Antonio Vairo

List of Publications by Year
in descending order

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62 papers	4,221 citations	136950 32 h-index	123424 61 g-index
62 all docs	62 docs citations	62 times ranked	1665 citing authors

#	Article	IF	Citations
1	Effective-field theories for heavy quarkonium. Reviews of Modern Physics, 2005, 77, 1423-1496.	45.6	559
2	Potential NRQCD: an effective theory for heavy quarkonium. Nuclear Physics B, 2000, 566, 275-310.	2.5	546
3	The <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e24330" altimg="si34.svg"><mml:mrow><mml:mi>X</mml:mi><mml:mi>Y</mml:mi><mml:mi>Z</mml:mi></mml:mrow></mml:math> states: Experimental and theoretical status and perspectives. Physics Reports, 2020, 873, 1-154.	25.6	454
4	Static quark-antiquark pairs at finite temperature. Physical Review D, 2008, 78, .	4.7	318
5	Infrared behavior of the static potential in perturbative QCD. Physical Review D, 1999, 60, .	4.7	162
6	Heavy quarkonium in a weakly-coupled quark-gluon plasma below the melting temperature. Journal of High Energy Physics, 2010, 2010, 1.	4.7	119
7	Effective field theory Lagrangians for baryons with two and three heavy quarks. Physical Review D, 2005, 72, .	4.7	118
8	QCD potential atO(1/m). Physical Review D, 2000, 63, .	4.7	115
9	Quarkonium suppression in heavy-ion collisions: An open quantum system approach. Physical Review D, 2017, 96, .	4.7	102
10	The QCD potential atO(1/m2):Complete spin-dependent and spin-independent result. Physical Review D, 2001, 63, .	4.7	99
11	The heavy quarkonium spectrum at order mÎ±s5lnÎ±s. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 470, 215-222.	4.1	92
12	Heavy quarkonium suppression in a fireball. Physical Review D, 2018, 97, .	4.7	92
13	Model-independent study of magnetic dipole transitions in quarkonium. Physical Review D, 2006, 73, .	4.7	91
14	Quarkonium hybrids with nonrelativistic effective field theories. Physical Review D, 2015, 92, .	4.7	72
15	A lattice determination of QCD field strength correlators. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 421, 265-272.	4.1	68
16	Inclusive decays of heavy quarkonium to light particles. Physical Review D, 2003, 67, .	4.7	64
17	Determination of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Î±</mml:mi><mml:mi>s</mml:mi></mml:msub></mml:math>from the QCD static energy: An update. Physical Review D, 2014, 90, .	4.7	64
18	PoincarÃ© invariance constraints on NRQCD and potential NRQCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 576, 314-327.	4.1	62

#	Article	IF	Citations
19	QCD static energy at next-to-next-to-next-to leading-logarithmic accuracy. Physical Review D, 2009, 80, .	4.7	58
20	Polyakov loop and correlator of Polyakov loops at next-to-next-to-leading order. Physical Review D, 2010, 82, .	4.7	57
21	The logarithmic contribution to the QCD static energy at N4LO. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 647, 185-193.	4.1	55
22	Bcmass up to orderÎ±s4. Physical Review D, 2000, 62, .	4.7	54
23	New Predictions for Inclusive Heavy-QuarkoniumP-Wave Decays. Physical Review Letters, 2001, 88, 012003.	7.8	51
24	Bottomonium suppression in an open quantum system using the quantum trajectories method. Journal of High Energy Physics, 2021, 2021, 1.	4.7	49
25	Hadronic quarkonium decays at order<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>v</mml:mi><mml:mn>7</mml:mn></mml:msup></mml:math>. Physical Review D, 2009, 79, .	4.7	46
26	Long-range properties of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mi>S</mml:mi></mml:mrow></mml:math>bottomonium states. Physical Review D, 2016, 93, .	4.7	41
27	Transport coefficients from in-medium quarkonium dynamics. Physical Review D, 2019, 100, .	4.7	39
28	Born-Oppenheimer approximation in an effective field theory language. Physical Review D, 2018, 97, .	4.7	38
29	Electromagnetic quarkonium decays at orderv7. Journal of High Energy Physics, 2006, 2006, 039-039.	4.7	36
30	Three-quark static potential in perturbation theory. Physical Review D, 2010, 81, .	4.7	35
31	Spin structure of heavy-quark hybrids. Physical Review D, 2019, 99, .	4.7	35
32	Extraction ofÎ±sfrom radiativeÎ¥(1S)decays. Physical Review D, 2007, 75, .	4.7	32
33	The mÎ›QCD scale in heavy quarkonium. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 580, 60-71.	4.1	31
34	PoincarÃ© invariance and the heavy-quark potential. Physical Review D, 2001, 64, .	4.7	30
35	Determination of the QCD coupling from the static energy and the free energy. Physical Review D, 2019, 100, .	4.7	29
36	Bottomonium production in heavy-ion collisions using quantum trajectories: Differential observables and momentum anisotropy. Physical Review D, 2021, 104, .	4.7	29

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37	Effective string theory and the long-range relativistic corrections to the quark-antiquark potential. Physical Review D, 2014, 90, .	4.7	25
38	Model-independent study of electric dipole transitions in quarkonium. Physical Review D, 2012, 85, .	4.7	23
39	A THEORETICAL REVIEW OF HEAVY QUARKONIUM INCLUSIVE DECAYS. Modern Physics Letters A, 2004, 19, 253-269.	1.2	21
40	1Pquarkonium fine splittings at next-to-leading order. Physical Review D, 2005, 71, .	4.7	20
41	Renormalization of the cyclic Wilson loop. Journal of High Energy Physics, 2013, 2013, 1.	4.7	20
42	Symmetries of the three-heavy-quark system and the color-singlet static energy at next-to-next-to-leading logarithmic order. Physical Review D, 2013, 87, .	4.7	17
43	Effective field theories for van der Waals interactions. Physical Review D, 2017, 95, .	4.7	16
44	Polyakov loop correlator in perturbation theory. Physical Review D, 2017, 96, .	4.7	15
45	Inclusive Hadroproduction of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>P</mml:mi></mml:mrow></mml:math> -Wave Heavy Quarkonia in Potential Nonrelativistic QCD. Physical Review Letters, 2021, 126, 082003.	7.8	15
46	Inclusive production of heavy quarkonia in pNRQCD. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
47	Relativistic corrections to exclusive <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Ï‡</mml:mi></mml:mrow><mml:mrow><mml:mi>c</mml:mi><mml:mn> production from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>e</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:msup><mml:mi>e</mml:mi><mml:mo> Physical Review D, 2018, 97, .	4.7	10
48	Electric dipole transitions of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mi>P</mml:mi></mml:math> bottomonia. Physical Review D, 2019, 99, .	4.7	10
49	The spin-orbit potential and PoincarÃ© invariance in finite temperature pNRQCD. Journal of High Energy Physics, 2011, 2011, 1.	4.7	9
50	Some aspects of the quark-antiquark Wilson loop formalism in the NRQCD framework. Nuclear Physics, Section B, Proceedings Supplements, 1999, 74, 201-204.	0.4	8
51	HEAVY HADRON SPECTROSCOPY. International Journal of Modern Physics A, 2007, 22, 5481-5491.	1.5	8
52	PoincarÃ© invariance in NRQCD and potential NRQCD revisited. Physical Review D, 2019, 99, .	4.7	7
53	New results on inclusive quarkonium decays. Nuclear Physics, Section B, Proceedings Supplements, 2003, 115, 166-169.	0.4	6
54	Precise determination of the Î·[sub c] mass and width in the radiative Jâˆ•Ïˆâ†’Î·[sub c]Î³ decay. AIP Conference Proceedings, 2011, , .	0.4	6

#	Article	IF	Citations
55	QCD static force in gradient flow. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
56	Production and polarization of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi></mml:math> -wave quarkonia in potential nonrelativistic QCD. Physical Review D, 2022, 105, .	4.7	6
57	PoincarÃ© invariance constraints on non-relativistic effective field theories. Nuclear Physics, Section B, Proceedings Supplements, 2004, 133, 196-201.	0.4	5
58	Lattice gauge theory computation of the static force. Physical Review D, 2022, 105, .	4.7	5
59	Effective Field Theories for Baryons with Two- and Three-Heavy Quarks. Few-Body Systems, 2011, 49, 263-268.	1.5	4
60	Non-relativistic particles in a thermal bath. EPJ Web of Conferences, 2014, 71, 00135.	0.3	2
61	Quarkonium dissociation in a thermal bath. AIP Conference Proceedings, 2016, , .	0.4	1
62	Quarkonium Suppression in a Strongly-Coupled Quarkâ€“Gluon Plasma. Few-Body Systems, 2017, 58, 1.	1.5	0