

Sara Vallero

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

3,998
citations

126708

33
h-index

114278

63
g-index

78
all docs

78
docs citations

78
times ranked

6069
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
5	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
6	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
7	Measurement of pion, kaon and proton production in proton-proton collisions at $\sqrt{s}=7\mathrm{TeV}$. European Physical Journal C, 2015, 75, 226.	1.4	149
8	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
9	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
10	Production of $\Sigma(1385)^{\pm}$, $\Xi(1385)^{\pm}$ and $\Xi(1530)^0$, $\Xi(1530)^{\pm}$ in proton-proton collisions at $\sqrt{s}=7\mathrm{TeV}$. European Physical Journal C, 2015, 75, 1.	1.4	125
11	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
12	Elliptic flow of identified hadrons in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76\mathrm{TeV}$. Journal of High Energy Physics, 2015, 2015, 1.	1.6	118
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 $\phi(1020)$ in pp collisions at $\sqrt{s}=7\mathrm{TeV}$. European Physical Journal C, 2012, 72, 1.	1.4	111
15	Measurement of quarkonium production at forward rapidity in pp collisions at $\sqrt{s}=7\mathrm{TeV}$. European Physical Journal C, 2014, 74, 2974.	1.4	89
16	Production of $K^*(892)^0$ and $\phi(1020)$ in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}}=5.02\mathrm{TeV}$. European Physical Journal C, 2016, 76, 245.	1.4	89
17	Transverse momentum dependence of D-meson production in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76\mathrm{TeV}$. Journal of High Energy Physics, 2016, 2016, 1.	1.6	88
18	Neutral pion production at midrapidity in pp and Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}}=2.76\mathrm{TeV}$. European Physical Journal C, 2014, 74, 1.	1.4	72

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19	Measurement of charged jet suppression in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	68
20	Charged-particle multiplicities in proton-proton collisions at $\sqrt{s} = 0.9$ to 8 TeV. European Physical Journal C, 2017, 77, 1.	1.4	62
21	Event-by-event mean $\langle p_T \rangle$ fluctuations in pp and Pb-Pb collisions at the LHC. European Physical Journal C, 2014, 74, 1.	1.4	61
22	Measurement of event background fluctuations for charged particle jet reconstruction in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	1.6	58
23	Transverse momentum dependence of inclusive primary charged-particle production in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. European Physical Journal C, 2014, 74, 1.	1.4	58
24	INDIGO-DataCloud: a Platform to Facilitate Seamless Access to E-Infrastructures. Journal of Grid Computing, 2018, 16, 381-408.	2.5	58
25	Measurement of prompt J/ψ 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
26	Measurement of charm and beauty production at central rapidity versus charged-particle multiplicity in proton-proton collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	50
27	Measurement of jet quenching with semi-inclusive hadron-jet distributions in central Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	48
28	Inclusive quarkonium production at forward rapidity in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2016, 76, 184.	1.4	39
29	Rapidity and transverse-momentum dependence of the inclusive J/ψ nuclear modification factor in p-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	38
30	Multiplicity dependence of π , K, and p production in pp collisions at $\sqrt{s} = 13.8$ TeV. European Physical Journal C, 2020, 80, 1.	1.4	38
31	Forward-backward multiplicity correlations in pp collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	36
32	Centrality dependence of high-pT D meson suppression in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	35
33	Differential studies of inclusive J/ψ and $\psi(2S)$ production at forward rapidity in Pb-Pb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	33
34	Transverse sphericity of primary charged particles in minimum bias proton-proton collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV. European Physical Journal C, 2012, 72, 1.	1.4	32
35	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
36	Mid-rapidity anti-baryon to baryon ratios in pp collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV measured by ALICE. European Physical Journal C, 2013, 73, 1.	1.4	31

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37	Centrality dependence of charged jet production in pPb collisions at $\sqrt{s_{\text{NN}}}$ s NN = 5.02 TeV. European Physical Journal C, 2016, 76, 271.	1.4	31
38	OCCAM: a flexible, multi-purpose and extendable HPC cluster. Journal of Physics: Conference Series, 2017, 898, 082039.	0.3	31
39	Inclusive, prompt and non-prompt J/ψ production at mid-rapidity in Pb-Pb collisions at $\sqrt{s_{\text{NN}}}$ = 2.76 TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	30
40	Coherent ρ^0 photoproduction in ultra-peripheral Pb-Pb collisions at $\sqrt{s_{\text{NN}}}$ = 2.76 TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	30
41	Multiplicity and transverse momentum evolution of charge-dependent correlations in pp, pPb, and PbPb collisions at the LHC. European Physical Journal C, 2016, 76, 86.	1.4	30
42	Particle identification in ALICE: a Bayesian approach. European Physical Journal Plus, 2016, 131, 1.	1.2	29
43	Centrality dependence of inclusive J/ψ production in p-Pb collisions at $\sqrt{s_{\text{NN}}}$ = 5.02 TeV. Journal of High Energy Physics, 2015, 2015, 1.	1.6	28
44	Suppression of $\Upsilon(2S)$ production in p-Pb collisions at $\sqrt{s_{\text{NN}}}$ = 5.02 TeV. Journal of High Energy Physics, 2014, 2014, 1.	1.6	24
45	Monitoring of IaaS and scientific applications on the Cloud using the Elasticsearch ecosystem. Journal of Physics: Conference Series, 2015, 608, 012016.	0.3	24
46	HPC4AI., 2018, , .		24
47	(Anti-)deuteron production in pp collisions at $\sqrt{s} = 13$ ext {TeV}. European Physical Journal C, 2020, 80, 1.	1.4	24
48	Measurement of azimuthal correlations of D mesons with charged particles in pp collisions at $\sqrt{s} = 7$ TeV and pPb collisions at $\sqrt{s_{\text{NN}}}$ = 5.02 TeV. European Physical Journal C, 2017, 77, 245.	1.4	23
49	Production of light-flavor hadrons in pp collisions at $\sqrt{s} = 7$ ext { and } $\sqrt{s} = 13$, ext { TeV }. European Physical Journal C, 2021, 81, 1.	1.4	23
50	Prompt D^0 , D^+ , and D^{*+} production in PbPb collisions at $\sqrt{s_{\text{NN}}}$ = 5.02 TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	23
51	Measurement of D^+ production and nuclear modification factor in Pb-Pb collisions at $\sqrt{s_{\text{NN}}}$ = 2.76 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	19
52	Multiplicity dependence of two-particle azimuthal correlations in pp collisions at the LHC. Journal of High Energy Physics, 2013, 2013, 1.	1.6	18
53	Coherent ρ^0/ψ and Υ photoproduction at midrapidity in ultra-peripheral PbPb collisions at $\sqrt{s_{\text{NN}}}$ = 5.02 TeV. European Physical Journal C, 2021, 81, 1.	1.4	18
54	Centrality dependence of $\Upsilon(2S)$ suppression in p-Pb collisions at $\sqrt{s_{\text{NN}}}$ = 5.02 TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	17

#	ARTICLE	IF	CITATIONS
55	Inclusive photon production at forward rapidities in proton-proton collisions at $\sqrt{s} = 0.9, 2.76$ and 7 TeV. European Physical Journal C, 2015, 75, 1.	1.4	12
56	Production of pions, kaons, (anti-)protons and ϕ mesons in Xe-Xe collisions at $\sqrt{s_{\text{NN}}} = 5.44$ TeV. European Physical Journal C, 2021, 81, 1.	1.4	12
57	Pseudorapidity distributions of charged particles as a function of mid- and forward rapidity multiplicities in pp collisions at $\sqrt{s} = 5.02, 7$ and 13 TeV. European Physical Journal C, 2021, 81, 1.	1.4	12
58	Azimuthal correlations of prompt D mesons with charged particles in pp and p-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ hbox {TeV}. European Physical Journal C, 2020, 80, 1.	1.4	11
59	Measurement of D-meson production versus multiplicity in p-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2016, 2016, 1.	1.6	10
60	Measurement of $\Lambda(1520)$ production in pp collisions at $\sqrt{s} = 7$ hbox {TeV} and p-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ hbox {TeV}. European Physical Journal C, 2020, 80, 1.	1.4	10
61	Addendum to: Centrality dependence of high-pT D-meson suppression in Pb-Pb collisions at $\sqrt{s_{\text{NN}}} = 2.76$ TeV. Journal of High Energy Physics, 2017, 2017, 1.	1.6	6
62	Investigating charm production and fragmentation via azimuthal correlations of prompt D mesons with charged particles in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 1.	1.4	6
63	Local storage federation through XRootD architecture for interactive distributed analysis. Journal of Physics: Conference Series, 2015, 664, 042013.	0.3	5
64	Improved Cloud resource allocation: how INDIGO-DataCloud is overcoming the current limitations in Cloud schedulers. Journal of Physics: Conference Series, 2017, 898, 092010.	0.3	5
65	Non-linear flow modes of identified particles in Pb-Pb collisions at $\sqrt{s_{\text{NN}}} = 5.02$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	4
66	Production of Ω mesons in pp collisions at $\sqrt{s} = 7, \text{ext}$ {TeV}. European Physical Journal C, 2020, 80, 1.	1.4	4
67	Operation and calibration of the Silicon Drift Detectors of the ALICE experiment during the 2008 cosmic ray data taking period. Journal of Instrumentation, 2010, 5, P04004-P04004.	0.5	3
68	Integrating multiple scientific computing needs via a Private Cloud infrastructure. Journal of Physics: Conference Series, 2014, 513, 032100.	0.3	3
69	Towards Monitoring-as-a-service for Scientific Computing Cloud applications using the Elasticsearch ecosystem. Journal of Physics: Conference Series, 2015, 664, 022040.	0.3	3
70	Managing a tier-2 computer centre with a private cloud infrastructure. Journal of Physics: Conference Series, 2014, 523, 012012.	0.3	1
71	Managing competing elastic Grid and Cloud scientific computing applications using OpenNebula. Journal of Physics: Conference Series, 2015, 664, 022004.	0.3	1
72	Underlying Event measurements in pp collisions at ($\sqrt{s} = 0.9$) and 7 TeV with the ALICE experiment at the LHC. , 0, .		1

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73	\mathbf{K}_S^0 - and (anti-) Λ -hadron correlations in pp collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 1.	1.4	1
74	Interoperating Cloud-based Virtual Farms. Journal of Physics: Conference Series, 2015, 664, 022033.	0.3	0
75	Improvements of LHC data analysis techniques at Italian WLCG sites. Case-study of the transfer of this technology to other research areas. Journal of Physics: Conference Series, 2015, 664, 032006.	0.3	0
76	Plancton: an opportunistic distributed computing project based on Docker containers. Journal of Physics: Conference Series, 2017, 898, 092049.	0.3	0
77	A FairShare Scheduling Service for OpenNebula. Journal of Physics: Conference Series, 2017, 898, 092037.	0.3	0
78	Geographically distributed Batch System as a Service: the INDIGO-DataCloud approach exploiting HTCCondor. Journal of Physics: Conference Series, 2017, 898, 052033.	0.3	0