

Robert D Pisarski

List of Publications by Year in descending order

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93

papers

10,620

citations

76326

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53230

85

g-index

97

all docs

97

docs citations

97

times ranked

2780

citing authors

#	ARTICLE	IF	CITATIONS
1	QCD and instantons at finite temperature. <i>Reviews of Modern Physics</i> , 1981, 53, 43-80.	45.6	1,824
2	Soft amplitudes in hot gauge theories: A general analysis. <i>Nuclear Physics B</i> , 1990, 337, 569-634.	2.5	1,049
3	Remarks on the chiral phase transition in chromodynamics. <i>Physical Review D</i> , 1984, 29, 338-341.	4.7	980
4	Phases of dense quarks at large. <i>Nuclear Physics A</i> , 2007, 796, 83-100.	1.5	548
5	High-temperature Yang-Mills theories and three-dimensional quantum chromodynamics. <i>Physical Review D</i> , 1981, 23, 2305-2317.	4.7	496
6	Scattering amplitudes in hot gauge theories. <i>Physical Review Letters</i> , 1989, 63, 1129-1132.	7.8	432
7	Chiral-symmetry breaking in three-dimensional electrodynamics. <i>Physical Review D</i> , 1984, 29, 2423-2426.	4.7	338
8	Deducing hard thermal loops from Ward identities. <i>Nuclear Physics B</i> , 1990, 339, 310-324.	2.5	322
9	Possibility of Spontaneous Parity Violation in Hot QCD. <i>Physical Review Letters</i> , 1998, 81, 512-515.	7.8	310
10	Simple effective Lagrangian for hard thermal loops. <i>Physical Review D</i> , 1992, 45, R1827-R1830.	4.7	307
11	Quark-gluon plasma as a condensate of Z(3)Wilson lines. <i>Physical Review D</i> , 2000, 62, .	4.7	261
12	Resummation and gauge invariance of the gluon damping rate in hot QCD. <i>Physical Review Letters</i> , 1990, 64, 1338-1341.	7.8	240
13	Production of soft dileptons in the quark-gluon plasma. <i>Physical Review Letters</i> , 1990, 64, 2242-2245.	7.8	240
14	Small, dense quark stars from perturbative QCD. <i>Physical Review D</i> , 2001, 63, .	4.7	235
15	Calculation of the gluon damping rate in hot QCD. <i>Physical Review D</i> , 1990, 42, 2156-2160.	4.7	201
16	Quarkyonic chiral spirals. <i>Nuclear Physics A</i> , 2010, 843, 37-58.	1.5	183
17	Deconfining phase transition as a matrix model of renormalized Polyakov loops. <i>Physical Review D</i> , 2004, 70, .	4.7	143
18	Event-by-event fluctuations from decay of a Polyakov loop condensate. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 504, 282-290.	4.1	130

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19	Dense quarks, and the fermion sign problem, in aSU(N)matrix model. Physical Review D, 2005, 72, .	4.7	118
20	Calculation of the quark damping rate in hot QCD. Physical Review D, 1992, 46, 1829-1834.	4.7	110
21	Interface tension in an SU(N) gauge theory at high temperature. Physical Review Letters, 1991, 66, 998-1000.	7.8	101
22	Z(N) interface tension in a hot SU(N) gauge theory. Nuclear Physics B, 1992, 383, 497-524.	2.5	100
23	Effective theory of Wilson lines and deconfinement. Physical Review D, 2006, 74, .	4.7	100
24	Degrees of freedom and the deconfining phase transition. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 525, 95-100.	4.1	98
25	A First Order Transition and Parity Violation in a Color Superconductor. Physical Review Letters, 1999, 83, 37-40.	7.8	90
26	Two-point functions forSU(3)Polyakov loops nearTc. Physical Review D, 2002, 66, .	4.7	90
27	Interweaving chiral spirals. Nuclear Physics A, 2012, 875, 94-138.	1.5	85
28	Renormalized fermion propagator in hot gauge theories. Nuclear Physics A, 1989, 498, 423-427.	1.5	79
29	Cold, dense nuclear matter in a SU(2) parity doublet model. Physical Review C, 2007, 75, .	2.9	78
30	Production and Elliptic Flow of Dileptons and Photons in a Matrix Model of the Quark-Gluon Plasma. Physical Review Letters, 2015, 114, 072301.	7.8	77
31	Effective matrix model for deconfinement in pure gauge theories. Physical Review D, 2012, 86, .	4.7	67
32	Where does the Igo? Chirally symmetric vector mesons in the quark-gluon plasma. Physical Review D, 1995, 52, R3773-R3776.	4.7	62
33	Suppression of the shear viscosity in a â€œsemiâ€•quark-gluon plasma. Physical Review D, 2008, 78, .	4.7	62
34	Deconfinement in matrix models about the Gross-Witten point. Physical Review D, 2005, 71, .	4.7	56
35	How wide is the transition to deconfinement?. Physical Review D, 2011, 83, .	4.7	56
36	How to compute scattering amplitudes in hot gauge theories. Physica A: Statistical Mechanics and Its Applications, 1989, 158, 246-250.	2.6	53

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37	Covering the Fermi surface with patches of quarkyonic chiral spirals. Physical Review D, 2010, 82, .	4.7	53	
38	Finite-temperature QCD at largeN. Physical Review D, 1984, 29, 1222-1227.	4.7	45	
39	Small shear viscosity in the semiquark gluon plasma. Physical Review D, 2010, 81, .	4.7	44	
40	Potential for the phase of the Wilson line at nonzero quark density. Physical Review D, 2000, 61, .	4.7	41	
41	Partition function for the eigenvalues of the Wilson line. Nuclear Physics B, 1993, 402, 657-668.	2.5	40	
42	Real-time relaxation and kinetics in hot scalar QED: Landau damping. Physical Review D, 1998, 58, .	4.7	37	
43	Critical endpoint for deconfinement in matrix and other effective models. Physical Review D, 2012, 85, .	4.7	37	
44	Chiral matrix model of the semi-QGP in QCD. Physical Review D, 2016, 94, .	4.7	34	
45	Dilepton and photon production in the presence of a nontrivial Polyakov loop. Journal of High Energy Physics, 2015, 2015, 1.	4.7	33	
46	Anomalous Mesonic Interactions near a Chiral Phase Transition. Physical Review Letters, 1996, 76, 3084-3087.	7.8	31	
47	Hard thermal loops, to quadratic order, in the background of a spatial \vec{A} Hooft loop. Physical Review D, 2009, 80, .	4.7	31	
48	Universality of Plasmon Excitations in Dirac Semimetals. Physical Review Letters, 2015, 115, 236402.	7.8	31	
49	How the axial anomaly controls flavor mixing among mesons. Physical Review D, 2018, 97, .	4.7	29	
50	Nonequilibrium evolution of a π^+ tsunami, a high multiplicity initial quantum state: Dynamical symmetry breaking. Physical Review D, 1998, 57, 3653-3669.	4.7	24	
51	Fluctuations in cool quark matter and the phase diagram of quantum chromodynamics. Physical Review D, 2019, 99, .	4.7	23	
52	Zero point energy of renormalized Wilson loops. Physical Review D, 2009, 80, .	4.7	22	
53	Collisional energy loss above the critical temperature in QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 730, 236-242.	4.1	22	
54	How transverse thermal fluctuations disorder a condensate of chiral spirals into a quantum spin liquid. Physical Review D, 2020, 102, .	4.7	21	

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55	Critical line for Hsuperfluidity in strange quark matter?. Physical Review C, 2000, 62, .	2.9	20
56	Phase of the Wilson Line at High Temperature in the Standard Model. Physical Review Letters, 1994, 73, 1754-1757.	7.8	19
57	Gross-Witten-Wadia transition in a matrix model of deconfinement. Physical Review D, 2012, 86, .	4.7	19
58	Roberge-Weiss transition and ϵ Hooft loops. Physical Review D, 2013, 87, .	4.7	19
59	Volume dependence of baryon number cumulants and their ratios. Physical Review D, 2017, 95, . Remarks on nuclear matter: How an ϵ condensate can spike the speed of sound, and a model of baryons. Physical Review D, 2021, 103, .	4.7	19
60	ϵ -functions for aSU(2)matrix model in 2+ μ dimensions. Physical Review D, 2006, 74, .	4.7	19
61	Signatures of Moat Regimes in Heavy-Ion Collisions. Physical Review Letters, 2021, 127, 152302.	7.8	17
62	The Lifshitz Regime and its Experimental Signals. Nuclear Physics A, 2021, 1005, 121910.	1.5	14
63	How tetraquarks can generate a second chiral phase transition. Physical Review D, 2016, 94, .	4.7	12
65	Production of heavy sterile neutrinos from vector boson decay at electroweak temperatures. Physical Review D, 2017, 95, .	4.7	12
66	Multi-instanton contributions to anomalous quark interactions. Physical Review D, 2020, 101, .	4.7	12
67	Zero interface tensions at the deconfining phase transition for a matrix model of aSU(\tilde{z})gauge theory. Physical Review D, 2013, 87, .	4.7	10
68	Emergent QCD Kondo effect in two-flavor color superconducting phase. Physical Review D, 2019, 99, .	4.7	10
69	A Pedagogical Introduction to the Lifshitz Regime. Universe, 2019, 5, 48.	2.5	9
70	Free energy of a holonomous plasma. Physical Review D, 2020, 101, .	4.7	9
71	Test of the Polyakov Loop Model. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 483-485.	0.4	8
72	Finite-temperature phase transitions of third and higher order in gauge theories at large N . Physical Review D, 2018, 97, .	4.7	8

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73	Quasi-particle and matrix models of the semi Quark Gluon Plasma. Nuclear Physics A, 2013, 904-905, 973c-976c.	1.5	6
74	Matrix model for deconfinement in aSU(Nc)gauge theory in 2+1 dimensions. Physical Review D, 2014, 89, .	4.7	6
75	Conundrum for the free energy of a holonomous gluonic plasma at cubic order. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 803, 135336.	4.1	6
76	Medley in finite-temperature field theory. Canadian Journal of Physics, 1993, 71, 280-284.	1.1	5
77	Matrix model for deconfinement in aSU(2)gauge theory in 2+1 dimensions. Physical Review D, 2013, 88, .	4.7	5
78	When cold, dense quarks in $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\rangle \langle \text{mml:mrow} \langle \text{mml:mn} > 1 \langle /mml:mn \rangle \langle \text{mml:mo} + \langle /mml:mo \rangle \langle \text{mml:mn} > 1 \langle /mml:mn \rangle \langle \text{mml:mrow} \langle /mml:math \rangle$ and $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\rangle \langle \text{mml:mrow} \langle \text{mml:mn} > 3 \langle /mml:mn \rangle \langle \text{mml:mo} + \langle /mml:mo \rangle \langle \text{mml:mn} > 1 \langle /mml:mn \rangle \langle \text{mml:mrow} \langle /mml:math \rangle$ dimensions are not a Fermi liquid. Physical Review D, 2022, 105, .	4.7	4
79	Effective lagrangian at high temperature. Nuclear Physics A, 1992, 544, 527-530.	1.5	3
80	Towards a theory of the semi-Quark Gluon Plasma. Nuclear Physics, Section B, Proceedings Supplements, 2009, 195, 157-198.	0.4	3
81	Notes on the Deconfining Phase Transition. , 2002, , 353-384.		3
82	GROSSâ€“WITTEN POINT AND DECONFINEMENT. International Journal of Modern Physics A, 2005, 20, 4469-4474.	1.5	1
83	Why Cold, Dense Quark Matter could be â€œQuarkyonicâ€. Nuclear Physics, Section B, Proceedings Supplements, 2009, 195, 199-216.	0.4	1
84	WHY THE QUARK-GLUON PLASMA ISN'T A PLASMA. , 2001, , .		1
85	Roman Jackiw and Chernâ€“Simons theories. Notices of the International Congress of Chinese Mathematicians, 2021, 9, 47-56.	0.0	1
86	Suppression of the Shear Viscosity as QCD Cools into a Confining Phase. Progress of Theoretical Physics Supplement, 2008, 174, 228-232.	0.1	0
87	Quarkyonic Chiral Spirals. , 2010, , .		0
88	Chiral matrix model for the phase transition in QCD. Nuclear Physics A, 2016, 956, 673-676.	1.5	0
89	REVIEW OF THE CHIRAL PHASE TRANSITION. , 2003, , .		0
90	THEORY VERSUS EXPERIMENT IN HIGH ENERGY NUCLEUS COLLISIONS. , 2003, , .		0

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91	IN A HOT, CHIRALLY SYMMETRIC PHASE, ϵ_0 DOESN'T GO INTO 2^3 , BUT ϵ_0 if DOES., 1996, , 41-47.	0	0
92	Nuclear Matter in 1 + 1 Dimensions. Universe, 2021, 7, 411.	2.5	0
93	Wilson loops in the Hamiltonian formalism. Physical Review D, 2022, 105, .	4.7	0