Kenji Fukushima

List of Publications by Year
in descending order

113	7,295	87888 38	53230 85
papers	citations	h-index	g-index

116	116	116	3275
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Equation of state of cold and dense QCD matter in resummed perturbation theory. Physical Review D, 2022, 105, .	4.7	12
2	Skyrmions in a magnetic field and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>Ï€</mml:mi><mml:mn>0</mml:mn></mml:msup></mml:math> domain wall formation in dense nuclear matter. Physical Review D, 2022, 105, .	4.7	10
3	Deconfining phase boundary of rapidly rotating hot and dense matter and analysis of moment of inertia. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136184.	4.1	28
4	Spin hydrodynamics and symmetric energy-momentum tensors â€“ A current induced by the spin vorticity â€“. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 817, 136346.	4.1	69
5	Classification of magnetic vortices by angular momentum conservation. Physical Review Research, 2021, 3, .	3.6	0
6	Continuity from neutron matter to two-flavor quark matter with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:msub><mml:mrow><mml:mi>S</mml:mi></mml:mrow><mml:mn /><mml:none /><mml:mrow><mml:mn>1</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="script">C</mml:mi></mml:mrow></mml:math> breaking at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">P</mml:mi></mml:math> in Yang-Mills theories and a novel phase for SU(2). Physical Review D, 2020, 102, .	4.7	16
7	Electric conductivity of hot and dense quark matter in a magnetic field with Landau level resummation via kinetic equations. Nuclear Physics A, 2019, 982, 231-234.	4.7	8
8	Lefschetz-thimble inspired analysis of the Dykhneâ€“Davisâ€“Pechukas method and an application for the Schwinger Mechanism. Annals of Physics, 2020, 415, 168111.	2.8	7
9	Electric conductivity of hot and dense quark matter in a magnetic field with Landau level resummation via kinetic equations. Nuclear Physics A, 2019, 982, 231-234.	1.5	0
10	Anomaly inflow on QCD axial domain-walls and vortices. Physical Review D, 2018, 97, .	4.7	5
11	Boundary effects and gapped dispersion in rotating fermionic matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 94-99.	4.1	73
12	Evolution to the quarkâ€“gluon plasma. Reports on Progress in Physics, 2017, 80, 022301.	20.1	17
13	Polyakov loop modeling for hot QCD. Progress in Particle and Nuclear Physics, 2017, 96, 154-199.	14.4	68
14	Boost invariant formulation of the chiral kinetic theory. Physical Review D, 2017, 96, .	4.7	21
15	Probing gluon saturation with next-to-leading order photon production at central rapidities in proton-nucleus collisions. Journal of High Energy Physics, 2017, 2017, 1.	4.7	45
16	Photon from the annihilation process with CGC in the pA collision. Nuclear Physics A, 2017, 958, 1-24.	1.5	19
17	General formulae for dipole Wilson line correlators with the Color Glass Condensate. Journal of High Energy Physics, 2017, 2017, 1.	4.7	9
18	Photons from the Color Glass Condensate in p+A collisions. EPJ Web of Conferences, 2017, 141, 04004.	0.3	0

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19	THE QUARKYONIC STAR. Astrophysical Journal, 2016, 817, 180.	4.5	63
20	What flows in the chirally anomalous transport?. Nuclear Physics A, 2016, 956, 665-668.	1.5	0
21	Strangeness as a probe to baryon-rich QCD matter at NICA. European Physical Journal A, 2016, 52, 1.	2.5	1
22	Chiral pumping effect induced by rotating electric fields. Physical Review B, 2016, 93, .	3.2	64
23	Heavy quark diffusion in strong magnetic fields at weak coupling and implications for elliptic flow. Physical Review D, 2016, 93, .	4.7	81
24	Analogy between rotation and density for Dirac fermions in a magnetic field. Physical Review D, 2016, 93, .	4.7	80
25	Spatially Assisted Schwinger Mechanism and Magnetic Catalysis. Physical Review Letters, 2016, 117, 081603.	7.8	14
26	Magnetic Shift of the Chemical Freeze-out and Electric Charge Fluctuations. Physical Review Letters, 2016, 117, 102301.	7.8	25
27	Analytic studies of the complex Langevin equation with a Gaussian ansatz and multiple solutions in the unstable region. Physical Review D, 2016, 94, .	4.7	5
28	Simulating net particle production and chiral magnetic current in a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>C</mml:mi><mml:mi>P</mml:mi></mml:math>-odd domain. Physical Review D, 2015, 92, .	4.7	19
29	Geometrically Induced Magnetic Catalysis and Critical Dimensions. Physical Review Letters, 2015, 114, 181601.	7.8	12
30	Hamilton dynamics for Lefschetz-thimble integration akin to the complex Langevin method. Progress of Theoretical and Experimental Physics, 2015, 2015, 111A01-111A01.	6.6	28
31	Hadron resonance gas and mean-field nuclear matter for baryon number fluctuations. Physical Review C, 2015, 91, .	2.9	32
32	Restricted phase-space approximation in real-time stochastic quantization. Annals of Physics, 2015, 353, 107-128.	2.8	12
33	Schwinger mechanism with stochastic quantization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 371-375.	4.1	8
34	Spectral representation of the particle production out of equilibriumâ€”Schwinger mechanism in pulsed electric fields. New Journal of Physics, 2014, 16, 073031.	2.9	4
35	Silver blaze puzzle in1/Ncexpansions of cold and dense QCD matter. Physical Review D, 2014, 89, .	4.7	1
36	Sign problem and the chiral spiral on the finite density lattice. Physical Review D, 2014, 89, .	4.7	3

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37	Turbulent pattern formation and diffusion in the early-time dynamics in relativistic heavy-ion collisions. Physical Review C, 2014, 89, .	2.9	23
38	Baryonic matter and beyond. Nuclear Physics A, 2014, 931, 257-266.	1.5	6
39	Chiral Mass-Gap in Curved Space. Physical Review Letters, 2014, 113, 091102.	7.8	25
40	Spatial Modulation and Topological Current in Holographic QCD Matter. Physical Review Letters, 2013, 111, 051601.	7.8	13
41	Magnetic Catalysis Versus Magnetic Inhibition. Physical Review Letters, 2013, 110, 031601.	7.8	172
42	The phase diagram of nuclear and quark matter at high baryon density. Progress in Particle and Nuclear Physics, 2013, 72, 99-154.	14.4	186
43	Polyakov loop and QCD thermodynamics from the gluon and ghost propagators. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 360-364.	4.1	34
44	Quest for the QCD phase diagram in extreme environments. Hyperfine Interactions, 2013, 215, 45-51.	0.5	0
45	Stabilizing perturbative Yang-Mills thermodynamics with Gribov quantization. Physical Review D, 2013, 88, .	4.7	37
46	Magnetic catalysis in hot and dense quark matter and quantum fluctuations. Physical Review D, 2012, 86, .	4.7	78
47	Generic features of the phase transition in cold and dense quark matter. Physical Review D, 2012, 86, .	4.7	8
48	Wess-Zumino-Witten action and photons from the chiral magnetic effect. Physical Review D, 2012, 86, .	4.7	46
49	What favors and disfavors the critical point of QCD?. Open Physics, 2012, 10, .	1.7	0
50	QCD matter in extreme environments. Journal of Physics G: Nuclear and Particle Physics, 2012, 39, 013101.	3.6	65
51	The evolving Glasma. Nuclear Physics A, 2012, 874, 108-129.	1.5	110
52	Interweaving chiral spirals. Nuclear Physics A, 2012, 875, 94-138.	1.5	85
53	Second-order and fluctuation-induced first-order phase transitions with functional renormalization group equations. Physical Review D, 2011, 83, .	4.7	31
54	Magnetic-field induced screening effect and collective excitations. Physical Review D, 2011, 83, .	4.7	34

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55	Phases of QCD â€”Baryon Rich State of Matterâ€”. Journal of Physics: Conference Series, 2011, 312, 012001.	0.4	3
56	Effective model approach to the dense state of QCD matter. Physics of Particles and Nuclei Letters, 2011, 8, 838-844.	0.4	6
57	Phase diagram of hot and dense QCD constrained by the Statistical Model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 387-391.	4.1	18
58	Chiral Magnetic Effect and the QCD Phase Transitions. , 2011, , .		0
59	The phase diagram of dense QCD. Reports on Progress in Physics, 2011, 74, 014001.	20.1	663
60	Title is missing!. Acta Physica Polonica B, 2011, 42, 2697.	0.8	8
61	Electric-current susceptibility and the Chiral Magnetic Effect. Nuclear Physics A, 2010, 836, 311-336.	1.5	93
62	Hadron production in ultra-relativistic nuclear collisions: Quarkyonic matter and a triple point in the phase diagram of QCD. Nuclear Physics A, 2010, 837, 65-86.	1.5	179
63	Real-Time Dynamics of the Chiral Magnetic Effect. Physical Review Letters, 2010, 104, 212001.	7.8	118
64	Chiral magnetic effect in the Polyakovâ€“Nambuâ€“Jona-Lasinio model. Physical Review D, 2010, 81, .	4.7	172
65	Melting spectral functions of the scalar and vector mesons in a holographic QCD model. Physical Review D, 2010, 81, .	4.7	44
66	Dielectric correction to the chiral magnetic effect. Physical Review D, 2010, 82, .	4.7	30
67	Model analysis on thermal UV-cutoff effects on the critical boundary in hot QCD. Physical Review D, 2010, 81, .	4.7	5
68	Initial energy density and gluon distribution from the glasma in heavy-ion collisions. Physical Review C, 2009, 79, .	2.9	35
69	Two-color quark matter:U(1)Arestoration, superfluidity, and quarkyonic phase. Physical Review D, 2009, 80, .	4.7	57
70	Strangeness in the PNJL model. Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 064020.	3.6	2
71	Multiparticle correlations in the Schwinger mechanism. Nuclear Physics A, 2009, 831, 184-214.	1.5	28
72	Gauge dynamics in the PNJL model: Color neutrality and Casimir scaling. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 676, 57-62.	4.1	56

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73	Number of QCD critical points with neutral color superconductivity. Physical Review D, 2009, 79, .	4.7	26
74	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>U</mml:mi><mml:mi mathvariant="normal">A</mml:mi></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 692 Td (stretchy="false">)</mml:m	4.7	24
75	Physical Review D, 2009, 80, . Finite-temperature spectral function of the vector mesons in a holographic QCD model. Physical Review D, 2009, 80, .	4.7	58
76	Isentropic thermodynamics in the Polyakovâ€“Nambuâ€“Jona-Lasinio model. Physical Review D, 2009, 79, .	4.7	36
77	Two-gluon production and longitudinal correlations in the Color Glass Condensate. Nuclear Physics A, 2008, 813, 171-197.	1.5	15
78	Characteristics of the eigenvalue distribution of the Dirac operator in dense two-color QCD. Journal of High Energy Physics, 2008, 2008, 083-083.	4.7	8
79	Chiral magnetic effect. Physical Review D, 2008, 78, .	4.7	1,486
80	Randomness in infinitesimal extent in the McLerran-Venugopalan model. Physical Review D, 2008, 77, .	4.7	19
81	Phase diagrams in the three-flavor Nambuâ€“Jona-Lasinio model with the Polyakov loop. Physical Review D, 2008, 77, .	4.7	399
82	Critical surface in hot and dense QCD with the vector interaction. Physical Review D, 2008, 78, .	4.7	83
83	Chiral symmetry and heavy-ion collisions. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 104020.	3.6	12
84	Color Superconducting Matter in a Magnetic Field. Physical Review Letters, 2008, 100, 032007.	7.8	117
85	Light projectile scattering off the Color Glass Condensate. Journal of High Energy Physics, 2007, 2007, 040-040.	4.7	30
86	Model study of the sign problem in the mean-field approximation. Physical Review D, 2007, 75, .	4.7	60
87	Initial fields and instabilities in the classical model of relativistic heavy-ion collisions. Physical Review C, 2007, 76, .	2.9	33
88	Larkin-Ovchinnikov-Fulde-Ferrell state in two-color quark matter. Physical Review D, 2007, 76, .	4.7	15
89	Instability of a gapless color superconductor with respect to inhomogeneous fluctuations. Nuclear Physics A, 2007, 785, 118-121.	1.5	1
90	Initial singularity of the little bang. Nuclear Physics A, 2007, 786, 107-130.	1.5	76

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91	Instability of a gapless color superconductor with respect to inhomogeneous fluctuations. Physical Review D, 2006, 74, .	4.7	22
92	Characterizing the Larkin-Ovchinnikov-Fulde-Ferrel phase induced by the chromomagnetic instability. Physical Review D, 2006, 73, .	4.7	40
93	Gauge-invariant source terms in QCD. Nuclear Physics A, 2006, 770, 71-83.	1.5	5
94	Deriving the Jalilian-Marianâ€“Iancuâ€“McLerranâ€“Weigertâ€“Leonidovâ€“Kovner equation with classical and quantum source terms. Nuclear Physics A, 2006, 775, 69-88.	1.5	3
95	Phase Diagram and Instability of Dense Neutral Three-Flavor Quark Matter. AIP Conference Proceedings, 2006, , .	0.4	0
96	Dynamic aspect of the chiral phase transition in the mode coupling theory. Nuclear Physics A, 2005, 748, 260-309.	1.5	5
97	Deconfinement and Chiral Restoration in Hot and Dense Matter. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 580-582.	0.4	0
98	Heating (gapless) color-flavor locked quark matter. Physical Review D, 2005, 71, .	4.7	59
99	Collective excitations in a superfluid of color-flavor locked quark matter. Physical Review D, 2005, 71, .	4.7	10
100	Analytical and numerical evaluation of the Debye and Meissner masses in dense neutral three-flavor quark matter. Physical Review D, 2005, 72, .	4.7	81
101	Relation between colour deconfinement and chiral restoration. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, S1263-S1266.	3.6	1
102	Linking the chiral and deconfinement phase transitions. Physical Review D, 2004, 69, .	4.7	59
103	Quark description of the Nambu-Goldstone bosons in the color-flavor locked phase. Physical Review D, 2004, 70, .	4.7	16
104	Order Parameters with Higher Dimensionful Composite Fields. Progress of Theoretical Physics, 2004, 111, 967-972.	2.0	11
105	Chiral effective model with the Polyakov loop. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 591, 277-284.	4.1	764
106	Thermodynamics of strong coupling 2-color QCD with chiral and diquark condensates. Physics Reports, 2004, 398, 281-300.	25.6	33
107	Thermodynamic limit of the canonical partition function with respect to the quark number in QCD. Annals of Physics, 2003, 304, 72-88.	2.8	20
108	Effects of chiral restoration on the behaviour of the Polyakov loop at strong coupling. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 553, 38-44.	4.1	33

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109	Relation between the Polyakov loop and the chiral order parameter at strong coupling. Physical Review D, 2003, 68, .	4.7	70
110	Slope of the topological susceptibility at zero temperature and finite temperature in the Nambuâ€“Jona-Lasinio model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 514, 200-203.	4.1	8
111	Explicit conversion from the Casimir force to Planck's law of radiation. Physica A: Statistical Mechanics and Its Applications, 2001, 299, 455-460.	2.6	2
112	Topological susceptibility at zero temperature and finite temperature in the Nambuâ€“Jona-Lasinio model. Physical Review C, 2001, 63, .	2.9	52
113	Stability of the perturbative vacuum against spatial variations of the Polyakov loop. Journal of Physics G: Nuclear and Particle Physics, 2000, 26, 1397-1415.	3.6	11