

# Ivana Hrivnacova

## List of Publications by Year in descending order

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Version: 2024-02-01

66  
papers

10,374  
citations

185998

28  
h-index

128067

60  
g-index

66  
all docs

66  
docs citations

66  
times ranked

12854  
citing authors

#	ARTICLE	IF	CITATIONS
1	Geant4 developments and applications. IEEE Transactions on Nuclear Science, 2006, 53, 270-278.	1.2	4,869
2	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
3	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
4	Charged-particle multiplicity measurement in proton-proton collisions at $\sqrt{s}=7\mathrm{TeV}$ with ALICE at LHC. European Physical Journal C, 2010, 68, 345-354.	1.4	212
5	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
6	Charmonium and $e+e^{-}$ pair photoproduction at mid-rapidity in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76\mathrm{TeV}$ . European Physical Journal C, 2013, 73, 2617.	1.4	203
7	Measurement of inelastic, single- and double-diffraction cross sections in proton-proton collisions at the LHC with ALICE. European Physical Journal C, 2013, 73, 2456.	1.4	202
8	Charged-particle multiplicity measurement in proton-proton collisions at $\sqrt{s}=0.9$ and $2.36\mathrm{TeV}$ with ALICE at LHC. European Physical Journal C, 2010, 68, 89-108.	1.4	199
9	Observation of Direct Photons in Central 158 A GeV Pb+Pb Collisions. Physical Review Letters, 2000, 85, 3595-3599.	2.9	188
10	Strange particle production in proton-proton collisions at $\sqrt{s}=0.9\mathrm{TeV}$ with ALICE at the LHC. European Physical Journal C, 2011, 71, 1.	1.4	140
11	Measurement of charm production at central rapidity in proton-proton collisions at $\sqrt{s}=7\mathrm{TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	139
12	First proton-proton collisions at the LHC as observed with the ALICE detector: measurement of the charged-particle pseudorapidity density at $\sqrt{s}=900\mathrm{GeV}$ . European Physical Journal C, 2010, 65, 111-125.	1.4	124
13	Measurement of charm production at central rapidity in proton-proton collisions at $\sqrt{s}=2.76\mathrm{TeV}$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	115
14	Production of $K^{*}(892)^{0}$ and $\bar{K}^{*}(1020)$ in pp collisions at $\sqrt{s}=7\mathrm{TeV}$ . European Physical Journal C, 2012, 72, 1.	1.4	111
15	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
16	Geometry and physics of the Geant4 toolkit for high and medium energy applications. Radiation Physics and Chemistry, 2009, 78, 859-873.	1.4	94
17	Nuclear structure in odd-odd nuclei, $144 < A < 194$ . Reviews of Modern Physics, 1998, 70, 843-895.	16.4	83
18	Search for disoriented chiral condensates in 158 A GeV Pb+Pb collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 420, 169-179.	1.5	60

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19	Interferometry of Direct Photons in Central Pb+Pb Collisions at 158 A GeV. Physical Review Letters, 2004, 93, 022301.	2.9	60
20	Event-by-event fluctuations in particle multiplicities and transverse energy produced in 158 A GeV Pb+Pb collisions. Physical Review C, 2002, 65, .	1.1	58
21	Measurement of event background fluctuations for charged particle jet reconstruction in Pb-Pb collisions at $\sqrt{s} = 2.76, 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	58
22	Centrality Dependence of Neutral Pion Production in 158 A GeV Pb+Pb Collisions. Physical Review Letters, 1998, 81, 4087-4091.	2.9	54
23	Measurement of prompt $J/\psi$ 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
24	$J/\psi$ production and nuclear effects in p-Pb collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	44
25	One-, two-, and three-particle distributions from 158 A GeV central Pb+Pb collisions. Physical Review C, 2003, 67, .	1.1	32
26	Transverse sphericity of primary charged particles in minimum bias proton-proton collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV. European Physical Journal C, 2012, 72, 1.	1.4	32
27	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
28	Mid-rapidity anti-baryon to baryon ratios in pp collisions at $\sqrt{s} = 0.9, 2.76, 7$ TeV measured by ALICE. European Physical Journal C, 2013, 73, 1.	1.4	31
29	Systematics of inclusive photon production in 158 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
30	Three-Pion Interferometry Results from Central Pb+Pb Collisions at 158 A GeV/c. Physical Review Letters, 2000, 85, 2895-2899.	2.9	29
31	Localized charged-neutral fluctuations in 158 A GeV Pb+Pb collisions. Physical Review C, 2001, 64, .	1.1	28
32	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
33	Suppression of High-pT Neutral Pion Production in Central Pb+Pb Collisions at $\sqrt{s} = 17.3$ A GeV Relative to p+Pb Collisions. Physical Review Letters, 2008, 100, 242301.	2.9	22
34	Centrality and transverse momentum dependence of collective flow in 158 A GeV Pb+Pb collisions measured via inclusive photons. Nuclear Physics A, 2005, 762, 129-146.	0.6	20
35	Multiplicity dependence of two-particle azimuthal correlations in pp collisions at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	1.6	18
36	Event-by-event charged-neutral fluctuations in $\sqrt{s} = 2.76, 7$ TeV pp collisions. Physics Letters, 2012, 702, 1-10.	1.5	17

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37	Freeze-Out Parameters in Central $158\text{A GeV Pb}+208\text{Pb}$ Collisions. <i>Physical Review Letters</i> , 1999, 83, 926-930.	2.9	16
38	Centrality dependence of charged-neutral particle fluctuations in $158\text{A GeV Pb}+208\text{Pb}$ collisions. <i>Physical Review C</i> , 2003, 67, .	1.1	15
39	Interfacing Geant4, Garfield++ and Degrad for the simulation of gaseous detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2019, 935, 121-134.	0.7	15
40	Microscopic description of vibrational degrees of freedom in odd-odd isotopes of Ho. <i>Zeitschrift für Physik A</i> , 1992, 343, 145-159.	0.9	13
41	Elliptic emission of $K^+$ and $\bar{K}^+$ in $158\text{A GeV Pb} + \text{Pb}$ collisions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 469, 30-36.	1.5	12
42	The virtual geometry model. <i>Journal of Physics: Conference Series</i> , 2008, 119, 042016.	0.3	7
43	The Geant4 virtual Monte Carlo. <i>Journal of Physics: Conference Series</i> , 2008, 119, 032025.	0.3	5
44	Description of low-lying states in odd-odd deformed nuclei taking account of the coupling with core rotations and vibrations I. Theory. <i>European Physical Journal D</i> , 1991, 41, 345-358.	0.4	4
45	$O_{2\text{D}}$ : A novel combined online and offline computing system for the ALICE Experiment after 2018. <i>Journal of Physics: Conference Series</i> , 2014, 513, 012037.	0.3	4
46	Physics perspectives with AFTER@LHC (A Fixed Target Experiment at LHC). <i>EPJ Web of Conferences</i> , 2018, 171, 10001.	0.1	4
47	Geant4 electromagnetic physics progress. <i>EPJ Web of Conferences</i> , 2020, 245, 02009.	0.1	4
48	Search for disoriented chiral condensates in $158\text{A GeV Pb}+\text{Pb}$ collisions. <i>Nuclear Physics A</i> , 2000, 663-664, 745c-748c.	0.6	3
49	Photon flow in $158\text{A GeV Pb}+\text{Pb}$ collisions. <i>Nuclear Physics A</i> , 2003, 715, 579c-582c.	0.6	3
50	Extending Geant4 Parallelism with external libraries (MPI, TBB) and its use on HPC resources. , 2015, , .		3
51	Vibrational admixtures in low-lying states in odd-odd rare-earth nuclei. <i>Physica Scripta</i> , 1995, T56, 256-257.	1.2	2
52	$\bar{\Lambda}^0$ production in $158\text{A GeV Pb}+208\text{Pb}$ interactions at the CERN SPS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 477, 37-44.	1.5	2
53	Collective flow and HBT in $\text{Pb}+\text{Pb}$ collisions at the CERN-SPS. <i>Nuclear Physics A</i> , 2000, 663-664, 729c-732c.	0.6	2
54	The ALICE Geant4 Simulation. <i>Journal of Physics: Conference Series</i> , 2011, 331, 032016.	0.3	2

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55	Integration of g4tools in Geant4. Journal of Physics: Conference Series, 2014, 513, 022014.	0.3	2
56	Direct photon production in high-energy heavy-ion collisions. Nuclear Physics A, 1999, 654, 631c-634c.	0.6	1
57	Pion freeze-out time in Pb+Pb collisions at 158 A GeV/c studied via $\pi^-/\pi^+$ and K-/K+ ratios. European Physical Journal C, 2006, 48, 343-352.	1.4	1
58	The Geant4 Virtual Monte Carlo. Journal of Physics: Conference Series, 2012, 396, 022024.	0.3	1
59	Photon and $\hat{\nu}$ production in p+Pb and p+C collisions at. Nuclear Physics A, 2013, 898, 14-23.	0.6	1
60	Analysis Tools in Geant4 10.2 and 10.3. Journal of Physics: Conference Series, 2017, 898, 042018.	0.3	1
61	Underlying Event measurements in pp collisions at ( $\sqrt{s} = 0.9$ ) and 7 TeV with the ALICE experiment at the LHC. , 0, .		1
62	Using multiple engines in the Virtual Monte Carlo package. EPJ Web of Conferences, 2020, 245, 02008.	0.1	1
63	Particle density fluctuations. Nuclear Physics A, 2003, 715, 339c-348c.	0.6	0
64	Geant4 VMC 3.0. Journal of Physics: Conference Series, 2015, 664, 072020.	0.3	0
65	The Virtual Geometry Model. EPJ Web of Conferences, 2020, 245, 02014.	0.1	0
66	New Developments in the VMC Project. EPJ Web of Conferences, 2020, 245, 02005.	0.1	0