

Burt Holzman

List of Publications by Year in descending order

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119
papers

15,236
citations

87888

38
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30922

102
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124
all docs

124
docs citations

124
times ranked

10570
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 716, 30-61.	4.1	6,177
2	The CMS experiment at the CERN LHC. Journal of Instrumentation, 2008, 3, S08004-S08004.	1.2	2,192
3	The PHOBOS perspective on discoveries at RHIC. Nuclear Physics A, 2005, 757, 28-101.	1.5	1,881
4	CMS Physics Technical Design Report, Volume II: Physics Performance. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 995-1579.	3.6	683
5	System Size, Energy, Pseudorapidity, and Centrality Dependence of Elliptic Flow. Physical Review Letters, 2007, 98, 242302.	7.8	303
6	Significance of the Fragmentation Region in Ultrarelativistic Heavy-Ion Collisions. Physical Review Letters, 2003, 91, 052303.	7.8	268
7	Charged-particle multiplicity and pseudorapidity distributions measured with the PHOBOS detector in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2011, 106, 022301.	2.9	215
8	Centrality Dependence of Charged-Hadron Transverse-Momentum Spectra in Au+Au Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2003, 91, 072302.	7.8	201
9	The Pilot Way to Grid Resources Using glideinWMS. , 2009, , .		201
10	Centrality and pseudorapidity dependence of elliptic flow for charged hadrons in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review C, 2005, 72, .	2.9	176
11	High Transverse Momentum Triggered Correlations over a Large Pseudorapidity Acceptance in Au+Au Collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2010, 104, 062301.	7.8	167
12	Charged-Particle Pseudorapidity Density Distributions from Au+Au Collisions at $\sqrt{s_{NN}} = 130$ GeV. Physical Review Letters, 2001, 87, 102303.	7.8	163
13	Charged hadron transverse momentum distributions in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 578, 297-303.	4.1	140
14	CMS Physics Technical Design Report: Addendum on High Density QCD with Heavy Ions. Journal of Physics G: Nuclear and Particle Physics, 2007, 34, 2307-2455.	3.6	136
15	Baryon Rapidity Loss in Relativistic Au+Au Collisions. Physical Review Letters, 2001, 86, 1970-1973.	7.8	113
16	Energy Dependence of Elliptic Flow over a Large Pseudorapidity Range in Au+Au Collisions at the BNL Relativistic Heavy Ion Collider. Physical Review Letters, 2005, 94, 122303.	7.8	107
17	Scaling of charged particle production in Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review C, 2005, 72, .	2.9	96
18	Pseudorapidity Distribution of Charged Particles in Au Collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review Letters, 2004, 93, 082301.	7.8	95

#	ARTICLE	IF	CITATIONS
19	The PHOBOS detector at RHIC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 499, 603-623.	1.6	92
20	A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider. Science, 2012, 338, 1569-1575.	12.6	85
21	A Roadmap for HEP Software and Computing R&D for the 2020s. Computing and Software for Big Science, 2019, 3, 1.	2.9	85
22	Charged-particle pseudorapidity distributions in Au+Au collisions at $\sqrt{s_{NN}}=62.4$ GeV. Physical Review C, 2006, 74, .	2.9	83
23	System size dependence of cluster properties from two-particle angular correlations in $\sqrt{s_{NN}}=62.4$ GeV Au+Au collisions. Physical Review Letters, 2006, 96, 212301.	2.9	81
24	Non-flow correlations and elliptic flow fluctuations in $\sqrt{s_{NN}}=62.4$ GeV Au+Au collisions. Physical Review Letters, 2006, 96, 212301.	2.9	65
25	Energy Dependence of Directed Flow over a Wide Range of Pseudorapidity in Au+Au Collisions at the BNL Relativistic Heavy Ion Collider. Physical Review Letters, 2006, 97, 012301.	7.8	62
26	Centrality Dependence of Charged Hadron Transverse Momentum Spectra in Au+Au Collisions from $\sqrt{s_{NN}}=62.4$ to 200 GeV. Physical Review Letters, 2005, 94, 082304.	7.8	59
27	Performance and operation of the CMS electromagnetic calorimeter. Journal of Instrumentation, 2010, 5, T03010-T03010.	1.2	59
28	Alignment of the CMS silicon tracker during commissioning with cosmic rays. Journal of Instrumentation, 2010, 5, T03009-T03009.	1.2	59
29	Identification and filtering of uncharacteristic noise in the CMS hadron calorimeter. Journal of Instrumentation, 2010, 5, T03014-T03014.	1.2	57
30	Event-by-Event Fluctuations of Azimuthal Particle Anisotropy in $\sqrt{s_{NN}}=62.4$ GeV Au+Au Collisions. Physical Review Letters, 2010, 104, 142301.	7.8	56
31	Forward-backward multiplicity correlations in $\sqrt{s_{NN}}=200$ GeV Au+Au collisions. Physical Review C, 2006, 74, .	2.9	54
32	Performance of CMS muon reconstruction in cosmic-ray events. Journal of Instrumentation, 2010, 5, T03022-T03022.	1.2	52
33	Pseudorapidity distributions of charged particles in d+Au and p+p collisions at $\sqrt{s_{NN}}=200$ GeV. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, S1133-S1137.	3.6	47
34	System Size and Centrality Dependence of Charged Hadron Transverse Momentum Spectra in Au+Au and Cu+Cu Collisions at $\sqrt{s_{NN}}=62.4$ and 200 GeV. Physical Review Letters, 2006, 96, 212301.	7.8	47
35	Cluster properties from two-particle angular correlations in p+p collisions at $\sqrt{s_{NN}}=200$ and 410 GeV. Physical Review C, 2007, 75, .	2.9	46
36	Antilambda Production in Au+Au Collisions at $\sqrt{s_{NN}}=11.7$ GeV/c. Physical Review Letters, 2001, 87, 242301.	7.8	43

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37	System Size, Energy, and Centrality Dependence of Pseudorapidity Distributions of Charged Particles in Relativistic Heavy-Ion Collisions. <i>Physical Review Letters</i> , 2009, 102, 142301.	7.8	43
38	Centrality and energy dependence of charged-particle multiplicities in heavy ion collisions in the context of elementary reactions. <i>Physical Review C</i> , 2006, 74, .	2.9	41
39	Flow and bose-einstein correlations in Au-Au collisions at RHIC. <i>Nuclear Physics A</i> , 2003, 715, 611c-614c.	1.5	38
40	Commissioning of the CMS experiment and the cosmic run at four tesla. <i>Journal of Instrumentation</i> , 2010, 5, T03001-T03001.	1.2	37
41	Performance of the CMS hadron calorimeter with cosmic ray muons and LHC beam data. <i>Journal of Instrumentation</i> , 2010, 5, T03012-T03012.	1.2	36
42	Precise mapping of the magnetic field in the CMS barrel yoke using cosmic rays. <i>Journal of Instrumentation</i> , 2010, 5, T03021-T03021.	1.2	36
43	FPGA-Accelerated Machine Learning Inference as a Service for Particle Physics Computing. <i>Computing and Software for Big Science</i> , 2019, 3, 1.	2.9	34
44	Identified hadron transverse momentum spectra in Au+Au collisions at $\sqrt{s_{NN}}=62.4$ GeV. <i>Physical Review C</i> , 2007, 75, .	2.9	29
45	Transverse momentum and rapidity dependence of Hanbury-Brownâ€Twiss correlations in Au+Au collisions at $\sqrt{s_{NN}}=62.4$ and 200 GeV. <i>Physical Review C</i> , 2006, 73, .	2.9	28
46	Flow in Au+Au collisions at RHIC. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2004, 30, S1243-S1246.	3.6	25
47	Measurement of the muon stopping power in lead tungstate. <i>Journal of Instrumentation</i> , 2010, 5, P03007-P03007.	1.2	25
48	Performance of the CMS drift tube chambers with cosmic rays. <i>Journal of Instrumentation</i> , 2010, 5, T03015-T03015.	1.2	24
49	Ratios of charged antiparticles to particles near midrapidity in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2003, 67, .	2.9	22
50	Charged antiparticle to particle ratios near midrapidity in p+p collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2005, 71, .	2.9	20
51	Performance of CMS hadron calorimeter timing and synchronization using test beam, cosmic ray, and LHC beam data. <i>Journal of Instrumentation</i> , 2010, 5, T03013-T03013.	1.2	20
52	HEPCloud, a New Paradigm for HEP Facilities: CMS Amazon Web Services Investigation. <i>Computing and Software for Big Science</i> , 2017, 1, 1.	2.9	20
53	Aligning the CMS muon chambers with the muon alignment system during an extended cosmic ray run. <i>Journal of Instrumentation</i> , 2010, 5, T03019-T03019.	1.2	19
54	Fine synchronization of the CMS muon drift-tube local trigger using cosmic rays. <i>Journal of Instrumentation</i> , 2010, 5, T03004-T03004.	1.2	18

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55	Calibration of the CMS drift tube chambers and measurement of the drift velocity with cosmic rays. Journal of Instrumentation, 2010, 5, T03016-T03016.	1.2	17
56	How much higher can HTCondor fly?. Journal of Physics: Conference Series, 2015, 664, 062014.	0.4	15
57	Global observations from PHOBOS. Nuclear Physics A, 2003, 715, 65c-74c.	1.5	14
58	GPU-Accelerated Machine Learning Inference as a Service for Computing in Neutrino Experiments. Frontiers in Big Data, 2020, 3, 604083.	2.9	14
59	The PHOBOS silicon pad sensors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 447, 257-263.	1.6	13
60	Identified particles in Au+Au collisions at GeV. Nuclear Physics A, 2003, 715, 510c-513c.	1.5	13
61	Universal behavior of charged particle production in heavy ion collisions. Nuclear Physics A, 2003, 715, 490c-493c.	1.5	12
62	Charged particle multiplicity fluctuations in Au+Au collisions at. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, S1377-S1380.	3.6	11
63	GPU coprocessors as a service for deep learning inference in high energy physics. Machine Learning: Science and Technology, 2021, 2, 035005.	5.0	11
64	Identified charged antiparticle to particle ratios near midrapidity in Cu+Cu collisions at $\sqrt{s_{NN}} = 2.9$ 200 GeV. Physical Review C, 2008, 77, .		10
65	Identified hadron spectra from PHOBOS. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, S1143-S1147.	3.6	8
66	Cloud Bursting with GlideinWMS: Means to satisfy ever increasing computing needs for Scientific Workflows. Journal of Physics: Conference Series, 2014, 513, 032069.	0.4	8
67	Production of \bar{J}/ψ mesons in Au+Au collisions at the AGS. Nuclear Physics A, 1999, 661, 506-509.	1.5	7
68	The PHOBOS experiment at the RHIC collider. Nuclear Physics A, 1999, 661, 690-693.	1.5	7
69	FPGAs-as-a-Service Toolkit (FaaSST)., 2020, , .		7
70	Strangeness production in Au + Au collisions at AGS energies. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, 301-309.	3.6	6
71	Strange hadron production at low transverse momenta. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, S93-S102.	3.6	6
72	Participant and spectator scaling of spectator fragments in Au + Au and Cu + Cu collisions at $\sqrt{s_{NN}} = 19.6$ and 22.4 GeV. Physical Review C, 2016, 94, .	2.9	6

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73	The PHOBOS silicon sensors. Nuclear Physics, Section B, Proceedings Supplements, 1999, 78, 245-251.	0.4	5
74	The PHOBOS Collaboration. Nuclear Physics A, 2009, 830, 967c.	1.5	5
75	CMS computing operations during run 1. Journal of Physics: Conference Series, 2014, 513, 032040.	0.4	5
76	Overview of results from PHOBOS experiment at RHIC. Journal of Physics G: Nuclear and Particle Physics, 2002, 28, 1801-1807.	3.6	4
77	The PHOBOS detector at RHIC. Nuclear Physics A, 2002, 698, 416-419.	1.5	4
78	The landscape of particle production: results from PHOBOS. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, S683-S691.	3.6	4
79	Rapidity and k_T dependence of HBT correlations in Au+Au collisions at 200 GeV with PHOBOS. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, S1049-S1052.	3.6	4
80	Experiences Using GlideinWMS and the Corral Frontend across Cyberinfrastructures. , 2011, , .		4
81	HEPCloud, an Elastic Hybrid HEP Facility using an Intelligent Decision Support System. EPJ Web of Conferences, 2019, 214, 03060.	0.3	4
82	An excitation function at the AGS: E917 " Probing the dynamics of heavy ion collisions. Nuclear Physics A, 1998, 638, 407c-410c.	1.5	3
83	Recent results from PHOBOS at RHIC. Brazilian Journal of Physics, 2004, 34, 829-832.	1.4	3
84	Using Amazon's Elastic Compute Cloud to dynamically scale CMS computational resources. Journal of Physics: Conference Series, 2011, 331, 062031.	0.4	3
85	End-To-End Solution for Integrated Workload and Data Management using GlideinWMS and Globus Online. Journal of Physics: Conference Series, 2012, 396, 032076.	0.4	3
86	Experience in using commercial clouds in CMS. Journal of Physics: Conference Series, 2017, 898, 052019.	0.4	3
87	Hardware-accelerated inference for real-time gravitational-wave astronomy. Nature Astronomy, 2022, 6, 529-536.	10.1	3
88	Results from experiment E917 for Au + Au collisions at the AGS. Nuclear Physics A, 1999, 661, 75-81.	1.5	2
89	How strange is PHOBOS? First RHIC physics results and future prospects. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, 659-669.	3.6	2
90	Evidence of final-state suppression of high-p $\sqrt{s_{NN}}$ hadrons in Au+Au collisions using $dA+Au$ measurements at RHIC. European Physical Journal C, 2004, 33, s606-s608.	3.9	2

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91	Elliptic flow in Au+Au collisions at RHIC. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S41-S47.	3.6	2
92	Use of glide-ins in CMS for production and analysis. Journal of Physics: Conference Series, 2010, 219, 072013.	0.4	2
93	Early experience on using glideinWMS in the cloud. Journal of Physics: Conference Series, 2011, 331, 062014.	0.4	2
94	The benefits and challenges of sharing glidein factory operations across nine time zones between OSG and CMS. Journal of Physics: Conference Series, 2012, 396, 032103.	0.4	2
95	glideinWMS experience with glexec. Journal of Physics: Conference Series, 2012, 396, 032101.	0.4	2
96	CMS multicore scheduling strategy. Journal of Physics: Conference Series, 2014, 513, 032074.	0.4	2
97	Virtual machine provisioning, code management, and data movement design for the Fermilab HEPCloud Facility. Journal of Physics: Conference Series, 2017, 898, 052041.	0.4	2
98	HPC resource integration into CMS Computing via HEPCloud. EPJ Web of Conferences, 2019, 214, 03031.	0.3	2
99	Particle production at the AGS: an excitation function. Nuclear Physics A, 1999, 661, 472-475.	1.5	1
100	A first look at Au+Au collisions at RHIC energies using the PHOBOS detector. Pramana - Journal of Physics, 2003, 60, 921-931.	1.8	1
101	Results from the PHOBOS experiment at RHIC. Nuclear Physics A, 2004, 734, 61-64.	1.5	1
102	Particle production in nuclear collisions over a broad centrality range from the PHOBOS experiment. European Physical Journal D, 2006, 56, A39-A52.	0.4	1
103	A METHOD FOR MEASURING ELLIPTIC FLOW FLUCTUATIONS WITH THE PHOBOS DETECTOR. International Journal of Modern Physics E, 2007, 16, 1852-1858.	1.0	1
104	The HEPCloud Facility: elastic computing for High Energy Physics – The NOvA Use Case. Journal of Physics: Conference Series, 2017, 898, 052014.	0.4	1
105	Intelligently-Automated Facilities Expansion with the HEPCloud Decision Engine. , 2018, , .		1
106	Implementation of Feldman-Cousins corrections and oscillation calculations in the HPC environment for the NOvA Experiment. EPJ Web of Conferences, 2019, 214, 05012.	0.3	1
107	FIRST RESULTS FROM THE PHOBOS EXPERIMENT AT THE RHIC COLLIDER. International Journal of Modern Physics A, 2001, 16, 1265-1267.	1.5	0
108	Recent results from PHOBOS at RHIC. Nuclear Physics A, 2003, 721, C227-C230.	1.5	0

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109	Low-p T spectra of identified charged particles in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions from PHOBOS experiment at RHIC. European Physical Journal C, 2004, 33, s600-s602.	3.9	0
110	Ultra-relativistic Au+Au and d+Au collisions: Experimental studies by PHOBOS. International Journal of Modern Physics A, 2005, 20, 4405-4411.	1.5	0
111	PHOBOS Overview. Journal of Physics: Conference Series, 2006, 50, 34-41.	0.4	0
112	Recent Results from PHOBOS. Acta Physica Hungarica A Heavy Ion Physics, 2006, 25, 499-506.	0.4	0
113	Strangeness measurements with the PHOBOS experiment. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, S69-S76.	3.6	0
114	Recent results from PHOBOS on particle production at high p T. European Physical Journal C, 2009, 61, 575-582.	3.9	0
115	Experience building and operating the CMS Tier-1 computing centres. Journal of Physics: Conference Series, 2010, 219, 072035.	0.4	0
116	CMS experience of running glideinWMS in High Availability mode. Journal of Physics: Conference Series, 2014, 513, 032086.	0.4	0
117	Nucleon-gold collisions at $\sqrt{s_{NN}} = 200$ GeV using tagged d+Au interactions in the PHOBOS detector. Physical Review C, 2015, 92, .		
118	Pooling the resources of the CMS Tier-1 sites. Journal of Physics: Conference Series, 2015, 664, 042056.	0.4	0
119	Hbt Studies with E917 at the Ags: a Status Report. , 1999, , 189-196.		0