

Daniele Binosi

List of Publications by Year in descending order

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108
papers

5,510
citations

76326

40
h-index

79698

73
g-index

109
all docs

109
docs citations

109
times ranked

1827
citing authors

#	ARTICLE	IF	CITATIONS
1	JaxoDraw: A graphical user interface for drawing Feynman diagrams. Computer Physics Communications, 2004, 161, 76-86.	7.5	534
2	Gluon and ghost propagators in the Landau gauge: Deriving lattice results from Schwinger-Dyson equations. Physical Review D, 2008, 78, .	4.7	405
3	Pinch technique: Theory and applications. Physics Reports, 2009, 479, 1-152.	25.6	323
4	Quantum information processing and communication. European Physical Journal D, 2005, 36, 203-228.	1.3	272
5	JaxoDraw: A graphical user interface for drawing Feynman diagrams. Version 2.0 release notes. Computer Physics Communications, 2009, 180, 1709-1715.	7.5	261
6	Bridging a gap between continuum-QCD and ab initio predictions of hadron observables. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 183-188.	4.1	175
7	Nonperturbative comparison of QCD effective charges. Physical Review D, 2009, 80, .	4.7	153
8	Quark flavor effects on gluon and ghost propagators. Physical Review D, 2012, 86, .	4.7	143
9	Pion and kaon structure at the electron-ion collider. European Physical Journal A, 2019, 55, 1.	2.5	110
10	Process-independent strong running coupling. Physical Review D, 2017, 96, .	4.7	105
11	Pinch technique to all orders. Physical Review D, 2002, 66, .	4.7	88
12	Symmetry preserving truncations of the gap and Bethe-Salpeter equations. Physical Review D, 2016, 93, .	4.7	86
13	Vortex solitons in photonic crystal fibers. Optics Express, 2004, 12, 817.	3.4	83
14	Natural constraints on the gluon-quark vertex. Physical Review D, 2017, 95, .	4.7	77
15	On the zero crossing of the three-gluon vertex. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 761, 444-449.	4.1	76
16	Spectral functions of confined particles. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 801, 135171.	4.1	76
17	Symmetry, symmetry breaking, and pion parton distributions. Physical Review D, 2020, 101, .	4.7	75
18	Pinch technique self-energies and vertices to all orders in perturbation theory. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, 203-234.	3.6	74

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19	Unquenching the gluon propagator with Schwinger-Dyson equations. Physical Review D, 2012, 86, .	4.7	73
20	Spatial soliton formation in photonic crystal fibers. Optics Express, 2003, 11, 452.	3.4	71
21	QCD effective charges from lattice data. Journal of High Energy Physics, 2010, 2010, 1.	4.7	71
22	The gluon mass generation mechanism: A concise primer. Frontiers of Physics, 2016, 11, 1.	5.0	71
23	Effects of divergent ghost loops on the Green's functions of QCD. Physical Review D, 2014, 89, .	4.7	66
24	Effective charge from lattice QCD *. Chinese Physics C, 2020, 44, 083102.	3.7	66
25	Kaon and pion parton distributions. European Physical Journal C, 2020, 80, 1.	3.9	65
26	New method for determining the quark-gluon vertex. Physical Review D, 2014, 90, .	4.7	64
27	Pinch technique and the Batalin-Vilkovisky formalism. Physical Review D, 2002, 66, .	4.7	62
28	New Schwinger-Dyson equations for non-Abelian gauge theories. Journal of High Energy Physics, 2008, 2008, 063-063.	4.7	62
29	Gauge-invariant truncation scheme for the Schwinger-Dyson equations of QCD. Physical Review D, 2008, 77, .	4.7	60
30	Revealing the structure of light pseudoscalar mesons at the electron-ion collider. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 075106.	3.6	58
31	Yang-Mills two-point functions in linear covariant gauges. Physical Review D, 2015, 91, .	4.7	57
32	Dynamical equation of the effective gluon mass. Physical Review D, 2011, 84, .	4.7	54
33	$\langle \hat{t}^a \rangle = \frac{1}{N_c} \text{Tr} \left[\hat{t}^a \frac{\delta \Gamma}{\delta \psi} \right]$ transition form factors. Physical Review D, 2019, 99, .	4.7	52
34	Lattice gluon propagator in renormalizable $\overline{\text{MS}}$ gauges. Physical Review D, 2015, 92, .	4.7	51
35	The European quantum technologies flagship programme. Quantum Science and Technology, 2017, 2, 030501.	5.8	50
36	All-order equation of the effective gluon mass. Physical Review D, 2012, 86, .	4.7	48

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37	Process-Independent Effective Coupling: From QCD Greenâ€™s Functions to Phenomenology. Few-Body Systems, 2018, 59, 1.	1.5	45
38	Indirect determination of the Kugo-Ojima function from lattice data. Journal of High Energy Physics, 2009, 2009, 066-066.	4.7	44
39	Nucleon-to-Roper electromagnetic transition form factors at large Q^2 . Physical Review D, 2019, 99, .	4.7	43
40	Renormalization group analysis of the gluon mass equation. Physical Review D, 2014, 89, .	4.7	40
41	Drawing insights from pion parton distributions *. Chinese Physics C, 2020, 44, 031002.	3.7	39
42	Nonperturbative study of the four gluon vertex. Journal of High Energy Physics, 2014, 2014, 1.	4.7	38
43	Distribution amplitudes of heavy-light mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 790, 257-262.	4.1	37
44	Domain wall junctions in a generalized Wess-Zumino model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 476, 124-133.	4.1	36
45	Scale-setting, flavor dependence, and chiral symmetry restoration. Physical Review D, 2017, 95, .	4.7	34
46	Higgs modulation of emergent mass as revealed in kaon and pion parton distributions. European Physical Journal A, 2021, 57, 1.	2.5	34
47	Forward-backward equations for nonlinear propagation in axially invariant optical systems. Physical Review E, 2005, 71, 016601.	2.1	33
48	Evidence of ghost suppression in gluon mass scale dynamics. European Physical Journal C, 2018, 78, 1.	3.9	33
49	Elastic electromagnetic form factors of vector mesons. Physical Review D, 2019, 100, .	4.7	33
50	Unified description of seagull cancellations and infrared finiteness of gluon propagators. Physical Review D, 2016, 94, .	4.7	31
51	Schwinger mechanism in linear covariant gauges. Physical Review D, 2017, 95, .	4.7	31
52	Emergent Hadron Mass in Strong Dynamics. Few-Body Systems, 2022, 63, 1.	1.5	31
53	Gluon mass generation in the presence of dynamical quarks. Physical Review D, 2013, 88, .	4.7	29
54	Nucleon elastic form factors at accessible large spacelike momenta. Physical Review D, 2020, 102, .	4.7	29

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55	Background field method as a canonical transformation. Physical Review D, 2012, 85, .	4.7	27
56	Increasing entanglement through engineered disorder in the random Ising chain. Physical Review B, 2007, 76, .	3.2	26
57	Concerning pion parton distributions. European Physical Journal A, 2022, 58, 1.	2.5	25
58	Emergence of pion parton distributions. Physical Review D, 2022, 105, .	4.7	24
59	Domain walls in supersymmetric QCD: The taming of the zoo. Physical Review D, 2001, 63, .	4.7	23
60	Electroweak pinch technique to all orders. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, 1021-1064.	3.6	23
61	Coupled dynamics in gluon mass generation and the impact of the three-gluon vertex. Physical Review D, 2018, 97, .	4.7	23
62	Gauge invariant Ansatz for a special three-gluon vertex. Journal of High Energy Physics, 2011, 2011, 1.	4.7	22
63	Anti-BRST symmetry and background field method. Physical Review D, 2013, 88, .	4.7	22
64	The QCD effective charge to all orders. Nuclear Physics, Section B, Proceedings Supplements, 2003, 121, 281-284.	0.4	21
65	Vector-meson production and vector meson dominance. European Physical Journal C, 2021, 81, 1.	3.9	20
66	Nonperturbative gluon and ghost propagators for $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mi>d</mml:mi> \langle \text{mml:mo>=</mml:mo> \langle \text{mml:mn>3</mml:mn> \langle \text{mml:math>Yang-Mills theory. Physical Review D, 2010, 81, .$	4.7	19
67	Gluon mass through ghost synergy. Journal of High Energy Physics, 2012, 2012, 1.	4.7	19
68	Fresh Extraction of the Proton Charge Radius from Electron Scattering. Physical Review Letters, 2021, 127, 092001.	7.8	19
69	Quantum scalar field on the massless(2+1)-dimensional black hole background. Physical Review D, 1999, 59, .	4.7	17
70	The effective neutrino charge radius in the presence of fermion masses. Nuclear Physics B, 2005, 716, 352-372.	2.5	17
71	Semileptonic decays of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mrow> \langle \text{mml:mo> \langle \text{mml:mi>s</mml:mi> \langle \text{mml:mo> \langle \text{mml:mi>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 97 Td (stretchy="false")</mml:math>$	4.7	17
72	Semileptonic $B \rightarrow \pi \ell \nu$ transitions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 818, 136344.	4.1	16

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73	Pion charge radius from pion+electron elastic scattering data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136631.	4.1	16
74	Valence Quark Ratio in the Proton. Chinese Physics Letters, 2022, 39, 041401.	3.3	15
75	Displacement operator formalism for renormalization and gauge dependence to all orders. Physical Review D, 2005, 71, .	4.7	14
76	Slavnov-Taylor constraints for nontrivial backgrounds. Physical Review D, 2011, 84, .	4.7	14
77	Semileptonic transitions: $B \rightarrow \pi^+ \pi^- (K); D \rightarrow \pi^+ \pi^- K; D \rightarrow \pi^+ \pi^- \bar{K};$ and $K \rightarrow \pi^+ \pi^- \bar{K}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 824, 136793.	4.1	14
78	QCD effective charge from the three-gluon vertex of the background-field method. Physical Review D, 2013, 87, .	4.7	13
79	Off-shell renormalization in the presence of dimension 6 derivative operators. Part I. General theory. Journal of High Energy Physics, 2019, 2019, 1.	4.7	12
80	Distribution amplitudes of light diquarks. European Physical Journal A, 2021, 57, 1.	2.5	12
81	Canonical transformations and renormalization group invariance in the presence of nontrivial backgrounds. Physical Review D, 2012, 85, .	4.7	11
82	Off-shell renormalization in Higgs effective field theories. Journal of High Energy Physics, 2018, 2018, 1.	4.7	11
83	Leaving the BPS bound: Tunneling of classically saturated solitons. Physical Review D, 2000, 63, .	4.7	10
84	Gauge-independent off-shell fermion self-energies at two loops: The cases of QED and QCD. Physical Review D, 2002, 65, .	4.7	10
85	Two-loop pinch technique in the electroweak sector. Physical Review D, 2002, 66, .	4.7	10
86	The effective neutrino charge radius. European Physical Journal C, 2004, 33, s865-s867.	3.9	9
87	CP violation through particle mixing and the H-Alineshape. Journal of High Energy Physics, 2006, 2006, 023-023.	4.7	9
88	Pinch technique for Schwinger-Dyson equations. Journal of High Energy Physics, 2007, 2007, 041-041.	4.7	9
89	Quantum scalar field in D-dimensional static black hole space \times time. Journal of Mathematical Physics, 1999, 40, 5106-5116.	1.1	7
90	Scalar resonances in the non-linearly realized electroweak theory. Journal of High Energy Physics, 2013, 2013, 1.	4.7	7

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91	Off-shell renormalization in the presence of dimension 6 derivative operators. Part III. Operator mixing and $\hat{\Gamma}^2$ functions. Journal of High Energy Physics, 2020, 2020, 1.	4.7	7
92	Off-shell renormalization in the presence of dimension $\hat{\Lambda}^6$ derivative operators. II. Ultraviolet coefficients. European Physical Journal C, 2020, 80, 1.	3.9	7
93	Pauli Radius of the Proton. Chinese Physics Letters, 2021, 38, 121401.	3.3	6
94	The lifetime of unstable particles in electromagnetic fields. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 045001.	3.6	4
95	From continuum QCD to hadron observables. EPJ Web of Conferences, 2016, 113, 05002.	0.3	4
96	Form factors for the Nucleon-to-Roper electromagnetic transition at large-Q ² . EPJ Web of Conferences, 2020, 241, 02009.	0.3	4
97	Single-spin asymmetry parameter from deeply virtual Compton scattering of hadrons up to twist-3 accuracy. European Physical Journal A, 2002, 14, 95-103.	2.5	3
98	Three-gluon Green functions: low-momentum instanton dominance and zero-crossing. EPJ Web of Conferences, 2017, 137, 03018.	0.3	3
99	Renormalization group equation for weakly power-counting renormalizable theories. European Physical Journal C, 2014, 74, 1.	3.9	2
100	High-energy QCD evolution from BRST symmetry. European Physical Journal C, 2014, 74, 1.	3.9	2
101	Mass generation in Yang-Mills theories. EPJ Web of Conferences, 2017, 164, 03005.	0.3	2
102	BRST-driven cancellations and gauge invariant Green's functions. Nuclear Physics, Section B, Proceedings Supplements, 2004, 133, 281-284.	0.4	1
103	Quantum Information Classification Scheme. European Physical Journal D, 2006, 38, 237-237.	1.3	0
104	CP violation and the H-A lineshape. Journal of Physics: Conference Series, 2008, 110, 072031.	0.4	0
105	The IR sector of QCD: lattice versus Schwinger-Dyson equations. , 2010, , .		0
106	A dynamical study of the Kugo-Ojima function. , 2011, , .		0
107	The two-, three- and four-gluon sector of QCD in the Landau gauge. Journal of Physics: Conference Series, 2015, 631, 012066.	0.4	0
108	Title is missing!. Acta Physica Polonica B, Proceedings Supplement, 2012, 5, 993.	0.1	0