

# 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	QCD static force in gradient flow. Journal of High Energy Physics, 2022, 2022, 1.	4.7	6
2	Lattice gauge theory computation of the static force. Physical Review D, 2022, 105, .	4.7	5
3	Production and polarization of $S$ -wave quarkonia in potential nonrelativistic QCD. Physical Review D, 2022, 105, .	4.7	6
4	Inclusive Hadroproduction of $P$ -Wave Heavy Quarkonia in Potential Nonrelativistic QCD. Physical Review Letters, 2021, 126, 082003.	7.8	15
5	Bottomonium suppression in an open quantum system using the quantum trajectories method. Journal of High Energy Physics, 2021, 2021, 1.	4.7	49
6	Inclusive production of heavy quarkonia in pNRQCD. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
7	Bottomonium production in heavy-ion collisions using quantum trajectories: Differential observables and momentum anisotropy. Physical Review D, 2021, 104, .	4.7	29
8	The $XYZ$ and $XYZ$ states: Experimental and theoretical status and perspectives. Physics Reports, 2020, 873, 1-154.	4.7	454
9	Poincaré invariance in NRQCD and potential NRQCD revisited. Physical Review D, 2019, 99, .	4.7	7
10	Electric dipole transitions of $1P$ bottomonia. Physical Review D, 2019, 99, .	4.7	10
11	Transport coefficients from in-medium quarkonium dynamics. Physical Review D, 2019, 100, .	4.7	39
12	Spin structure of heavy-quark hybrids. Physical Review D, 2019, 99, .	4.7	35
13	Determination of the QCD coupling from the static energy and the free energy. Physical Review D, 2019, 100, .	4.7	29
14	Born-Oppenheimer approximation in an effective field theory language. Physical Review D, 2018, 97, .	4.7	38
15	Heavy quarkonium suppression in a fireball. Physical Review D, 2018, 97, .	4.7	92
16	Relativistic corrections to exclusive $c\bar{c}$ production from $e^+e^- \rightarrow c\bar{c} + \text{gluons}$ . Physical Review D, 2018, 97, .	4.7	10
17	Quarkonium Suppression in a Strongly-Coupled Quark-Gluon Plasma. Few-Body Systems, 2017, 58, 1.	1.5	0
18	Quarkonium suppression in heavy-ion collisions: An open quantum system approach. Physical Review D, 2017, 96, .	4.7	102

#	ARTICLE	IF	CITATIONS
19	Polyakov loop correlator in perturbation theory. Physical Review D, 2017, 96, .	4.7	15
20	Effective field theories for van der Waals interactions. Physical Review D, 2017, 95, .	4.7	16
21	Quarkonium dissociation in a thermal bath. AIP Conference Proceedings, 2016, , .	0.4	1
22	Long-range properties of bottomonium states. Physical Review D, 2016, 93, .	4.7	41
23	Quarkonium hybrids with nonrelativistic effective field theories. Physical Review D, 2015, 92, .	4.7	72
24	Non-relativistic particles in a thermal bath. EPJ Web of Conferences, 2014, 71, 00135.	0.3	2
25	Effective string theory and the long-range relativistic corrections to the quark-antiquark potential. Physical Review D, 2014, 90, .	4.7	25
26	Determination of $\hat{\Gamma}_{\pm s}$ from the QCD static energy: An update. Physical Review D, 2014, 90, .	4.7	64
27	Renormalization of the cyclic Wilson loop. Journal of High Energy Physics, 2013, 2013, 1.	4.7	20
28	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
29	Model-independent study of electric dipole transitions in quarkonium. Physical Review D, 2012, 85, .	4.7	23
30	Effective Field Theories for Baryons with Two- and Three-Heavy Quarks. Few-Body Systems, 2011, 49, 263-268.	1.5	4
31	The spin-orbit potential and Poincaré invariance in finite temperature pNRQCD. Journal of High Energy Physics, 2011, 2011, 1.	4.7	9
32	Precise determination of the $\hat{\Gamma}_{[c]}$ mass and width in the radiative $J/\psi \rightarrow \gamma \hat{\Gamma}_{[c]}^3$ decay. AIP Conference Proceedings, 2011, , .	0.4	6
33	Heavy quarkonium in a weakly-coupled quark-gluon plasma below the melting temperature. Journal of High Energy Physics, 2010, 2010, 1.	4.7	119
34	Polyakov loop and correlator of Polyakov loops at next-to-next-to-leading order. Physical Review D, 2010, 82, .	4.7	57
35	Three-quark static potential in perturbation theory. Physical Review D, 2010, 81, .	4.7	35
36	Hadronic quarkonium decays at order $v^7$ . Physical Review D, 2009, 79, .	4.7	46

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37	QCD static energy at next-to-next-to-next-to leading-logarithmic accuracy. Physical Review D, 2009, 80, .	4.7	58
38	Static quark-antiquark pairs at finite temperature. Physical Review D, 2008, 78, .	4.7	318
39	HEAVY HADRON SPECTROSCOPY. International Journal of Modern Physics A, 2007, 22, 5481-5491.	1.5	8
40	Extraction of $\alpha_s$ from radiative $\Upsilon(1S)$ decays. Physical Review D, 2007, 75, .	4.7	32
41	The logarithmic contribution to the QCD static energy at N <sup>4</sup> LO. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 647, 185-193.	4.1	55
42	Electromagnetic quarkonium decays at order $v^7$ . Journal of High Energy Physics, 2006, 2006, 039-039.	4.7	36
43	Model-independent study of magnetic dipole transitions in quarkonium. Physical Review D, 2006, 73, .	4.7	91
44	1P quarkonium fine splittings at next-to-leading order. Physical Review D, 2005, 71, .	4.7	20
45	Effective-field theories for heavy quarkonium. Reviews of Modern Physics, 2005, 77, 1423-1496.	45.6	559
46	Effective field theory Lagrangians for baryons with two and three heavy quarks. Physical Review D, 2005, 72, .	4.7	118
47	A THEORETICAL REVIEW OF HEAVY QUARKONIUM INCLUSIVE DECAYS. Modern Physics Letters A, 2004, 19, 253-269.	1.2	21
48	Poincaré invariance constraints on non-relativistic effective field theories. Nuclear Physics, Section B, Proceedings Supplements, 2004, 133, 196-201.	0.4	5
49	The $m\bar{c}$ -QCD scale in heavy quarkonium. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 580, 60-71.	4.1	31
50	Poincaré 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
51	New results on inclusive quarkonium decays. Nuclear Physics, Section B, Proceedings Supplements, 2003, 115, 166-169.	0.4	6
52	Inclusive decays of heavy quarkonium to light particles. Physical Review D, 2003, 67, .	4.7	64
53	New Predictions for Inclusive Heavy-Quarkonium P-Wave Decays. Physical Review Letters, 2001, 88, 012003.	7.8	51
54	Poincaré invariance and the heavy-quark potential. Physical Review D, 2001, 64, .	4.7	30

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55	The QCD potential at $O(1/m^2)$ : Complete spin-dependent and spin-independent result. Physical Review D, 2001, 63, .	4.7	99
56	QCD potential at $O(1/m)$ . Physical Review D, 2000, 63, .	4.7	115
57	Bc mass up to order $\hat{1}\pm s^4$ . Physical Review D, 2000, 62, .	4.7	54
58	Potential NRQCD: an effective theory for heavy quarkonium. Nuclear Physics B, 2000, 566, 275-310.	2.5	546
59	Infrared behavior of the static potential in perturbative QCD. Physical Review D, 1999, 60, .	4.7	162
60	The heavy quarkonium spectrum at order $m\hat{1}\pm s^5\ln\hat{1}\pm s$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 470, 215-222.	4.1	92
61	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
62	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