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	LHC forward physics. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 110201.	3.6	99
2	Electroproduction of two light vector mesons in the next-to-leading approximation. Nuclear Physics B, 2006, 732, 183-199.	2.5	64
3	Critical line of $2+1$ flavor QCD: Toward the continuum limit. Physical Review D, 2016, 93, .	4.7	64
4	Critical line of two-flavor QCD at finite isospin or baryon densities from imaginary chemical potentials. Physical Review D, 2012, 85, .	4.7	61
5	Quark part of the nonforward BFKL kernel and the "bootstrap" for the gluon Reggeization. Physical Review D, 1999, 60, .	4.7	60
6	Mueller–Navelet small-cone jets at LHC in next-to-leading BFKL. Nuclear Physics B, 2013, 877, 73-94.	2.5	60
7	Mueller–Navelet jets in next-to-leading order BFKL: theory versus experiment. European Physical Journal C, 2014, 74, 1.	3.9	58
8	The Forward Physics Facility: Sites, experiments, and physics potential. Physics Reports, 2022, 968, 1-50.	25.6	57
9	Analytic continuation of the critical line: Suggestions for QCD. Physical Review D, 2009, 80, .	4.7	53
10	Critical line of $2+1$ flavor QCD. Physical Review D, 2014, 89, .	4.7	51
11	Gluon impact factors. Physical Review D, 2000, 61, .	4.7	49
12	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
13	Mueller–Navelet jets at LHC: BFKL versus high-energy DGLAP. European Physical Journal C, 2015, 75, 1.	3.9	49
14	The impact factor for the virtual photonto light vector meson transition. European Physical Journal C, 2004, 38, 195-213.	3.9	47
15	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
16	Quark impact factors. Physical Review D, 2000, 61, .	4.7	43
17	Chromoelectric flux tubes and coherence length in QCD. Physical Review D, 2012, 86, .	4.7	43
18	The next-to-leading order forward jet vertex in the small-cone approximation. Journal of High Energy Physics, 2012, 2012, 1.	4.7	41

#	ARTICLE	IF	CITATIONS
19	Brodsky-Lepage-Mackenzie optimal renormalization scale setting for semihard processes. Physical Review D, 2015, 91, .	4.7	41
20	Flux tubes in the SU(3) vacuum: London penetration depth and coherence length. Physical Review D, 2014, 89, .	4.7	39
21	Muellerâ€"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
22	Unintegrated gluon distribution from forward polarized $$ho $$ Ï•-electroproduction. European Physical Journal C, 2018, 78, 1.	3.9	34
23	Analytic continuation from imaginary to real chemical potential in two-color QCD. Journal of High Energy Physics, 2007, 2007, 066-066.	4.7	33
24	Flux tubes at finite temperature. Journal of High Energy Physics, 2016, 2016, 1.	4.7	33
25	Real and imaginary chemical potential in 2-color QCD. Physical Review D, 2004, 69, .	4.7	32
26	Flux tubes in the QCD vacuum. Physical Review D, 2017, 95, .	4.7	32
27	SU(3) thermodynamics on small lattices. Nuclear Physics B, 1996, 478, 335-348.	2.5	31
28	Numerical study of the phase transitions in the two-dimensional Z(5) vector model. Physical Review E, 2011, 83, 041120.	2.1	31
29	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
30	High energy resummation in dihadron production at the LHC. Physical Review D, 2016, 94, .	4.7	30
31	Dihadron production at the LHC: full next-to-leading BFKL calculation. European Physical Journal C, 2017, 77, 1.	3.9	30
32	BFKL resummation effects inÂtheÂÎ³ * Î³ *ÂtotalÂhadronicÂcrossÂsection. European Physical Journal C, 2008, 58, 1-7.	3.9	29
33	High-energy resummed distributions for the inclusive Higgs-plus-jet production at the LHC. European Physical Journal C, 2021, 81, 1.	3.9	29
34	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
35	Chromoelectric flux tubes in QCD. Physical Review D, 2011, 83, .	4.7	28
36	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

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37	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
38	Hadron-jet correlations in high-energy hadronic collisions at the LHC. European Physical Journal C, 2018, 78, 1.	3.9	27
39	High-energy resummation in heavy-quark pair hadroproduction. European Physical Journal C, 2019, 79, 1.	3.9	27
40	Analytic model of Regge trajectories. European Physical Journal A, 2001, 10, 217-221.	2.5	26
41	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
42	High-energy resummation in $$Lambda \_c$$ baryon production. European Physical Journal C, 2021, 81, 1.	3.9	26
43	Critical line from imaginary to real baryonic chemical potentials in two-color QCD. Physical Review D, 2008, 77, .	4.7	25
44	Inclusive production of a heavy-light dijet system in hybrid high-energy and collinear factorization. Physical Review D, 2021, 103, .	4.7	25
45	A proof of fulfillment of the strong bootstrap condition. Nuclear Physics B, 2002, 640, 309-330.	2.5	24
46	Phase diagram of QCD with four degenerate quarks. Physical Review D, 2010, 81, .	4.7	24
47	The dipole form of the gluon part of the BFKL kernel. Nuclear Physics B, 2007, 784, 49-71.	2.5	23
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	Diffractive production of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="normal">Î</mml:mi></mml:math> hyperons in the high-energy limit of strong interactions. Physical Review D, 2020, 102, .	4.7	22
50	On the coordinate representation of NLO BFKL. Nuclear Physics B, 2007, 769, 108-123.	2.5	21
51	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
52	Isolating the confining color field in the SU(3) flux tube. European Physical Journal C, 2019, 79, 1.	3.9	21
53	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
54	Heating and small-size instantons in the O(3) Ïƒ model on the lattice. Nuclear Physics B, 1994, 431, 686-708.	2.5	20

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55	One-loop Reggeon-Reggeon-gluon vertex at arbitrary space-time dimension. Physical Review D, 2000, 63, .	4.7	20
56	Topology in 2DCPNâˆ1models on the lattice: A critical comparison of different cooling techniques. Physical Review D, 2000, 62, .	4.7	20
57	Strong bootstrap conditions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 495, 329-337.	4.1	19
58	Ultrahigh energy neutrino-nucleon interactions. Physical Review D, 2003, 68, .	4.7	19
59	Inclusive Hadron-jet Production at the LHC. Acta Physica Polonica B, Proceedings Supplement, 2019, 12, 773.	0.1	19
60	Spectrum of screening masses nearTc:Predictions from universality. Physical Review D, 2003, 67, .	4.7	18
61	Asymptotic neutrino-nucleon cross section and saturation effects. Physical Review D, 2006, 73, .	4.7	18
62	Exclusive production of $$ho $$-mesons in high-energy factorization at HERA and EIC. European Physical Journal C, 2021, 81, 1.	3.9	18
63	Topological susceptibility on the lattice: The two-dimensional O(3)Ïƒ model. Physical Review D, 1992, 46, 4630-4642.	4.7	17
64	Behavior near<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î¸</mml:mi><mml:mo>=</mml:mo><mml:mi>Ï€</mml:mi> the mass gap in the two-dimensional O(3) nonlinear sigma model. Physical Review B, 2014, 90, .		17
65	The topological susceptibility of the 2D O(3) Ïƒ model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 276, 148-154.	4.1	16
66	Phase transitions in two-dimensionalZ(N)vector models forN>4. Physical Review E, 2012, 85, 021114.	2.1	16
67	The Î³ * Î³ * total cross section in next-to-leading order BFKL and LEP2 data. Journal of High Energy Physics, 2014, 2014, 1.	4.7	15
68	Dihadron production at LHC: BFKL predictions for cross sections and azimuthal correlations. AIP Conference Proceedings, 2017, , .	0.4	15
69	Bottom-flavored inclusive emissions in the variable-flavor number scheme: A high-energy analysis. Physical Review D, 2021, 104, .	4.7	15
70	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
71	The confining color field in SU(3) gauge theory. European Physical Journal C, 2020, 80, 1.	3.9	14
72	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

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73	QED3on a space-time lattice: Compact versus noncompact formulation. Physical Review D, 2005, 72, .	4.7	12
74	Critical behavior of 3D $Z(N)$ lattice gauge theories at zero temperature. Nuclear Physics B, 2014, 879, 80-97.	2.5	11
75	Scaling and topology in the 2-d 0(3) σ-model on the lattice with the fixed point action. Nuclear Physics B, 1995, 456, 313-335.	2.5	10
76	Critical behavior of the compact 3D $U(1)$ theory in the limit of zero spatial coupling. Journal of Statistical Mechanics: Theory and Experiment, 2008, 2008, P08009.	2.3	10
77	Möbius invariant BFKL equation for the adjoint representation inN=4SUSY. Nuclear Physics B, 2013, 874, 230-242.	2.5	10
78	J/Ïˆphotoproduction at DESY HERA. Physical Review D, 2002, 65, .	4.7	9
79	Screening masses in the SU(3) pure gauge theory and universality. Nuclear Physics B, 2007, 785, 19-33.	2.5	9
80	Critical behavior of the compact 3D $U(1)$ gauge theory on isotropic lattices. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P04015.	2.3	9
81	Connection between complete and Möbius forms of gauge invariant operators. Nuclear Physics B, 2012, 856, 111-124.	2.5	9
82	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
83	Finite sum of gluon ladders and high energy cross sections. Physical Review D, 2001, 63, .	4.7	8
84	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
85	Ultraforward production of a charmed hadron plus a Higgs boson in unpolarized proton collisions. Physical Review D, 2022, 105, .	4.7	8
86	The spectrum of massive excitations of 3d 3-state Potts model and universality. Nuclear Physics B, 2007, 767, 385-398.	2.5	7
87	Low-x QCD studies with forward jets in proton-proton collisions at sâ€‰=â€‰14â€‰TeV. , 2009, , .		7
88	QCD flux tubes across the deconfinement phase transition. EPJ Web of Conferences, 2018, 175, 12006.	0.3	7
89	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
90	Finite temperature 2-color QCD for real and imaginary chemical potential. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 529-531.	0.4	6

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91	Difference between standard and quasi-conformal BFKL kernels. Nuclear Physics B, 2012, 865, 67-82.	2.5	6
92	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
93	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
94	Traffic models and traffic-jam transition in quantum (N+1)-level systems. SciPost Physics Core, 2022, 5, .	2.8	6
95	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
96	Instanton classical solutions of SU(3) fixed point actions on open lattices. Physical Review D, 1998, 58, .	4.7	5
97	Resonance masses and widths from nonlinear Regge trajectories. Nuclear Physics, Section B, Proceedings Supplements, 2001, 99, 68-71.	0.4	5
98	Strong bootstrap conditions for the NLO gluon Reggeization in QCD. Nuclear Physics, Section B, Proceedings Supplements, 2001, 99, 222-225.	0.4	5
99	Finite-size scaling and the deconfinement transition in gauge theories. Physical Review D, 2001, 63, .	4.7	5
100	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
101	Chiral symmetry breaking in planar QED in external magnetic fields. Physical Review D, 2012, 85, .	4.7	5
102	Phase transitions in strongly coupled three-dimensional Z(<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 312 Td (xmlns:mml="http:/ Physical Review E, 2012, 86, 051131.	2.1	5
103	Phase structure of 3D lattice gauge theories at finite temperature. Nuclear Physics B, 2013, 870, 159-175.	2.5	5
104	Three-quark potentials in an SU(3) effective Polyakov loop model. Nuclear Physics B, 2019, 940, 214-238.	2.5	5
105	BFKL effects and central rapidity dependence in Mueller-Navelet jet production at 13 TeV LHC. , 2016, , .		5
106	High-energy effects in forward inclusive dijet and hadron-jet production. , 2019, , .		5
107	High-energy resummation in inclusive hadroproduction of Higgs plus jet. SciPost Physics Proceedings, 2022, , .	0.4	5
108	Exclusive emissions of rho-mesons and the unintegrated gluon distribution. SciPost Physics Proceedings, 2022, , .	0.4	5

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109	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
110	Inclusive production of two rapidity-separated heavy quarks as a probe of BFKL dynamics. , 2019, , .		4
111	Hybrid high-energy/collinear factorization in a heavy-light dijets system reaction. SciPost Physics Proceedings, 2022, , .	0.4	4
112	Topology in CPNⁱ1 models: a critical comparison of different cooling techniques. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 530-532.	0.4	3
113	Finite-size scaling and deconfinement transition in gauge theories. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 486-488.	0.4	3
114	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
115	Non-compact QED3at finite temperature: the confinement-deconfinement transition. Journal of High Energy Physics, 2008, 2008, 055-055.	4.7	3
116	Phase structure of 3DZ(N)lattice gauge theories at finite temperature: Large- N and continuum limits. Nuclear Physics B, 2014, 888, 52-64.	2.5	3
117	Flux Tubes in QCD with (2+1) HISQ Fermions. , 2017, , .		3
118	Triple Pomeron and proton diffraction dissociation. Physical Review D, 1999, 61, .	4.7	2
119	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
120	Berezinskii-Kosterlitz-Thouless phase transitions in two-dimensional non-Abelian spin models. Physical Review E, 2016, 94, 012108.	2.1	2
121	Finite density 2D O(3) sigma model: Dualization and numerical simulations. Physical Review D, 2018, 98, .	4.7	2
122	Numerical test of Polyakov loop models in high temperature SU(2). Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 583-585.	0.4	1
123	Analytic continuation in two-color QCD: new results on the critical line. Nuclear Physics A, 2009, 820, 239c-242c.	1.5	1
124	Low-x evolution equations in Möbius representation. Physics of Particles and Nuclei, 2010, 41, 935-938.	0.7	1
125	Quasi-conformal shape of the BFKL kernel and impact factors for scattering of colourless particles. , 2011, , .		1
126	Mueller–Navelet jets in next-to-leading order BFKL: theory versus experiment. , 2014, 74, 1.		1

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127	Analytical continuation from imaginary to real chemical potential in two-color QCD under scrutiny. , 2006, , .		1
128	Flux tubes and coherence length in the SU(3) vacuum. , 2014, , .		1
129	London penetration depth and coherence length of SU(3) vacuum flux tubes. , 2015, , .		1
130	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
131	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
132	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
133	NLO BFKL in $\hat{I}^3\hat{a}$—$\hat{I}^3\hat{a}$— collisions. , 2009, , .		0
134	Preface: Diffraction 2012. , 2013, , .		0
135	Mueller-Navelet jets in high-energy hadron collisions. , 2013, , .		0
136	NLO forward jet vertex. , 2013, , .		0
137	Inclusive production of a pair of identified, rapidity-separated hadrons in proton collisions. , 2013, , .		0
138	Semihard processes with BLM renormalization scale setting. AIP Conference Proceedings, 2015, , .	0.4	0
139	The $\hat{I}^3*\hat{I}^3*$ total cross section in NLA BFKL. AIP Conference Proceedings, 2015, , .	0.4	0
140	Fulfillment of the Strong Bootstrap Condition. , 2003, , 247-256.		0
141	QED_3 on a space-time lattice: a comparison between compact and noncompact formulation. , 2005, , .		0
142	Vector Meson Production from NLL BFKL. , 2007, , .		0
143	NLO BFKL at work: the electroproduction of two light vector mesons. , 2007, , .		0
144	Electroproduction of two-light vector mesons from collinearly improved BFKL kernel. , 2008, , .		0

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145	Numerical Study of the mass spectrum in the 2D O(3) sigma model with a theta term. , 2008, , .		0
146	Analytic continuation of the critical line in 2-color QCD at nonzero temperature and density. , 2008, , .		0
147	Universality and massive excitations in 3d 3-state Potts model. , 2008, , .		0
148	Analytic continuation in QCD-like theories at finite density and finite isospin. , 2010, , .		0
149	On the analytic continuation of the critical line. , 2010, , .		0
150	Critical behavior of the compact 3D U(1) gauge theory at finite temperature. , 2011, , .		0
151	The critical line of QCD with four degenerate quarks. , 2011, , .		0
152	Critical properties of the two-dimensional Z(5) vector model. , 2011, , .		0
153	Critical properties of 2D Z(N) vector models for N>4. , 2012, , .		0
154	Lattice Planar QED in external magnetic field. , 2012, , .		0
155	Phase diagram of QCD with two degenerate staggered quarks. , 2012, , .		0
156	Flux tubes in the SU(3) vacuum. , 2012, , .		0
157	Two-flavor QCD at finite quark or isospin density. , 2012, , .		0
158	BKT phase transitions in strongly coupled 3D Z(N) LGT at finite temperature. , 2012, , .		0
159	Phase transitions in the three-dimensional Z(N) models. , 2014, , .		0
160	A new approach to the two-dimensional $sigma$ model with a topological charge. , 2014, , .		0
161	Critical properties of 3D Z(N) lattice gauge theories at finite temperature. , 2014, , .		0
162	Curvature of the QCD critical line with 2+1 HISQ fermions. , 2015, , .		0

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163	Critical behavior and continuum scaling of 3D Z(N) lattice gauge theories. , 2015, , .		0
164	Anatomy of SU(3) flux tubes at finite temperature. , 2016, , .		0
165	Curvature of the pseudocritical line in (2+1)-flavor QCD with HISQ fermions. , 2016, , .		0
166	Spatial structure of the color field in the SU(3) flux tube. , 2019, , .		0
167	On the Lorentz-Invariance of the Dyson Series in Theories with Derivative Couplings. Ukrainian Journal of Physics, 2021, 66, 945.	0.2	0