Ivana Hrivnacova

List of Publications by Year in descending order

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66 papers	10,374 citations	186209 28 h-index	128225 60 g-index
66 all docs	66 docs citations	66 times ranked	12854 citing authors

#	Article	IF	Citations
1	A fixed-target programme at the LHC: Physics case and projected performances for heavy-ion, hadron, spin and astroparticle studies. Physics Reports, 2021, 911, 1-83.	10.3	28
2	Using multiple engines in the Virtual Monte Carlo package. EPJ Web of Conferences, 2020, 245, 02008.	0.1	1
3	Geant4 electromagnetic physics progress. EPJ Web of Conferences, 2020, 245, 02009.	0.1	4
4	The Virtual Geometry Model. EPJ Web of Conferences, 2020, 245, 02014.	0.1	0
5	New Developments in the VMC Project. EPJ Web of Conferences, 2020, 245, 02005.	0.1	0
6	Interfacing Geant4, Garfield++ and Degrad for the simulation of gaseous detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 935, 121-134.	0.7	15
7	Physics perspectives with AFTER@LHC (A Fixed Target ExpeRiment at LHC). EPJ Web of Conferences, 2018, 171, 10001.	0.1	4
8	Analysis Tools in Geant4 10.2 and 10.3. Journal of Physics: Conference Series, 2017, 898, 042018.	0.3	1
9	Recent developments in Geant4. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 835, 186-225.	0.7	2,327
10	Extending Geant4 Parallelism with external libraries (MPI, TBB) and its use on HPC resources. , 2015, , .		3
11	Geant4 VMC 3.0. Journal of Physics: Conference Series, 2015, 664, 072020.	0.3	0
12	J/ΐ^ production and nuclear effects in p-Pb collisions at $ sqrt{{{{mathrm{s}}_{mathrm{NN}}}}} $ = 5.02 TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	44
13	Integration of g4tools in Geant4. Journal of Physics: Conference Series, 2014, 513, 022014.	0.3	2
14	O²: A novel combined online and offline computing system for the ALICE Experiment after 2018. Journal of Physics: Conference Series, 2014, 513, 012037.	0.3	4
15	Measurement of inelastic, single- and double-diffraction cross sections in protonâ€“proton collisions at the LHC with ALICE. European Physical Journal C, 2013, 73, 2456.	1.4	202
16	Mid-rapidity anti-baryon to baryon ratios in pp collisions at $sqrt{s} = 0.9, 2.76mbox{ and }7mbox{ TeV}$ measured by ALICE. European Physical Journal C, 2013, 73, 1.	1.4	31
17	Multiplicity dependence of two-particle azimuthal correlations in pp collisions at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	1.6	18
18	Energy dependence of the transverse momentum distributions of charged particles in pp collisions measured by ALICE. European Physical Journal C, 2013, 73, 2662.	1.4	101

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19	Charmonium and e + e âˆ’ pair photoproduction at mid-rapidity in ultra-peripheral Pbâ€“Pb collisions at $sqrt{s_{mathrm{NN}}} = 2.76 mbox{TeV}$. European Physical Journal C, 2013, 73, 2617.	1.4	203
20	Photon and Î· production in p+Pb and p+C collisions at. Nuclear Physics A, 2013, 898, 14-23.	0.6	1
21	Underlying Event measurements in pp collisions at $ sqrt {s} = 0.9 $ and 7 TeV with the ALICE experiment at the LHC. Journal of High Energy Physics, 2012, 2012, 1.	1.6	31
22	Measurement of charm production at central rapidity in proton-proton collisions at $ sqrt {s} = 2.76;{ext{TeV}} $. Journal of High Energy Physics, 2012, 2012, 1.	1.6	115
23	Suppression of high transverse momentum D mesons in central Pb-Pb collisions at $ sqrt{{{s_{mathrm{NN}}}}}=2.76;mathrm{TeV} $. Journal of High Energy Physics, 2012, 2012, 1.	1.6	228
24	Measurement of prompt J/Ïˆ and beauty hadron production cross sections at mid-rapidity in pp collisions at $ sqrt{s}=7 $ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	54
25	Transverse sphericity of primary charged particles in minimum bias protonâ€“proton collisions at $mathbf{sqrt{s}=0.9},~mathbf{2.76}~mbox{and}~mathbf{7}~mbox{TeV}$. European Physical Journal C, 2012, 72, 1.	1.4	32
26	Production of Kâˆ—(892)0 and Ï•(1020) in pp collisions at $sqrt{s}=7 mathrm{TeV}$. European Physical Journal C, 2012, 72, 1.	1.4	111
27	The Geant4 Virtual Monte Carlo. Journal of Physics: Conference Series, 2012, 396, 022024.	0.3	1
28	Measurement of event background fluctuations for charged particle jet reconstruction in Pb-Pb collisions at $ sqrt {{{s_{ext{NN}}}}} = {2}{.76},{ext{TeV}} $. Journal of High Energy Physics, 2012, 2012, 1.	1.6	58
29	Measurement of charm production at central rapidity in proton-proton collisions at $ sqrt {s} = 7{ }TeV $. Journal of High Energy Physics, 2012, 2012, 1.	1.6	139
30	The ALICE Geant4 Simulation. Journal of Physics: Conference Series, 2011, 331, 032016.	0.3	2
31	Strange particle production in protonâ€“proton collisions at $sqrt{s}=0.9$ $mbox {${m TeV}$}$ with ALICE at the LHC. European Physical Journal C, 2011, 71, 1.	1.4	140
32	Production of pions, kaons and protons in pp collisions at $sqrt{s}= 900~mathrm{GeV}$ with ALICE at the LHC. European Physical Journal C, 2011, 71, 1.	1.4	209
33	Event-by-event charged-particle neutral fluctuations in <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.Physics Letters	1.5	17
34	First protonâ€“proton collisions at the LHC as observed withÂtheÂALICE detector: measurement of the charged-particle pseudorapidity density at $sqrt{s}=900$ ÂGeV. European Physical Journal C, 2010, 65, 111-125.	1.4	124
35	Charged-particle multiplicity measurement in protonâ€“proton collisions at $sqrt{s}=0.9$ and 2.36ÂTeV with ALICE at LHC. European Physical Journal C, 2010, 68, 89-108.	1.4	199
36	Charged-particle multiplicity measurement in protonâ€“proton collisions at $sqrt{s}=7$ÂTeV with ALICE at LHC. European Physical Journal C, 2010, 68, 345-354.	1.4	212

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37	Geometry and physics of the Geant4 toolkit for high and medium energy applications. Radiation Physics and Chemistry, 2009, 78, 859-873.	1.4	94
38	Suppression of High-pTNeutral Pion Production in CentralPb+PbCollisions atsNN=17.3â€‰â€‰GeVRelative top+Candp+PbCollisions. Physical Review Letters, 2008, 100, 242301.	2.9	22
39	The Geant4 virtual Monte Carlo. Journal of Physics: Conference Series, 2008, 119, 032025.	0.3	5
40	The virtual geometry model. Journal of Physics: Conference Series, 2008, 119, 042016.	0.3	7
41	Geant4 developments and applications. IEEE Transactions on Nuclear Science, 2006, 53, 270-278.	1.2	4,869
42	Pion freeze-out time in Pb+Pb collisions at 158â€‰AGeV/c studied via Ï€-/Ï€+ and K-/K+ ratios. European Physical Journal C, 2006, 48, 343-352.	1.4	1
43	Centrality and transverse momentum dependence of collective flow in 158 Aâ€‰GeV Pb+Pb collisions measured via inclusive photons. Nuclear Physics A, 2005, 762, 129-146.	0.6	20
44	Interferometry of Direct Photons in CentralPb208+Pb208Collisions at158Aâ€‰â€Šâ€ŠGeV. Physical Review Letters, 2004, 93, 022301.	2.9	60
45	Particle density fluctuations. Nuclear Physics A, 2003, 715, 339c-348c.	0.6	0
46	Photon flow in 158 A GeV Pb+Pb collisions. Nuclear Physics A, 2003, 715, 579c-582c.	0.6	3
47	Centrality dependence of charged-neutral particle fluctuations in158AGeV208Pb+208Pbcollisions. Physical Review C, 2003, 67, .	1.1	15
48	One-, two-, and three-particle distributions from158AGeV/ccentral Pb+Pb collisions. Physical Review C, 2003, 67, .	1.1	32
49	Event-by-event fluctuations in particle multiplicities and transverse energy produced in158Aâ€‰GeVPb+Pb collisions. Physical Review C, 2002, 65, .	1.1	58
50	Localized charged-neutral fluctuations in158AGeV Pb+Pb collisions. Physical Review C, 2001, 64, .	1.1	28
51	Î”++ production in 158 A GeV 208Pb+208Pb interactions at the CERN SPS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 477, 37-44.	1.5	2
52	Collective flow and HBT in Pb+Pb collisions at the CERN-SPS. Nuclear Physics A, 2000, 663-664, 729c-732c.	0.6	2
53	Search for disoriented chiral condensates in 158Â·A GeV Pb+Pb collisions. Nuclear Physics A, 2000, 663-664, 745c-748c.	0.6	3
54	Three-Pion Interferometry Results from CentralPb+PbCollisions at158AGeV/c. Physical Review Letters, 2000, 85, 2895-2899.	2.9	29

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55	Observation of Direct Photons in Central158AGeVP208b+P208bCollisions. Physical Review Letters, 2000, 85, 3595-3599.	2.9	188
56	Freeze-Out Parameters in Central158AGeVP208b+PbCollisions. Physical Review Letters, 1999, 83, 926-930.	2.9	16
57	Systematics of inclusive photon production in 158Â·A GeV Pb induced reactions on Ni, Nb, and Pb targets. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 458, 422-430.	1.5	29
58	Elliptic emission of K+ and Ï€+ in 158 AÂ·GeV Pb + Pb collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 469, 30-36.	1.5	12
59	Direct photon production in high-energy heavy-ion collisions. Nuclear Physics A, 1999, 654, 631c-634c.	0.6	1
60	Search for disoriented chiral condensates in 158 AGeV Pb+Pb collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 420, 169-179.	1.5	60
61	Nuclear structure in odd-odd nuclei,144<~A<~194. Reviews of Modern Physics, 1998, 70, 843-895.	16.4	83
62	Centrality Dependence of Neutral Pion Production in158AGeVP208b+P208bCollisions. Physical Review Letters, 1998, 81, 4087-4091.	2.9	54
63	Vibrational admixtures in low-lying states in odd-odd rare-earth nuclei. Physica Scripta, 1995, T56, 256-257.	1.2	2
64	Microscopic description of vibrational degrees of freedom in odd-odd isotopes of Ho. Zeitschrift FÃ¼r Physik A, 1992, 343, 145-159.	0.9	13
65	Description of low-lying states in odd-odd deformed nuclei taking account of the coupling with core rotations and vibrations I. Theory. European Physical Journal D, 1991, 41, 345-358.	0.4	4
66	Underlying Event measurements in pp collisions at (sqrt {s} = 0.9) and 7 TeV with the ALICE experiment at the LHC. , 0, .		1