

# Attilio Cucchieri

## List of Publications by Year in descending order

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102  
papers

2,656  
citations

201674

27  
h-index

189892

50  
g-index

102  
all docs

102  
docs citations

102  
times ranked

416  
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattice Gluon Propagator and One-Gluon-Exchange Potential. Brazilian Journal of Physics, 2019, 49, 548-563.	1.4	3
2	Lattice Computation of the Ghost Propagator in Linear Covariant Gauges. , 2019, , .		2
3	Ghost Sector in Minimal Linear Covariant Gauge. , 2019, , .		1
4	Faddeev-Popov matrix in linear covariant gauge: First results. Physical Review D, 2018, 98, .	4.7	8
5	Bloch Waves in Minimal Landau Gauge and the Infinite-Volume Limit of Lattice Gauge Theory. Physical Review Letters, 2017, 118, 192002.	7.8	7
6	Long-Distance Properties of Landau Gluon and Ghost Propagators and Deconfinement. , 2017, , .		0
7	Heavy-Quarkonium Potential from Lattice Gluon Propagator. Journal of Physics: Conference Series, 2016, 706, 052038.	0.4	1
8	Modeling the Landau-gauge ghost propagator in 2, 3, and 4 spacetime dimensions. Physical Review D, 2016, 93, .	4.7	22
9	Numerical evaluation of the Bose-ghost propagator in minimal Landau gauge on the lattice. Physical Review D, 2016, 94, .	4.7	2
10	Further Study of BRST-Symmetry Breaking on the Lattice. , 2016, , .		0
11	Gluonic Correlations at Deconfinement. , 2015, , .		1
12	Evidence of BRST-Symmetry Breaking in Lattice Minimal Landau Gauge. , 2015, , .		0
13	BRST-symmetry breaking and Bose-ghost propagator in lattice minimal Landau gauge. Physical Review D, 2014, 90, .	4.7	32
14	SU(2) Landau Gluon Propagator Around Criticality. Acta Physica Polonica B, Proceedings Supplement, 2014, 7, 559.	0.1	3
15	SU(2) Lattice Gluon Propagator and Potential Models. , 2014, , .		0
16	Systematic Effects at Criticality for the SU(2)-Landau-Gauge Gluon Propagator. , 2014, , .		0
17	Crossing the Gribov horizon: an unconventional study of geometric properties of gauge-configuration space in Landau gauge. , 2014, , .		0
18	Ghost sector and geometry in minimal Landau gauge: Further constraining the infinite-volume limit. Physical Review D, 2013, 88, .	4.7	16

#	ARTICLE	IF	CITATIONS
19	Modeling the gluon propagator in Landau gauge: Lattice estimates of pole masses and dimension-two condensates. Physical Review D, 2012, 85, .	4.7	127
20	No-pole condition in Landau gauge: Properties of the Gribov ghost form factor and a constraint on the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mi} \rangle d \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ gluon propagator. Physical Review D, 2012, 85, .	4.7	22
21	Minimal Landau background gauge on the lattice. Physical Review D, 2012, 86, .	4.7	15
22	Ghost dissection. , 2012, , .		2
23	Electric and magnetic screening masses around the deconfinement transition. , 2012, , .		2
24	Infrared behavior and infinite-volume limit of gluon and ghost propagators in Yang-Mills theories. , 2012, , .		0
25	Propagators in Yang-Mills theory for different gauges. , 2012, , .		0
26	Feynman Gauge on the Lattice: New Results and Perspectives. , 2011, , .		17
27	The Saga of Landau-Gauge Propagators: Gathering New Ammo. , 2011, , .		19
28	Gluon propagators in linear covariant gauge. , 2011, , .		5
29	Further investigation of massive Landau-gauge propagators in the infrared limit. , 2011, , .		0
30	Electric and magnetic Landau-gauge gluon propagators in finite-temperature SU(2) gauge theory. , 2011, , .		2
31	Landau-gauge propagators in Yang-Mills theories at $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \hat{I}^2 \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 0 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ : Massive solution versus conformal scaling. Physical Review D, 2010, 81, .	4.7	117
32	Numerical test of the Gribov-Zwanziger scenario in Landau gauge. , 2010, , .		7
33	Simulating linear covariant gauges on the lattice: a new approach. , 2010, , .		2
34	Covariant Gauge on the Lattice: A New Implementation. Physical Review Letters, 2009, 103, 141602.	7.8	62
35	Linear covariant gauges on the lattice. Computer Physics Communications, 2009, 180, 215-225.	7.5	11
36	Ghost-gluon vertex in the MAG. , 2009, , .		0

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37	Constraints on the infrared behavior of the ghost propagator in Yang-Mills theories. Physical Review D, 2008, 78, .	4.7	182
38	Three-point vertices in Landau-gauge Yang-Mills theory. Physical Review D, 2008, 77, .	4.7	115
39	Constraints on the Infrared Behavior of the Gluon Propagator in Yang-Mills Theories. Physical Review Letters, 2008, 100, 241601.	7.8	305
40	What's up with IR gluon and ghost propagators in Landau gauge? An answer from huge lattices. , 2008, , .		30
41	SU(2) meets SU(3) in lattice-Landau-gauge gluon and ghost propagators. , 2008, , .		0
42	INFRARED-SUPPRESSED GLUON PROPAGATOR IN 4D YANG-MILLS THEORY IN A LANDAU-LIKE GAUGE. Modern Physics Letters A, 2007, 22, 2429-2438.	1.2	18
43	STUDY OF GHOSTS IN MAXIMALLY ABELIAN GAUGE ON THE LATTICE. International Journal of Modern Physics E, 2007, 16, 2935-2938.	1.0	2
44	GLUONIC SCREENING MASSES FOR SU(2) GAUGE THEORY. International Journal of Modern Physics E, 2007, 16, 2939-2942.	1.0	1
45	COMPARING PURE YANG-MILLS SU(2) AND SU(3) PROPAGATORS. International Journal of Modern Physics E, 2007, 16, 2931-2934.	1.0	2
46	Infrared properties of propagators in Landau-gauge pure Yang-Mills theory at finite temperature. Physical Review D, 2007, 75, .	4.7	77
47	Infrared Maximally Abelian Gauge. AIP Conference Proceedings, 2007, , .	0.4	22
48	Lattice Results in Coulomb Gauge. AIP Conference Proceedings, 2007, , .	0.4	10
49	Just how different are the $S$ and $U$ $2$ Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (stretchy="false" xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" style="font-size: 1em; font-family: serif;">S $U$ $2$ Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (stretchy="false" display="inline" style="font-size: 1em; font-family: serif;">S $U$ $2$ Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 267 Td (stretchy="false"		

#	ARTICLE	IF	CITATIONS
55	Numerical simulation of N-vector spin models in a magnetic field. Brazilian Journal of Physics, 2006, 36, 648-651.	1.4	2
56	Equation of state for spin systems with Goldstone bosons: the 3d O(4) case. Journal of Physics A, 2005, 38, 4561-4577.	1.6	8
57	Ghost condensation on the lattice. Physical Review D, 2005, 72, .	4.7	14
58	Positivity violation for the lattice Landau gluon propagator. Physical Review D, 2005, 71, .	4.7	88
59	Numerical Study of the Ghost-Gluon Vertex in Landau gauge. Journal of High Energy Physics, 2004, 2004, 012-012.	4.7	79
60	Running coupling constant from lattice studies of gluon and ghost propagators. AIP Conference Proceedings, 2004, , .	0.4	0
61	Numerical Study of the Chiral Phase Transition for 2-Flavor Lattice QCD. AIP Conference Proceedings, 2004, , .	0.4	0
62	Numerical Study of the Ghost-Ghost-Gluon Vertex on the Lattice. AIP Conference Proceedings, 2004, , .	0.4	1
63	More Efficient Thermalization of Gauge Fields in Lattice QCD Simulations. AIP Conference Proceedings, 2004, , .	0.4	3
64	Temporal correlator in YM[sub 3][sup 2] and reflection-positivity violation. AIP Conference Proceedings, 2004, , .	0.4	0
65	Propagators and running coupling from SU(2) lattice gauge theory. Nuclear Physics B, 2004, 687, 76-100.	2.5	91
66	Percolation of Monte Carlo clusters. Brazilian Journal of Physics, 2004, 34, 247-250.	1.4	5
67	Critical slowing-down in SU(2) Landau-gauge-fixing algorithms at $\hat{\beta}^2 = \hat{\alpha}^{\hat{z}}$ . Computer Physics Communications, 2003, 154, 1-48.	7.5	14
68	Gluon propagator and confinement scenario in Coulomb gauge. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 727-729.	0.4	15
69	Running coupling constant and propagators in SU(2) Landau gauge. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 736-738.	0.4	18
70	SU(2) Landau gluon propagator on a 1403 lattice. Physical Review D, 2003, 67, .	4.7	78
71	VORTEX INDUCED CONFINEMENT AND THE IR PROPERTIES OF GREEN FUNCTIONS. , 2003, , .		4
72	LATTICE SIMULATIONS FOR THE RUNNING COUPLING CONSTANT OF QCD. , 2003, , .		0

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73	Universal amplitude ratios from numerical studies of the three-dimensional O(2) model. Journal of Physics A, 2002, 35, 6517-6543.	1.6	30
74	Fit to gluon propagator and Gribov formula. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 524, 123-128.	4.1	34
75	Confinement made simple in the Coulomb gauge. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 694-696.	0.4	5
76	SU(2) running coupling constant and confinement in minimal Coulomb and Landau gauges. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 697-699.	0.4	12
77	Magnetic screening in hot non-Abelian gauge theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 497, 80-84.	4.1	58
78	Screening in hot SU(2) gauge theory and propagators in 3d adjoint Higgs model. Nuclear Physics, Section B, Proceedings Supplements, 2001, 94, 385-388.	0.4	3
79	Numerical study of the gluon propagator and confinement scenario in the minimal Coulomb gauge. Physical Review D, 2001, 65, .	4.7	52
80	Renormalization-group calculation of the color-Coulomb potential. Physical Review D, 2001, 65, .	4.7	47
81	Propagators and dimensional reduction of hot SU(2) gauge theory. Physical Review D, 2001, 64, .	4.7	65
82	Discretization effects and gauge independence for the electric and magnetic screening masses. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 357-359.	0.4	9
83	Infrared behavior of the gluon propagator in the lattice Landau gauge: The three-dimensional case. Physical Review D, 1999, 60, .	4.7	46
84	Effects of nonperturbative improvement in quenched hadron spectroscopy. Nuclear Physics, Section B, Proceedings Supplements, 1999, 73, 225-227.	0.4	2
85	Numerical study of the gluon propagator in lattice Landau gauge: the three-dimensional case. Nuclear Physics, Section B, Proceedings Supplements, 1999, 73, 632-634.	0.4	2
86	Pseudo-character expansions for U(N)-invariant spin models on CP <sup>N-1</sup> . Annals of Combinatorics, 1999, 3, 287-310.	0.6	1
87	implementation of the fourier acceleration method. Nuclear Physics, Section B, Proceedings Supplements, 1998, 63, 841-843.	0.4	8
88	Non-perturbatively improved quenched hadron spectroscopy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 422, 212-218.	4.1	12
89	Infrared behavior of the gluon propagator in lattice Landau gauge. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 422, 233-237.	4.1	30
90	Numerical study of the fundamental modular region in the minimal Landau gauge. Nuclear Physics B, 1998, 521, 365-379.	2.5	30

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91	Comparison of improved and unimproved quenched hadron spectroscopy. Journal of High Energy Physics, 1998, 1998, 006-006.	4.7	7
92	Multigrid implementation of the Fourier acceleration method for Landau gauge fixing. Physical Review D, 1998, 57, R3822-R3826.	4.7	21
93	Static Color-Coulomb Force. Physical Review Letters, 1997, 78, 3814-3817.	7.8	26
94	Gribov copies in the minimal Landau gauge: The influence on gluon and ghost propagators. Nuclear Physics B, 1997, 508, 353-370.	2.5	47
95	Study of critical slowing-down in SU(2) Landau gauge fixing. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 811-814.	0.4	20
96	Color-Coulomb force calculated from lattice Coulomb Hamiltonian. Nuclear Physics, Section B, Proceedings Supplements, 1997, 53, 815-818.	0.4	3
97	Continuum limits and exact finite-size-scaling functions for one-dimensional O(N)-invariant spin models. Journal of Statistical Physics, 1997, 86, 581-673.	1.2	17
98	Gribov copies in the minimal Landau gauge: The influence on gluon and ghost propagators. Nuclear Physics B, 1997, 508, 353-370.	2.5	84
99	Critical slowing-down in SU(2) Landau gauge-fixing algorithms. Nuclear Physics B, 1996, 471, 263-290.	2.5	57
100	Application of the O(N)-hyperspherical harmonics to the study of the continuum limits of one-dimensional $\phi^4$ -models and to the generation of high-temperature expansions in higher dimensions. Nuclear Physics, Section B, Proceedings Supplements, 1996, 47, 759-762.	0.4	3
101	Tree-level unitarity constraints on the gravitational couplings of higher-spin massive fields. Physical Review D, 1995, 51, 4543-4549.	4.7	43
102	Parallel implementation of a lattice-gauge-theory code: studying quark confinement on PC clusters. , 0, , .		0