenomena in high-mass dilepton final states at $\sqrt{s} = 13 \text{ TeV}$. Journal of High Energy Physics, 2021, 2021, 1.	4.7	62
31	A prototype monolithic pixel detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 342, 59-77.	1.6	60
32	First tests of a novel radiation hard CMOS sensor process for Depleted Monolithic Active Pixel Sensors. Journal of Instrumentation, 2017, 12, P06008-P06008.	1.2	59
33	Simulations of CMOS pixel sensors with a small collection electrode, improved for a faster charge collection and increased radiation tolerance. Journal of Instrumentation, 2019, 14, C05013-C05013.	1.2	54
34	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
35	Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.	4.7	54
36	Deep submicron CMOS technologies for the LHC experiments. Nuclear Physics, Section B, Proceedings Supplements, 1999, 78, 625-634.	0.4	52

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37	Monolithic pixel detectors for high energy physics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 731, 125-130.	1.6	51
38	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
39	Monolithic pixel development in TowerJazz 180 nm CMOS for the outer pixel layers in the ATLAS experiment. Journal of Instrumentation, 2018, 13, C01023-C01023.	1.2	49
40	A pixel readout chip for 10-30 MRad in standard 0.25 μm CMOS. IEEE Transactions on Nuclear Science, 1999, 46, 156-160.	2.0	46
41	Elastic differential cross-section measurement at $\sqrt{s} = 13$ TeV by TOTEM. European Physical Journal C, 2019, 79, 1.	3.9	46
42	A new uniaxial accelerometer in silicon based on the piezjunction effect. IEEE Transactions on Electron Devices, 1988, 35, 764-770.	3.0	43
43	Measurement of properties of $B_{\text{u}}^0 \rightarrow \tau^+ \tau^-$ decays and search for $B_{\text{u}}^0 \rightarrow \tau^+ \tau^-$ with the CMS experiment. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
44	Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	41
45	Monolithic active pixel sensor development for the upgrade of the ALICE inner tracking system. Journal of Instrumentation, 2013, 8, C12041-C12041.	1.2	40
46	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.	3.9	40
47	Pixel readout electronics development for the ALICE pixel vertex and LHCb RICH detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 465, 176-189.	1.6	39
48	PIN detector arrays and integrated readout circuitry on high-resistivity float-zone silicon. IEEE Transactions on Electron Devices, 1994, 41, 903-912.	3.0	38
49	<title>Performance of a 4096-pixel photon counting chip</title> . , 1998, , .		37
50	Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	37
51	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.	4.7	36
52	Mini-MALTA: radiation hard pixel designs for small-electrode monolithic CMOS sensors for the High Luminosity LHC. Journal of Instrumentation, 2020, 15, P02005-P02005.	1.2	35
53	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
54	Measurement of the forward charged-particle pseudorapidity density in pp collisions at $\sqrt{s} = 7$ TeV with the TOTEM experiment. Europhysics Letters, 2012, 98, 31002.	2.0	34

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55	Double Diffractive Cross-Section Measurement in the Forward Region at the LHC. Physical Review Letters, 2013, 111, 262001.	7.8	34
56	First operation of a hybrid photon detector prototype with electrostatic cross-focussing and integrated silicon pixel readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 449, 48-59.	1.6	33
57	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s}=13$ TeV. European Physical Journal C, 2021, 81, 13.	3.9	33
58	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
59	Second generation monolithic full-depletion radiation sensor with integrated CMOS circuitry. , 2010, , .		32
60	Integrated circuits for particle physics experiments. IEEE Journal of Solid-State Circuits, 2000, 35, 2018-2030.	5.4	31
61	A multi-dimensional search for new heavy resonances decaying to boosted W boson pairs in the dijet final state at $\sqrt{s}=13$ TeV. European Physical Journal C, 2020, 80, 237.	3.9	31
62	First beam test results from a monolithic silicon pixel detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 326, 144-149.	1.6	30
63	Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer. Journal of High Energy Physics, 2018, 2018, 1.	4.7	29
64	Elastic differential cross-section $d\sigma/dt$ at $\sqrt{s}=2.76$ TeV and implications on the existence of a colourless C-odd three-gluon compound state. European Physical Journal C, 2020, 80, 1.	3.9	29
65	Planar edgeless silicon detectors for the TOTEM experiment. IEEE Transactions on Nuclear Science, 2005, 52, 1899-1902.	2.0	28
66	Strangeness enhancements at central rapidity in 40 A GeV/c Pb-Pb collisions. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 045105.	3.6	28
67	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
68	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
69	Determination of the number of wounded nucleons in Pb+Pb collisions at 158 A GeV/c. European Physical Journal C, 2000, 18, 57-63.	3.9	27
70	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
71	Search for new neutral Higgs bosons through the $H \rightarrow Z A \rightarrow \ell \ell \gamma \gamma \mathcal{B} \overline{\mathcal{B}}$ process in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 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	Pixel readout chips in deep submicron CMOS for ALICE and LHCb tolerant to 10Mrad and beyond. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 466, 366-375.	1.6	26
74	Low-power priority Address-Encoder and Reset-Decoder data-driven readout for Monolithic Active Pixel Sensors for tracker system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 785, 61-69.	1.6	26
75	Front end optimization for the monolithic active pixel sensor of the ALICE Inner Tracking System upgrade. Journal of Instrumentation, 2016, 11, C02042-C02042.	1.2	26
76	Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	26
77	Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	26
78	MALTA: an asynchronous readout CMOS monolithic pixel detector for the ATLAS High-Luminosity upgrade. Journal of Instrumentation, 2019, 14, C06019-C06019.	1.2	25
79	Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
80	Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	25
81	Determination of the event centrality in the WA97 and NA57 experiments. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, 391-396.	3.6	24
82	VFAT2 : A front-end system on chip providing fast trigger information and digitized data storage for the charge sensitive readout of multi-channel silicon and gas particle detectors.. , 2008, , .		24
83	Measurements of $\sigma(\text{pp} \rightarrow \text{ZZ})$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 200.	3.9	24
84	A new integrated pixel detector for high energy physics. IEEE Transactions on Nuclear Science, 1992, 39, 1263-1269.	2.0	23
85	Depleted fully monolithic CMOS pixel detectors using a column based readout architecture for the ATLAS Inner Tracker upgrade. Journal of Instrumentation, 2018, 13, C03039-C03039.	1.2	23
86	Search for a light pseudoscalar Higgs boson in the boosted $\tau\tau$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	23
87	Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s}=13, \{\text{TeV}\}$. European Physical Journal C, 2020, 80, 752.	3.9	23
88	First results from the ALICE silicon pixel detector prototype. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 501, 111-118.	1.6	22
89	Search for direct pair production of supersymmetric partners to the τ_{up}^{\pm} lepton in proton-proton collisions at $\sqrt{s}=13, \{\text{TeV}\}$. European Physical Journal C, 2020, 80, 189.	3.9	22
90	Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13, \{\text{TeV}\}$. European Physical Journal C, 2020, 80, 370.	3.9	22

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91	Central-to-peripheral nuclear modification factors in Pb–Pb collisions at $\sqrt{s_{NN}}=17.3$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 623, 17-25.	4.1	21
92	Elastic Scattering and Total Cross-Section in p+p Reactions. Progress of Theoretical Physics Supplement, 2012, 193, 180-183.	0.1	21
93	CMOS monolithic active pixel sensors for high energy physics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 765, 167-171.	1.6	21
94	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
95	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
96	Gallium arsenide pixel detectors for medical imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 395, 148-151.	1.6	20
97	Performance of hybrid photon detector prototypes with 80% active area for the rich counters of LHCb. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 442, 164-170.	1.6	20
98	Measurements with Si and GaAs pixel detectors bonded to photon counting readout chips. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 466, 87-94.	1.6	20
99	First results on strange baryon production from the NA57 experiment. Nuclear Physics A, 2002, 698, 118-126.	1.5	20
100	PERFORMANCE OF THE TOTEM DETECTORS AT THE LHC. International Journal of Modern Physics A, 2013, 28, 1330046.	1.5	20
101	Diamond detectors for the TOTEM timing upgrade. Journal of Instrumentation, 2017, 12, P03007-P03007.	1.2	20
102	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
103	Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on anomalous quartic couplings. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
104	A search for the standard model Higgs boson decaying to charm quarks. Journal of High Energy Physics, 2020, 2020, 1.	4.7	20
105	Silicon pixel detectors for tracking in NA57. Nuclear Physics A, 1999, 661, 716-720.	1.5	19
106	An introduction to deep submicron CMOS for vertex applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 473, 140-145.	1.6	19
107	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton–proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 723.	3.9	19
108	Use of silicon and GaAs pixel detectors for digital autoradiography. IEEE Transactions on Nuclear Science, 1997, 44, 929-933.	2.0	18

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109	Final size planar edgeless silicon detectors for the TOTEM experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 563, 41-44.	1.6	18
110	3D Active Edge Silicon Detector Tests With 120 GeV Muons. IEEE Transactions on Nuclear Science, 2009, 56, 505-518.	2.0	18
111	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 629.	3.9	18
112	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 970.	3.9	18
113	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2022, 82, 290.	3.9	18
114	X-ray imaging using a hybrid photon counting GaAs pixel detector. Nuclear Physics, Section B, Proceedings Supplements, 1999, 78, 491-496.	0.4	16
115	Study of the transverse mass spectra of strange particles in Pb-Pb collisions at 158A GeV/c. Journal of Physics C: Nuclear and Particle Physics, 2004, 30, 823-840.	3.6	16
116	Construction and characterization of a 117 cm ² /silicon pixel detector. IEEE Transactions on Nuclear Science, 1995, 42, 413-418.	2.0	15
117	iMPACT: An Innovative Tracker and Calorimeter for Proton Computed Tomography. IEEE Transactions on Radiation and Plasma Medical Sciences, 2018, 2, 345-352.	3.7	15
118	The Monopix chips: depleted monolithic active pixel sensors with a column-drain read-out architecture for the ATLAS Inner Tracker upgrade. Journal of Instrumentation, 2019, 14, C06006-C06006.	1.2	15
119	CMOS monolithic pixel sensors based on the column-drain architecture for the HL-LHC upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 604-607.	1.6	15
120	Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\tau\mu$, and $e\mu$, in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	15
121	Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	15
122	Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	15
123	Hyperon yields in PbPb collisions from NA57 experiment. Nuclear Physics A, 2003, 715, 140c-150c.	1.5	14
124	Characteristics of edgeless silicon detectors for the Roman Pots of the TOTEM experiment at the LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 604, 242-245.	1.6	14
125	LePIX: First results from a novel monolithic pixel sensor. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 718, 288-291.	1.6	14
126	Radiation hardness and detector performance of new 180nm CMOS MAPS prototype test structures developed for the upgrade of the ALICE Inner Tracking System. , 2013, , .		14

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127	Search for electroweak production of a vector-like T quark using fully hadronic final states. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
128	Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	14
129	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
130	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
131	Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
132	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
133	Multiplicity of charged particles in Pb-Pb collisions at SPS energies. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, 321-335.	3.6	13
134	LHC optics measurement with proton tracks detected by the Roman pots of the TOTEM experiment. New Journal of Physics, 2014, 16, 103041.	2.9	13
135	Design and characterization of novel monolithic pixel sensors for the ALICE ITS upgrade. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 765, 177-182.	1.6	13
136	Measurement of the forward charged particle pseudorapidity density in pp collisions at $\sqrt{s} = 8$ TeV using a displaced interaction point. European Physical Journal C, 2015, 75, 1.	3.9	13
137	Measurement results of the MALTA monolithic pixel detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162404.	1.6	13
138	Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2019, 2019, 1.	4.7	13
139	Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	13
140	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
141	Performance of a hybrid photon detector prototype with electrostatic cross-focussing and integrated silicon pixel readout for Cherenkov ring detection. Nuclear Physics, Section B, Proceedings Supplements, 1999, 78, 360-365.	0.4	12
142	The TOTEM detector at LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 62-66.	1.6	12
143	MAPS development for the ALICE ITS upgrade. Journal of Instrumentation, 2015, 10, C03030-C03030.	1.2	12
144	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

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145	Investigation into the event-activity dependence of $\tilde{\chi}^0(nS)$ relative production in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	4.7	12
146	Search for new physics in top quark production with additional leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV using effective field theory. Journal of High Energy Physics, 2021, 2021, 1.	4.7	12
147	Development and validation of HERWIG ² tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	3.9	12
148	Radiation hard monolithic CMOS sensors with small electrodes for High Luminosity LHC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 986, 164381.	1.6	12
149	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
150	Readout for a 64 \times 64 pixel matrix with 15-bit single photon counting. , 0, , .		11
151	\tilde{b} , \tilde{z} and $\tilde{\chi}^0$ production in PbPb collisions at 158 A GeV/c. Nuclear Physics A, 1998, 638, 115c-124c.	1.5	11
152	A novel source-drain follower for monolithic active pixel sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 831, 147-155.	1.6	11
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