Alessandro Papa

List of Publications by Year
in descending order

167 papers	2,617 citations
172457 29 h-index	265206 42 g-index
169 all docs	169 docs citations
169 times ranked	1439 citing authors

#	Article	IF	Citations
1	Traffic models and traffic-jam transition in quantum (N+1)-level systems. SciPost Physics Core, 2022, 5, .	2.8	6
2	The Forward Physics Facility: Sites, experiments, and physics potential. Physics Reports, 2022, 968, 1-50.	25.6	57
3	Ultraforward production of a charmed hadron plus a Higgs boson in unpolarized proton collisions. Physical Review D, 2022, 105, .	4.7	8
4	High-energy resummation in inclusive hadroproduction of Higgs plus jet. SciPost Physics Proceedings, 2022, , .	0.4	5
5	Hybrid high-energy/collinear factorization in a heavy-light dijets system reaction. SciPost Physics Proceedings, 2022, , .	0.4	4
6	Exclusive emissions of rho-mesons and the unintegrated gluon distribution. SciPost Physics Proceedings, 2022, , .	0.4	5
7	High-energy resummed distributions for the inclusive Higgs-plus-jet production at the LHC. European Physical Journal C, 2021, 81, 1.	3.9	29
8	Dual simulation of a Polyakov loop model at finite baryon density: Phase diagram and local observables. Nuclear Physics B, 2021, 965, 115332.	2.5	6
9	Inclusive production of a heavy-light dijet system in hybrid high-energy and collinear factorization. Physical Review D, 2021, 103, .	4.7	25
10	High-energy resummation in $Lambda _c$ baryon production. European Physical Journal C, 2021, 81, 1.	3.9	26
11	Exclusive production of $\rho $-mesons in high-energy factorization at HERA and EIC. European Physical Journal C, 2021, 81, 1.	3.9	18
12	On the Lorentz-Invariance of the Dyson Series in Theories with Derivative Couplings. Ukrainian Journal of Physics, 2021, 66, 945.	0.2	0
13	Bottom-flavored inclusive emissions in the variable-flavor number scheme: A high-energy analysis. Physical Review D, 2021, 104, .	4.7	15
14	Diffractive production of Λ hyperons in the high-energy limit of strong interactions. Physical Review D, 2020, 102, .	4.7	22
15	Analytical and cellular automaton approach to a generalized SEIR model for infection spread in an open crowded space. Physical Review Research, 2020, 2, .	3.6	6
16	The confining color field in SU(3) gauge theory. European Physical Journal C, 2020, 80, 1.	3.9	14
17	Isolating the confining color field in the SU(3) flux tube. European Physical Journal C, 2019, 79, 1.	3.9	21
18	Three-quark potentials in an SU(3) effective Polyakov loop model. Nuclear Physics B, 2019, 940, 214-238.	2.5	5

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19	High-energy resummation in heavy-quark pair hadroproduction. European Physical Journal C, 2019, 79, 1.	3.9	27
20	High-energy effects in forward inclusive dijet and hadron-jet production. , 2019, , .		5
21	Inclusive production of two rapidity-separated heavy quarks as a probe of BFKL dynamics. , 2019, , .		4
22	Inclusive Hadron-jet Production at the LHC. Acta Physica Polonica B, Proceedings Supplement, 2019, 12, 773.	0.1	19
23	Leptoproduction of ho Mesons as Discriminator for the Unintegrated Gluon Distribution in the Proton. Acta Physica Polonica B, Proceedings Supplement, 2019, 12, 891.	0.1	21
24	Spatial structure of the color field in the SU(3) flux tube. , 2019, , .		0
25	QCD flux tubes across the deconfinement phase transition. EPJ Web of Conferences, 2018, 175, 12006.	0.3	7
26	High-energy resummation in heavy-quark pair photoproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 777, 141-150.	4.1	27
27	Finite density 2D O(3) sigma model: Dualization and numerical simulations. Physical Review D, 2018, 98, .	4.7	2
28	Unintegrated gluon distribution from forward polarized $$ho$$ Ï•-electroproduction. European Physical Journal C, 2018, 78, 1.	3.9	34
29	Hadron-jet correlations in high-energy hadronic collisions at the LHC. European Physical Journal C, 2018, 78, 1.	3.9	27
30	Flux tubes in the QCD vacuum. Physical Review D, 2017, 95, .	4.7	32
31	Dihadron production at the LHC: full next-to-leading BFKL calculation. European Physical Journal C, 2017, 77, 1.	3.9	30
32	Dihadron production at LHC: BFKL predictions for cross sections and azimuthal correlations. AIP Conference Proceedings, 2017, , .	0.4	15
33	Flux Tubes in QCD with (2+1) HISQ Fermions. , 2017, , .		3
34	LHC forward physics. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 110201.	3.6	99
35	Flux tubes at finite temperature. Journal of High Energy Physics, 2016, 2016, 1.	4.7	33
36	Berezinskii-Kosterlitz-Thouless phase transitions in two-dimensional non-Abelian spin models. Physical Review E, 2016, 94, 012108.	2.1	2

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37	Critical line of $2+1$ flavor QCD: Toward the continuum limit. Physical Review D, 2016, 93, .	4.7	44
38	High energy resummation in dihadron production at the LHC. Physical Review D, 2016, 94, .	4.7	30
39	Mueller–Navelet jets at 13 TeV LHC: dependence on dynamic constraints in the central rapidity region. European Physical Journal C, 2016, 76, 1.	3.9	36
40	BFKL effects and central rapidity dependence in Mueller-Navelet jet production at 13 TeV LHC. , 2016, , .		5
41	Anatomy of SU(3) flux tubes at finite temperature. , 2016, , .		0
42	Curvature of the pseudocritical line in (2+1)-flavor QCD with HISQ fermions. , 2016, , .		0
43	Brodsky-Lepage-Mackenzie optimal renormalization scale setting for semihard processes. Physical Review D, 2015, 91, .	4.7	41
44	Deconfinement and universality in the 3D U(1) lattice gauge theory at finite temperature: study in the dual formulation. Journal of High Energy Physics, 2015, 2015, 1.	4.7	8
45	Mueller–Navelet jets at LHC: BFKL versus high-energy DGLAP. European Physical Journal C, 2015, 75, 1.	3.9	49
46	Semihard processes with BLM renormalization scale setting. AIP Conference Proceedings, 2015, , .	0.4	0
47	The $\gamma^*\gamma^*$ total cross section in NLA BFKL. AIP Conference Proceedings, 2015, , .	0.4	0
48	Mueller--Navelet Jets at the LHC: Discriminating BFKL from DGLAP by Asymmetric Cuts. Acta Physica Polonica B, Proceedings Supplement, 2015, 8, 935.	0.1	23
49	London penetration depth and coherence length of SU(3) vacuum flux tubes. , 2015, , .		1
50	Curvature of the QCD critical line with 2+1 HISQ fermions. , 2015, , .		0
51	Critical behavior and continuum scaling of 3D Z(N) lattice gauge theories. , 2015, , .		0
52	Mueller–Navelet jets in next-to-leading order BFKL: theory versus experiment. European Physical Journal C, 2014, 74, 1.	3.9	58
53	Phase structure of 3D Z(N) lattice gauge theories at finite temperature: Large- N and continuum limits. Nuclear Physics B, 2014, 888, 52-64.	2.5	3
54	Behavior near $\beta = \infty$ of the mass gap in the two-dimensional O(3) nonlinear sigma model. Physical Review B, 2014, 90, .		

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55	Critical line of $2+1$ flavor QCD. Physical Review D, 2014, 89, .	4.7	10
56	Flux tubes in the SU(3) vacuum: London penetration depth and coherence length. Physical Review D, 2014, 89, .	4.7	39
57	The $γ^*γ^*$ total cross section in next-to-leading order BFKL and LEP2 data. Journal of High Energy Physics, 2014, 2014, 1.	4.7	15
58	Critical behavior of 3D $Z(N)$ lattice gauge theories at zero temperature. Nuclear Physics B, 2014, 879, 80-97.	2.5	11
59	Mueller–Navelet jets in next-to-leading order BFKL: theory versus experiment. , 2014, 74, 1.		1
60	Phase transitions in the three-dimensional Z(N) models. , 2014, , .		0
61	A new approach to the two-dimensional $sigma$ model with a topological charge. , 2014, , .		0
62	Critical properties of 3D Z(N) lattice gauge theories at finite temperature. , 2014, , .		0
63	Flux tubes and coherence length in the SU(3) vacuum. , 2014, , .		1
64	Mueller–Navelet small-cone jets at LHC in next-to-leading BFKL. Nuclear Physics B, 2013, 877, 73-94.	2.5	60
65	Phase structure of 3D lattice gauge theories at finite temperature. Nuclear Physics B, 2013, 870, 159-175.	2.5	5
66	Möbius invariant BFKL equation for the adjoint representation in N=4 SUSY. Nuclear Physics B, 2013, 874, 230-242.	2.5	10
67	Preface: Diffraction 2012. , 2013, , .		0
68	Mueller-Navelet jets in high-energy hadron collisions. , 2013, , .		0
69	NLO forward jet vertex. , 2013, , .		0
70	Inclusive production of a pair of identified, rapidity-separated hadrons in proton collisions. , 2013, , .		0
71	Chiral symmetry breaking in planar QED in external magnetic fields. Physical Review D, 2012, 85, .	4.7	5
72	Chromoelectric flux tubes and coherence length in QCD. Physical Review D, 2012, 86, .	4.7	43

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73	The next-to-leading order forward jet vertex in the small-cone approximation. Journal of High Energy Physics, 2012, 2012, 1.	4.7	41
74	Connection between complete and Mã¶bius forms of gauge invariant operators. Nuclear Physics B, 2012, 856, 111-124.	2.5	9
75	Difference between standard and quasi-conformal BFKL kernels. Nuclear Physics B, 2012, 865, 67-82.	2.5	6
76	Critical line of two-flavor QCD at finite isospin or baryon densities from imaginary chemical potentials. Physical Review D, 2012, 85, .	4.7	61
77	Phase transitions in strongly coupled three-dimensional Z(<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 592 Td (xmlns:n Physical Review E, 2012, 86, 051131.	2.1	5
78	Phase transitions in two-dimensional$Z(N)$vector models for$N>4$. Physical Review E, 2012, 85, 021114.	2.1	16
79	The next-to-leading order jet vertex for Mueller-Navelet and forward jets revisited. Journal of High Energy Physics, 2012, 2012, 1.	4.7	49
80	Inclusive production of a pair of hadrons separated by a large interval of rapidity in proton collisions. Journal of High Energy Physics, 2012, 2012, 1.	4.7	27
81	Critical properties of 2D Z(N) vector models for N>4. , 2012, , .		0
82	Lattice Planar QED in external magnetic field. , 2012, , .		0
83	Phase diagram of QCD with two degenerate staggered quarks. , 2012, , .		0
84	Flux tubes in the SU(3) vacuum. , 2012, , .		0
85	Two-flavor QCD at finite quark or isospin density. , 2012, , .		0
86	BKT phase transitions in strongly coupled 3D Z(N) LGT at finite temperature. , 2012, , .		0
87	Chromoelectric flux tubes in QCD. Physical Review D, 2011, 83, .	4.7	28
88	Numerical study of the phase transitions in the two-dimensional Z(5) vector model. Physical Review E, 2011, 83, 041120.	2.1	31
89	Quasi-conformal shape of the BFKL kernel and impact factors for scattering of colourless particles. , 2011, , .		1
90	Critical behavior of the compact 3D U(1) gauge theory at finite temperature. , 2011, , .		0

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91	The critical line of QCD with four degenerate quarks. , 2011, , .		0
92	Critical properties of the two-dimensional Z(5) vector model. , 2011, , .		0
93	Low-x evolution equations in MÃ¶bius representation. Physics of Particles and Nuclei, 2010, 41, 935-938.	0.7	1
94	Critical behavior of the compact 3D<i>U</i>(1) gauge theory on isotropic lattices. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P04015.	2.3	9
95	Phase diagram of QCD with four degenerate quarks. Physical Review D, 2010, 81, .	4.7	24
96	Analytic continuation in QCD-like theories at finite density and finite isospin. , 2010, , .		0
97	On the analytic continuation of the critical line. , 2010, , .		0
98	Low-x QCD studies with forward jets in proton-proton collisions at sâ‰=â‰14â‰TeV. , 2009, , .		7
99	NLO BFKL in Î³âˆ—Î³âˆ— collisions. , 2009, , .		0
100	Analytic continuation in two-color QCD: new results on the critical line. Nuclear Physics A, 2009, 820, 239c-242c.	1.5	1
101	Analytic continuation of the critical line: Suggestions for QCD. Physical Review D, 2009, 80, .	4.7	53
102	Collinear improvement of the BFKL kernel in the electroproduction of two light vector mesons. European Physical Journal C, 2008, 53, 525-532.	3.9	26
103	BFKL resummation effects inÂtheÂÎ³ * Î³ *ÂtotalÂhadronicÂcrossÂsection. European Physical Journal C, 2008, 58, 1-7.	3.9	29
104	Mass gap in the 2D O(3) nonlinear sigma model with a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î¸</mml:mi><mml:mo>=</mml:mo><mml:mi>Ï€</mml:mi></mml:math>term. Physical Review D, 2008, 77, .	4.7	30
105	Critical behavior of the compact 3D<i>U</i>(1) theory in the limit of zero spatial coupling. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P08009.	2.3	10
106	Critical line from imaginary to real baryonic chemical potentials in two-color QCD. Physical Review D, 2008, 77, .	4.7	25
107	Non-compact QED₃at finite temperature: the confinement-deconfinement transition. Journal of High Energy Physics, 2008, 2008, 055-055.	4.7	3
108	Electroproduction of two-light vector mesons from collinearly improved BFKL kernel. , 2008, , .		0

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109	Numerical Study of the mass spectrum in the 2D O(3) sigma model with a theta term. , 2008, , .		0
110	Analytic continuation of the critical line in 2-color QCD at nonzero temperature and density. , 2008, , .		0
111	Universality and massive excitations in 3d 3-state Potts model. , 2008, , .		0
112	Analytic continuation from imaginary to real chemical potential in two-color QCD. Journal of High Energy Physics, 2007, 2007, 066-066.	4.7	33
113	The spectrum of massive excitations of 3d 3-state Potts model and universality. Nuclear Physics B, 2007, 767, 385-398.	2.5	7
114	On the coordinate representation of NLO BFKL. Nuclear Physics B, 2007, 769, 108-123.	2.5	21
115	The dipole form of the gluon part of the BFKL kernel. Nuclear Physics B, 2007, 784, 49-71.	2.5	23
116	Screening masses in the SU(3) pure gauge theory and universality. Nuclear Physics B, 2007, 785, 19-33.	2.5	9
117	The dipole form of the quark part of the BFKL kernel. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 647, 179-184.	4.1	21
118	Electroproduction of two light vector mesons in next-to-leading BFKL: study of systematic effects. European Physical Journal C, 2007, 49, 947-955.	3.9	46
119	Vector Meson Production from NLL BFKL. , 2007, , .		0
120	NLO BFKL at work: the electroproduction of two light vector mesons. , 2007, , .		0
121	Asymptotic neutrino-nucleon cross section and saturation effects. Physical Review D, 2006, 73, .	4.7	18
122	Electroproduction of two light vector mesons in the next-to-leading approximation. Nuclear Physics B, 2006, 732, 183-199.	2.5	64
123	Analytical continuation from imaginary to real chemical potential in two-color QCD under scrutiny. , 2006, , .		1
124	Finite temperature 2-color QCD for real and imaginary chemical potential. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 529-531.	0.4	6
125	The virtual photon to light vector meson impact factor in the next-to-leading order. Nuclear Physics, Section B, Proceedings Supplements, 2005, 146, 117-119.	0.4	4
126	Numerical test of Polyakov loop models in high temperature SU(2). Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 583-585.	0.4	1

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127	Publisher's Note:QED3on a space-time lattice: Compact versus noncompact formulation [Phys. Rev. D72, 094508 (2005)]. Physical Review D, 2005, 72, .	4.7	2
128	Publisher's Note:QED3on a space-time lattice: Compact versus noncompact formulation [Phys. Rev. D72, 094508 (2005)]. Physical Review D, 2005, 72, .	4.7	3
129	QED3on a space-time lattice: Compact versus noncompact formulation. Physical Review D, 2005, 72, .	4.7	12
130	Analytical evolution of nucleon structure functions with power corrections at twist-4 and predictions for ultrahigh energy neutrino-nucleon cross section. Physical Review D, 2005, 71, .	4.7	14
131	QED_3 on a space-time lattice: a comparison between compact and noncompact formulation. , 2005, , .		0
132	Real and imaginary chemical potential in 2-color QCD. Physical Review D, 2004, 69, .	4.7	32
133	FINITE-SIZE SCALING AND DECONFINEMENT TRANSITION: THE CASE OF 4D SU(2) PURE GAUGE THEORY. International Journal of Modern Physics A, 2004, 19, 3209-3216.	1.5	5
134	The impact factor for the virtual photonto light vector meson transition. European Physical Journal C, 2004, 38, 195-213.	3.9	47
135	Spectrum of screening masses in the (3+1)D SU(2) pure gauge theory near the critical temperature. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 490-492.	0.4	6
136	Ultrahigh energy neutrino-nucleon interactions. Physical Review D, 2003, 68, .	4.7	19
137	Spectrum of screening masses nearTc:Predictions from universality. Physical Review D, 2003, 67, .	4.7	18
138	Fulfillment of the Strong Bootstrap Condition. , 2003, , 247-256.		0
139	J/Ïˆphotoproduction at DESY HERA. Physical Review D, 2002, 65, .	4.7	9
140	A proof of fulfillment of the strong bootstrap condition. Nuclear Physics B, 2002, 640, 309-330.	2.5	24
141	Finite-size scaling and deconfinement transition in gauge theories. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 486-488.	0.4	3
142	Analytic model of Regge trajectories. European Physical Journal A, 2001, 10, 217-221.	2.5	26
143	The Pomeron as a finite sum of gluonic ladders: a test in hadron-hadron scattering. Nuclear Physics, Section B, Proceedings Supplements, 2001, 99, 21-23.	0.4	0
144	Resonance masses and widths from nonlinear Regge trajectories. Nuclear Physics, Section B, Proceedings Supplements, 2001, 99, 68-71.	0.4	5

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145	Strong bootstrap conditions for the NLO gluon Reggeization in QCD. Nuclear Physics, Section B, Proceedings Supplements, 2001, 99, 222-225.	0.4	5
146	Finite sum of gluon ladders and high energy cross sections. Physical Review D, 2001, 63, .	4.7	8
147	Finite-size scaling and the deconfinement transition in gauge theories. Physical Review D, 2001, 63, .	4.7	5
148	Strong bootstrap conditions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 495, 329-337.	4.1	19
149	Topology in CPNâˆ'1 models: a critical comparison of different cooling techniques. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 530-532.	0.4	3
150	Quark impact factors. Physical Review D, 2000, 61, .	4.7	43
151	One-loop Reggeon-Reggeon-gluon vertex at arbitrary space-time dimension. Physical Review D, 2000, 63, .	4.7	20
152	Gluon impact factors. Physical Review D, 2000, 61, .	4.7	49
153	Topology in 2DCPNâˆ'1models on the lattice: A critical comparison of different cooling techniques. Physical Review D, 2000, 62, .	4.7	20
154	Quark part of the nonforward BFKL kernel and the â€œbootstrapâ€•for the gluon Reggeization. Physical Review D, 1999, 60, .	4.7	60
155	Triple Pomeron and proton diffraction dissociation. Physical Review D, 1999, 61, .	4.7	2
156	SU(3) surface tension from the lattice with the fixed point action. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 420, 91-96.	4.1	5
157	Fixed point actions in SU(3) gauge theory: surface tension and topology. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 910-912.	0.4	0
158	Fixed point actions and on-shell tree-level Symanzik improvement. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 437, 123-130.	4.1	0
159	Instanton classical solutions of SU(3) fixed point actions on open lattices. Physical Review D, 1998, 58, .	4.7	5
160	Renormalization group flow and fixed point of the lattice topological charge in the 2D O(3)Ïƒ model. Physical Review D, 1997, 55, 2274-2282.	4.7	13
161	SU(3) thermodynamics on small lattices. Nuclear Physics B, 1996, 478, 335-348.	2.5	31
162	The absence of cut-off effects for the fixed-point action in one-loop perturbation theory. Nuclear Physics B, 1995, 454, 638-644.	2.5	28

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163	Scaling and topology in the 2-d O(3) σ-model on the lattice with the fixed point action. Nuclear Physics B, 1995, 456, 313-335.	2.5	10
164	Heating and small-size instantons in the O(3) σ model on the lattice. Nuclear Physics B, 1994, 431, 686-708.	2.5	20
165	Topological charge on the lattice. The 2D CPNâˆ'1 model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1993, 306, 108-114.	4.1	8
166	Topological susceptibility on the lattice: The two-dimensional O(3)σ model. Physical Review D, 1992, 46, 4630-4642.	4.7	17
167	The topological susceptibility of the 2D O(3) σ model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 276, 148-154.	4.1	16