Olaf Kaczmarek

List of Publications by Year
in descending order

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109	7,355	71102	51608
papers	citations	41 h-index	86 g-index

113	113	113	2347
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Spectral reconstruction details of a gradient-flowed color-electric correlator. EPJ Web of Conferences, 2022, 259, 10004.	0.3	2
2	Static quark-antiquark interactions at nonzero temperature from lattice QCD. Physical Review D, 2022, 105, .	4.7	17
3	Taylor expansions and PadÃ© approximants for cumulants of conserved charge fluctuations at nonvanishing chemical potentials. Physical Review D, 2022, 105, .	4.7	19
4	Lattice QCD noise reduction for bosonic correlators through blocking. Physical Review D, 2022, 105, .	4.7	3
5	Heavy quark momentum diffusion from the lattice using gradient flow. Physical Review D, 2021, 103, .	4.7	32
6	Quark Cluster Expansion Model for Interpreting Finite-T Lattice QCD Thermodynamics. Symmetry, 2021, 13, 514.	2.2	1
7	Sphaleron rate from Euclidean lattice correlators: An exploration. Physical Review D, 2021, 103, .	4.7	21
8	Diffusion coefficient matrix of the strongly interacting quark-gluon plasma. Physical Review D, 2021, 104, .	4.7	10
9	Second order cumulants of conserved charge fluctuations revisited: Vanishing chemical potentials. Physical Review D, 2021, 104, .	4.7	21
10	Eigenvalue spectra of QCD and the fate of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>U</mml:mi><mml:mi>A</mml:mi></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mn>1</mml:mn><mml:mo stretchy="false">)</mml:mo></mml:math> breaking towards the chiral limit. Physical Review D, 2021, 104, .	4.7	14
11	Charm and beauty in the deconfined plasma from quenched lattice QCD. Physical Review D, 2021, 104, .	4.7	6
12	Skewness, kurtosis, and the fifth and sixth order cumulants of net baryon-number distributions from lattice QCD confront high-statistics STAR data. Physical Review D, 2020, 101, .	4.7	85
13	Open-charm Euclidean correlators within heavy-meson EFT interactions. European Physical Journal A, 2020, 56, 1.	2.5	5
14	Polyakov loop susceptibility and correlators in the chiral limit. , 2020, , .		6
15	Thermal modifications of quarkonia and heavy quark diffusion from a comparison of continuum-extrapolated lattice results to perturbative QCD. , 2020, , .		3
16	Euclidean correlation functions of the topological charge density. , 2020, , .		4
17	Chiral Phase Transition Temperature in (<mml:math) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 112 Td (xmlns:mml="http://www.	7.8	116
18	Charmonium and bottomonium spectral functions in the vector channel. Nuclear Physics A, 2019, 982, 715-718.	1.5	7

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19	Chiral crossover in QCD at zero and non-zero chemical potentials. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 795, 15-21.	4.1	303
20	Open-boundary conditions in the deconfined phase. European Physical Journal C, 2019, 79, 1039.	3.9	2
21	Meson screening masses in (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq1 1 0.784314 rgBT /Overlock	4.7	48
22	Free energy of a heavy quark-antiquark pair in a thermal medium from AdS/CFT. Journal of High Energy Physics, 2018, 2018, 1.	4.7	14
23	Continuum extrapolation of quarkonium correlators at non-zero temperature. EPJ Web of Conferences, 2018, 175, 07010.	0.3	3
24	Thermal Simulations, Open Boundary Conditions and Switches. EPJ Web of Conferences, 2018, 175, 07004.	0.3	2
25	Thermal modifications of charmonia and bottomonia from spatial correlation functions. EPJ Web of Conferences, 2018, 175, 07021.	0.3	1
26	Extraction of heavy-flavor transport coefficients in QCD matter. Nuclear Physics A, 2018, 979, 21-86.	1.5	137
27	Stochastic reconstructions of spectral functions: Application to lattice QCD. Physical Review D, 2018, 97, .	4.7	19
28	QCD equation of state to <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi mathvariant="script">O</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:msubsup><mml:mi>Î¼</mml:mi><mml:mi>B</mml:mi><mml:mn>6</mml:mn></mml:msubsup><m	4.7	265
29	Lattice QCD results on soft and hard probes of strongly interacting matter. Nuclear Physics A, 2017, 967, 137-144.	1.5	4
30	Heavy-flavor production and medium properties in high-energy nuclear collisions --What next?. European Physical Journal A, 2017, 53, 1.	2.5	75
31	Thermal quarkonium physics in the pseudoscalar channel. Journal of High Energy Physics, 2017, 2017, 1.	4.7	23
32	Skewness and kurtosis of net baryon-number distributions at small values of the baryon chemical potential. Physical Review D, 2017, 96, .	4.7	62
33	Thermal dilepton rates and electrical conductivity of the QGP from the lattice. Physical Review D, 2016, 94, .	4.7	54
34	In-medium P-wave quarkonium from the complex lattice QCD potential. Journal of High Energy Physics, 2016, 2016, 1.	4.7	22
35	Flavoured aspects of the QCD thermodynamics. Journal of Physics: Conference Series, 2016, 668, 012003.	0.4	1
36	Conserved Charge Fluctuations from Lattice QCD and the Beam Energy Scan. Nuclear Physics A, 2016, 956, 352-355.	1.5	15

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37	Curvature of the freeze-out line in heavy ion collisions. Physical Review D, 2016, 93, .	4.7	22
38	The Bayesian reconstruction of the in-medium heavy quark potential from lattice QCD and its stability. AIP Conference Proceedings, 2016, , .	0.4	1
39	Lattice constraints on the thermal photon rate. Physical Review D, 2016, 94, .	4.7	36
40	Critical point and scale setting in SU(3) plasma: An update. Physical Review D, 2015, 91, .	4.7	45
41	Nonperturbative estimate of the heavy quark momentum diffusion coefficient. Physical Review D, 2015, 92, .	4.7	86
42	Quarkonium at finite temperature: towards realistic phenomenology from first principles. Journal of High Energy Physics, 2015, 2015, 1-34.	4.7	42
43	Static Quark-Antiquark Potential in the Quark-Gluon Plasma from Lattice QCD. Physical Review Letters, 2015, 114, 082001.	7.8	99
44	Charmonium dissociation and heavy quark transport in hot quenched lattice QCD. EPJ Web of Conferences, 2014, 70, 00061.	0.3	2
45	Continuum estimate of the heavy quark momentum diffusion coefficient Îº. Nuclear Physics A, 2014, 931, 633-637.	1.5	31
46	The melting and abundance of open charm hadrons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 737, 210-215.	4.1	68
47	Additional Strange Hadrons from QCD Thermodynamics and Strangeness Freezeout in Heavy Ion Collisions. Physical Review Letters, 2014, 113, 072001.	7.8	160
48	Recent Developments in Lattice Studies for Quarkonia. Nuclear Physics A, 2013, 910-911, 98-105.	1.5	4
49	Probing deconfinement with Polyakov loop susceptibilities. Physical Review D, 2013, 88, .	4.7	28
50	Strangeness at High Temperatures: From Hadrons to Quarks. Physical Review Letters, 2013, 111, 082301.	7.8	92
51	Polyakov loop fluctuations in SU(3) lattice gauge theory and an effective gluon potential. Physical Review D, 2013, 88, .	4.7	59
52	Thermal mass and dispersion relations of quarks in the deconfined phase of quenched QCD. Physical Review D, 2012, 86, .	4.7	12
53	Charmonium properties in hot quenched lattice QCD. Physical Review D, 2012, 86, .	4.7	133
54	Freeze-Out Conditions in Heavy Ion Collisions from QCD Thermodynamics. Physical Review Letters, 2012, 109, 192302.	7.8	222

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55	On the temperature dependence of the electrical conductivity in hot quenched lattice QCD. Progress in Particle and Nuclear Physics, 2012, 67, 212-217.	14.4	28
56	Title is missing!. Acta Physica Polonica B, Proceedings Supplement, 2012, 5, 925.	0.1	0
57	Thermal dilepton rate and electrical conductivity: An analysis of vector current correlation functions in quenched lattice QCD. Physical Review D, 2011, 83, .	4.7	206
58	Meson screening masses from lattice QCD with two light quarks and one strange quark. European Physical Journal C, 2011, 71, 1.	3.9	77
59	Width of the QCD transition in a Polyakov-loop Dyson-Schwinger equation model. Physical Review D, 2011, 84, .	4.7	31
60	Phase boundary for the chiral transition in (<mml:math) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 552 Td (xmlns:mml="http://www.w3.org/1 QCD at small values of the chemical potential. Physical Review D, 2011, 83, .	4.7	183
61	Electrical conductivity and thermal dilepton rate from quenched lattice QCD. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124178.	3.6	4
62	Heavy quark diffusion from lattice QCD spectral functions. Journal of Physics G: Nuclear and Particle Physics, 2011, 38, 124070.	3.6	20
63	Equation of state for physical quark masses. Physical Review D, 2010, 81, .	4.7	161
64	The RBC-Bielefeld Collaboration. Nuclear Physics A, 2009, 830, 968c.	1.5	0
65	Heavy-quark free energies, internal-energy andÂentropyÂcontributions. European Physical Journal C, 2009, 61, 811-817.	3.9	18
66	Baryon number, strangeness, and electric charge fluctuations in QCD at high temperature. Physical Review D, 2009, 79, .	4.7	221
67	The spatial string tension and dimensional reduction in QCD. Physical Review D, 2008, 78, .	4.7	25
68	Renormalized Polyakov loops in many representations. Physical Review D, 2008, 77, .	4.7	93
69	Heavy quark free energies for three quark systems at finite temperature. Physical Review D, 2008, 77, .	4.7	18
70	QCD equation of state with almost physical quark masses. Physical Review D, 2008, 77, .	4.7	454
71	Color screening and quark-quark interactions in finite temperature QCD. Physical Review D, 2007, 75, .	4.7	35
72	Study of the finite temperature transition in 3-flavor QCD. Physical Review D, 2007, 75, .	4.7	41

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73	Polyakov loop in different representations of SU(3) at finite temperature. Nuclear Physics A, 2007, 785, 278-281.	1.5	15
74	Transition temperature in QCD. Physical Review D, 2006, 74, .	4.7	283
75	The QCD equation of state for two flavours at non-zero chemical potential. Nuclear Physics A, 2006, 774, 837-840.	1.5	18
76	Screening of heavy quark free energies at finite temperatureand non-zero baryon chemical potential. European Physical Journal C, 2006, 46, 179-189.	3.9	36
77	QCD at non-zero temperature and density from the Lattice. Nuclear Physics, Section B, Proceedings Supplements, 2005, 141, 186-190.	0.4	3
78	Fluctuations in the vicinity of the phase transition line for two flavor QCD. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 505-507.	0.4	7
79	Static quark anti-quark free and internal energy in two-flavor QCD. European Physical Journal C, 2005, 43, 63-66.	3.9	12
80	Running coupling of 2-flavor QCD at zero and finite temperature. European Physical Journal C, 2005, 43, 59-62.	3.9	3
81	Heavy quark interactions in finite temperature QCD. European Physical Journal C, 2005, 43, 71-75.	3.9	70
82	Heavy quark potential and quarkonia dissociation rates. European Physical Journal C, 2005, 43, 81-84.	3.9	21
83	Publisherâ€™s Note: Static quark-antiquark free energy and the running coupling at finite temperature [Phys. Rev. DPRVDAQ0556-282170, 074505 (2004)]. Physical Review D, 2005, 72, .	4.7	69
84	THE QGP PHASE AND THE COUPLING. International Journal of Modern Physics A, 2005, 20, 3789-3791.	1.5	1
85	Static quark-antiquark interactions in zero and finite temperature QCD: I. Heavy quark free energies, running coupling, and quarkonium binding. Physical Review D, 2005, 71, .	4.7	338
86	Thermodynamics of two flavor QCD to sixth order in quark chemical potential. Physical Review D, 2005, 71, .	4.7	391
87	Static quark anti-quark free and internal energy in 2-flavor QCD and bound states in the QGP. , 2005, , .		0
88	The screening length in hot QCD. , 2005, , .		1
89	Static quark-antiquark free energy and the running coupling at finite temperature. Physical Review D, 2004, 70, .	4.7	203
90	Study of QCD Thermodynamics at Finite Density by Taylor Expansion. Progress of Theoretical Physics Supplement, 2004, 153, 118-126.	0.1	83

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91	Heavy Quark Free Energies and the Renormalized Polyakov Loop in Full QCD. Progress of Theoretical Physics Supplement, 2004, 153, 287-294.	0.1	52
92	The equation of state for two flavor QCD at finite density. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 545-547.	0.4	0
93	Heavy quark free energies, potentials and the renormalized Polyakov loop. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 560-562.	0.4	48
94	Where is the chiral critical point in 3-flavor QCD?. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 614-616.	0.4	90
95	The quark mass and Î¼ dependence of the QCD chiral critical point. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 517-519.	0.4	25
96	The QCD phase transition at high temperature and low density. Nuclear Physics, Section B, Proceedings Supplements, 2003, 119, 538-540.	0.4	5
97	Equation of state for two flavor QCD at nonzero chemical potential. Physical Review D, 2003, 68, .	4.7	313
98	QCD thermal phase transition in the presence of a small chemical potential. Physical Review D, 2002, 66, .	4.7	457
99	1/M correction to quenched QCD with non-zero baryon density. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 456-458.	0.4	11
100	Aspects of the thermal phase transition of QCD with small chemical potential. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 459-461.	0.4	2
101	Short distance physics with heavy quark potentials. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 519-521.	0.4	6
102	Heavy quarkâ€“antiquark free energy and the renormalized PolyakovÂloop. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 543, 41-47.	4.1	330
103	Lattice calculation of medium effects at short and long distances. Nuclear Physics A, 2002, 698, 400-403.	1.5	13
104	The non-zero baryon number formulation of QCD. Nuclear Physics, Section B, Proceedings Supplements, 2000, 83-84, 369-371.	0.4	3
105	Heavy quark potentials in quenched QCD at high temperature. Physical Review D, 2000, 62, .	4.7	133
106	Thermodynamics of two-colour QCD. Nuclear Physics, Section B, Proceedings Supplements, 1999, 73, 441-443.	0.4	3
107	String breaking in lattice QCD. Nuclear Physics, Section B, Proceedings Supplements, 1999, 73, 447-449.	0.4	7
108	The quenched limit of lattice QCD at non-zero baryon number. Nuclear Physics B, 1999, 558, 307-326.	2.5	66

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109	String breaking in lattice quantum chromodynamics. Physical Review D, 1998, 59, .	4.7	43