# Robert D Pisarski

List of Publications by Year
in descending order



| 93 | 10,620 | 76326 40 | 53230 85 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 97 | 97 | 97 | 2780 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | When cold, dense quarks in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>1</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mn>3</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:mrow></mml:math> dimensions are not a Fermi liquid. Physical Review D, 2022, 105, . | 4.7 | 4 |
| 2 | Wilson loops in the Hamiltonian formalism. Physical Review D, 2022, 105, . | 4.7 | 0 |
| 3 | The Lifshitz Regime and its Experimental Signals. Nuclear Physics A, 2021, 1005, 121910. | 1.5 | 14 |
| 4 | Remarks on nuclear matter: How an <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>Ï‰</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:math> condensate can spike the speed of sound, and a model of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Z</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>3</mml:mn><mml:mo stretchy="false">)</mml:mo></mml:math> baryons. Physical Review D, 2021, 103, . | 4.7 | 19 |
| 5 | Roman Jackiw and Chernâ€“Simons theories. Notices of the International Congress of Chinese Mathematicians, 2021, 9, 47-56. | 0.0 | 1 |
| 6 | Signatures of Moat Regimes in Heavy-Ion Collisions. Physical Review Letters, 2021, 127, 152302. | 7.8 | 17 |
| 7 | Nuclear Matter in 1 + 1 Dimensions. Universe, 2021, 7, 411. | 2.5 | 0 |
| 8 | Free energy of a holonomous plasma. Physical Review D, 2020, 101, . | 4.7 | 9 |
| 9 | How transverse thermal fluctuations disorder a condensate of chiral spirals into a quantum spin liquid. Physical Review D, 2020, 102, . | 4.7 | 21 |
| 10 | Multi-instanton contributions to anomalous quark interactions. Physical Review D, 2020, 101, . | 4.7 | 12 |
| 11 | 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 |
| 12 | Emergent QCD Kondo effect in two-flavor color superconducting phase. Physical Review D, 2019, 99, . | 4.7 | 10 |
| 13 | Fluctuations in cool quark matter and the phase diagram of quantum chromodynamics. Physical Review D, 2019, 99, . | 4.7 | 23 |
| 14 | A Pedagogical Introduction to the Lifshitz Regime. Universe, 2019, 5, 48. | 2.5 | 9 |
| 15 | Finite-temperature phase transitions of third and higher order in gauge theories at large <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>N</mml:mi></mml:math>. Physical Review D, 2018, 97, . | 4.7 | 8 |
| 16 | How the axial anomaly controls flavor mixing among mesons. Physical Review D, 2018, 97, . | 4.7 | 29 |
| 17 | Production of heavy sterile neutrinos from vector boson decay at electroweak temperatures. Physical Review D, 2017, 95, . | 4.7 | 12 |
| 18 | Volume dependence of baryon number cumulants and their ratios. Physical Review D, 2017, 95, . | 4.7 | 19 |

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| 19 | Chiral matrix model for the phase transition in QCD. Nuclear Physics A, 2016, 956, 673-676. | 1.5 | 0 |
| 20 | Chiral matrix model of the semi-QGP in QCD. Physical Review D, 2016, 94, . | 4.7 | 34 |
| 21 | How tetraquarks can generate a second chiral phase transition. Physical Review D, 2016, 94, . | 4.7 | 12 |
| 22 | Universality of Plasmon Excitations in Dirac Semimetals. Physical Review Letters, 2015, 115, 236402. | 7.8 | 31 |
| 23 | Dilepton and photon production in the presence of a nontrivial Polyakov loop. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 33 |
| 24 | 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 |
| 25 | Matrix model for deconfinement in aSU(Nc)gauge theory in2+1dimensions. Physical Review D, 2014, 89, . | 4.7 | 6 |
| 26 | 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 |
| 27 | Roberge-Weiss transition and â€™t Hooft loops. Physical Review D, 2013, 87, . | 4.7 | 19 |
| 28 | Quasi-particle and matrix models of the semi Quark Gluon Plasma. Nuclear Physics A, 2013, 904-905, 973c-976c. | 1.5 | 6 |
| 29 | Matrix model for deconfinement in aSU(2)gauge theory in2+1dimensions. Physical Review D, 2013, 88, . | 4.7 | 5 |
| 30 | Zero interface tensions at the deconfining phase transition for a matrix model of aSU(âˆž)gauge theory. Physical Review D, 2013, 87, . | 4.7 | 10 |
| 31 | Effective matrix model for deconfinement in pure gauge theories. Physical Review D, 2012, 86, . | 4.7 | 67 |
| 32 | Gross-Witten-Wadia transition in a matrix model of deconfinement. Physical Review D, 2012, 86, . | 4.7 | 19 |
| 33 | Critical endpoint for deconfinement in matrix and other effective models. Physical Review D, 2012, 85, . | 4.7 | 37 |
| 34 | Interweaving chiral spirals. Nuclear Physics A, 2012, 875, 94-138. | 1.5 | 85 |
| 35 | How wide is the transition to deconfinement?. Physical Review D, 2011, 83, . | 4.7 | 56 |
| 36 | Small shear viscosity in the semiquark gluon plasma. Physical Review D, 2010, 81, . | 4.7 | 44 |

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| 37 | Quarkyonic chiral spirals. Nuclear Physics A, 2010, 843, 37-58. | 1.5 | 183 |
| 38 | Quarkyonic Chiral Spirals. , 2010, , . | | 0 |
| 39 | Covering the Fermi surface with patches of quarkyonic chiral spirals. Physical Review D, 2010, 82, . | 4.7 | 53 |
| 40 | Towards a theory of the semi-Quark Gluon Plasma. Nuclear Physics, Section B, Proceedings Supplements, 2009, 195, 157-198. | 0.4 | 3 |
| 41 | Why Cold, Dense Quark Matter could be â€œQuarkyonicâ€• Nuclear Physics, Section B, Proceedings Supplements, 2009, 195, 199-216. | 0.4 | 1 |
| 42 | Zero point energy of renormalized Wilson loops. Physical Review D, 2009, 80, . | 4.7 | 22 |
| 43 | Hard thermal loops, to quadratic order, in the background of a spatial â€™t Hooft loop. Physical Review D, 2009, 80, . | 4.7 | 31 |
| 44 | Suppression of the shear viscosity in a â€œsemiâ€•quark-gluon plasma. Physical Review D, 2008, 78, . | 4.7 | 62 |
| 45 | Suppression of the Shear Viscosity as QCD Cools into a Confining Phase. Progress of Theoretical Physics Supplement, 2008, 174, 228-232. | 0.1 | 0 |
| 46 | Cold, dense nuclear matter in a SU(2) parity doublet model. Physical Review C, 2007, 75, . | 2.9 | 78 |
| 47 | Phases of dense quarks at large. Nuclear Physics A, 2007, 796, 83-100. | 1.5 | 548 |
| 48 | Î²-functions for aSU(2)matrix model in2+Ïµdimensions. Physical Review D, 2006, 74, . | 4.7 | 15 |
| 49 | Effective theory of Wilson lines and deconfinement. Physical Review D, 2006, 74, . | 4.7 | 100 |
| 50 | GROSSâ€“WITTEN POINT AND DECONFINEMENT. International Journal of Modern Physics A, 2005, 20, 4469-4474. | 1.5 | 1 |
| 51 | Dense quarks, and the fermion sign problem, in aSU(N)matrix model. Physical Review D, 2005, 72, . | 4.7 | 118 |
| 52 | Deconfinement in matrix models about the Gross-Witten point. Physical Review D, 2005, 71, . | 4.7 | 56 |
| 53 | Deconfining phase transition as a matrix model of renormalized Polyakov loops. Physical Review D, 2004, 70, . | 4.7 | 143 |
| 54 | REVIEW OF THE CHIRAL PHASE TRANSITION. , 2003, , . | | 0 |

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| 55 | THEORY VERSUS EXPERIMENT IN HIGH ENERGY NUCLEUS COLLISIONS. , 2003, , . | | 0 |
| 56 | Two-point functions forSU(3)Polyakov loops nearTc. Physical Review D, 2002, 66, . | 4.7 | 90 |
| 57 | 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 |
| 58 | Test of the Polyakov Loop Model. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 483-485. | 0.4 | 8 |
| 59 | Notes on the Deconfining Phase Transition. , 2002, , 353-384. | | 3 |
| 60 | Event-by-event fluctuations from decay of a Polyakov loop condensate. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 504, 282-290. | 4.1 | 130 |
| 61 | Small, dense quark stars from perturbative QCD. Physical Review D, 2001, 63, . | 4.7 | 235 |
| 62 | WHY THE QUARK-GLUON PLASMA ISN'T A PLASMA. , 2001, , . | | 1 |
| 63 | Potential for the phase of the Wilson line at nonzero quark density. Physical Review D, 2000, 61, . | 4.7 | 41 |
| 64 | Critical line forHsuperfluidity in strange quark matter?. Physical Review C, 2000, 62, . | 2.9 | 20 |
| 65 | Quark-gluon plasma as a condensate ofZ(3)Wilson lines. Physical Review D, 2000, 62, . | 4.7 | 261 |
| 66 | A First Order Transition and Parity Violation in a Color Superconductor. Physical Review Letters, 1999, 83, 37-40. | 7.8 | 90 |
| 67 | Nonequilibrium evolution of a â€œtsunami,â€•a high multiplicity initial quantum state: Dynamical symmetry breaking. Physical Review D, 1998, 57, 3653-3669. | 4.7 | 24 |
| 68 | Possibility of Spontaneous Parity Violation in Hot QCD. Physical Review Letters, 1998, 81, 512-515. | 7.8 | 310 |
| 69 | Real-time relaxation and kinetics in hot scalar QED: Landau damping. Physical Review D, 1998, 58, . | 4.7 | 37 |
| 70 | Anomalous Mesonic Interactions near a Chiral Phase Transition. Physical Review Letters, 1996, 76, 3084-3087. | 7.8 | 31 |
| 71 | IN A HOT, CHIRALLY SYMMETRIC PHASE, Ï€0 DOESN'T GO INTO 2Î³, BUT Ï€0Ïƒ DOES. , 1996, , 41-47. | | 0 |
| 72 | Where does the Ï•go? Chirally symmetric vector mesons in the quark-gluon plasma. Physical Review D, 1995, 52, R3773-R3776. | 4.7 | 62 |

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| 73 | Phase of the Wilson Line at High Temperature in the Standard Model. Physical Review Letters, 1994, 73, 1754-1757. | 7.8 | 19 |
| 74 | Partition function for the eigenvalues of the Wilson line. Nuclear Physics B, 1993, 402, 657-668. | 2.5 | 40 |
| 75 | Medley in finite-temperature field theory. Canadian Journal of Physics, 1993, 71, 280-284. | 1.1 | 5 |
| 76 | Simple effective Lagrangian for hard thermal loops. Physical Review D, 1992, 45, R1827-R1830. | 4.7 | 307 |
| 77 | Calculation of the quark damping rate in hot QCD. Physical Review D, 1992, 46, 1829-1834. | 4.7 | 110 |
| 78 | Z(N) interface tension in a hot SU(N) gauge theory. Nuclear Physics B, 1992, 383, 497-524. | 2.5 | 100 |
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| 81 | Resummation and gauge invariance of the gluon damping rate in hot QCD. Physical Review Letters, 1990, 64, 1338-1341. | 7.8 | 240 |
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| 83 | Deducing hard thermal loops from Ward identities. Nuclear Physics B, 1990, 339, 310-324. | 2.5 | 322 |
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| 85 | Calculation of the gluon damping rate in hot QCD. Physical Review D, 1990, 42, 2156-2160. | 4.7 | 201 |
| 86 | Scattering amplitudes in hot gauge theories. Physical Review Letters, 1989, 63, 1129-1132. | 7.8 | 432 |
| 87 | How to compute scattering amplitudes in hot gauge theories. Physica A: Statistical Mechanics and Its Applications, 1989, 158, 246-250. | 2.6 | 53 |
| 88 | Renormalized fermion propagator in hot gauge theories. Nuclear Physics A, 1989, 498, 423-427. | 1.5 | 79 |
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| 91 | Remarks on the chiral phase transition in chromodynamics. Physical Review D, 1984, 29, 338-341. | 4.7 | 980 |
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| 93 | QCD and instantons at finite temperature. Reviews of Modern Physics, 1981, 53, 43-80. | 45.6 | 1,824 |