

Tetsuo Hatsuda

List of Publications by Year in descending order

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101
papers

5,666
citations

87888
38
h-index

74163
75
g-index

103
all docs

103
docs citations

103
times ranked

2002
citing authors

#	ARTICLE	IF	CITATIONS
1	QCD sum rules for vector mesons in the nuclear medium. Physical Review C, 1992, 46, R34-R38.	2.9	551
2	J/ \bar{r} and \bar{c} in the Deconfined Plasma from Lattice QCD. Physical Review Letters, 2004, 92, 012001.	7.8	404
3	Maximum entropy analysis of the spectral functions in lattice QCD. Progress in Particle and Nuclear Physics, 2001, 46, 459-508.	14.4	390
4	Nuclear Force from Lattice QCD. Physical Review Letters, 2007, 99, 022001.	7.8	368
5	Fluctuation effects in hot quark matter: Precursors of chiral transition at finite temperature. Physical Review Letters, 1985, 55, 158-161.	7.8	285
6	Bound H Dibaryon in Flavor SU(3) Limit of Lattice QCD. Physical Review Letters, 2011, 106, 162002.	7.8	233
7	Theoretical Foundation of the Nuclear Force in QCD and Its Applications to Central and Tensor Forces in Quenched Lattice QCD Simulations. Progress of Theoretical Physics, 2010, 123, 89-128.	2.0	182
8	Hadron properties in the nuclear medium. Reviews of Modern Physics, 2010, 82, 2949-2990.	45.6	173
9	New Critical Point Induced By the Axial Anomaly in Dense QCD. Physical Review Letters, 2006, 97, 122001.	7.8	164
10	Complex Heavy-Quark Potential at Finite Temperature from Lattice QCD. Physical Review Letters, 2012, 108, 162001.	7.8	162
11	Hadron-hadron interactions from imaginary-time Nambu-Bethe-Salpeter wave function on the lattice. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 712, 437-441.	4.1	155
12	Two-baryon potentials and H -dibaryon from 3-flavor lattice QCD simulations. Nuclear Physics A, 2012, 881, 28-43.	1.5	153
13	New Neutron Star Equation of State with Quark-Hadron Crossover. Astrophysical Journal, 2019, 885, 42.	4.5	107
14	Fate of the Tetraquark Candidate Z_c . Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 212 Td $\langle \rangle$	7.8	98
15	Phase structure, collective modes, and the axial anomaly in dense QCD. Physical Review D, 2007, 76, .	4.7	87
16	Most Strange Dibaryon from Lattice QCD. Physical Review Letters, 2018, 120, 212001.	7.8	87
17	Baryon-Baryon Interactions in the Flavor SU(3) Limit from Full QCD Simulations on the Lattice. Progress of Theoretical Physics, 2010, 124, 591-603.	2.0	86
18	$\bar{b}\bar{b}$ and $N\bar{\nu}$ interactions from lattice QCD near the physical point. Nuclear Physics A, 2020, 998, 121737.	1.5	86

#	ARTICLE	IF	CITATIONS
19	Ñ© dibaryon from lattice QCD near the physical point. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 284-289.	4.1	80
20	Nambu-Jona-Lasinio model of dense three-flavor matter with axial anomaly: The low temperature critical point and BEC-BCS diquark crossover. Physical Review D, 2010, 81, .	4.7	74
21	Hyperon-nucleon force from lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 673, 136-141.	4.1	73
22	Exploring Three-Nucleon Forces in Lattice QCD. Progress of Theoretical Physics, 2012, 127, 723-738.	2.0	71
23	In-medium pion and partial restoration of chiral symmetry. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 670, 109-113.	4.1	64
24	Photons from Pb-Pb collisions at ultrarelativistic energies. Physical Review C, 2001, 63, .	2.9	62
25	Thermodynamics of $S = \frac{1}{4} \ln \left(\frac{U}{T^4} \right)$. Physical Review D, 2014, 90, .	4.7	62
26	Spin-2 Ñ© dibaryon from lattice QCD. Nuclear Physics A, 2014, 928, 89-98.	1.5	57
27	Equation of state for SU(3) gauge theory via the energy-momentum tensor under gradient flow. Physical Review D, 2016, 94, .	4.7	57
28	Are two nucleons bound in lattice QCD for heavy quark masses? Consistency check with LÃ¼scher's finite volume formula. Physical Review D, 2017, 96, .	4.7	54
29	Equation of state and heavy-quark free energy at finite temperature and density in two flavor lattice QCD with Wilson quark action. Physical Review D, 2010, 82, .	4.7	52
30	Nucleon-Nucleon Potential and Its Non-Locality in Lattice QCD. Progress of Theoretical Physics, 2011, 125, 1225-1240.	2.0	49
31	First lattice study of low-energy charmonium-hadron interaction. Physical Review D, 2006, 74, .	4.7	48
32	Mirage in temporal correlation functions for baryon-baryon interactions in lattice QCD. Journal of High Energy Physics, 2016, 2016, 1.	4.7	48
33	Electric and magnetic screening masses at finite temperature from generalized Polyakov-line correlations in two-flavor lattice QCD. Physical Review D, 2010, 81, .	4.7	46
34	Probing multistrange dibaryons with proton-omega correlations in high-energy heavy ion collisions. Physical Review C, 2016, 94, .	2.9	46
35	Fixed scale approach to equation of state in lattice QCD. Physical Review D, 2009, 79, .	4.7	44
36	Phase structure of finite temperature QCD in the heavy quark region. Physical Review D, 2011, 84, .	4.7	44

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37	Coupled-channel approach to strangeness $S = -2$ baryon-baryon interactions in lattice QCD. <i>Progress of Theoretical and Experimental Physics</i> , 2015, 2015, 113B01-113B01.	6.6	43
38	Heavy-quark free energy, Debye mass, and spatial string tension at finite temperature in two flavor lattice QCD with Wilson quark action. <i>Physical Review D</i> , 2007, 75, .	4.7	40
39	Spin-orbit force from lattice QCD. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 735, 19-24. Probing $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{ mathvariant="normal"} \rangle \hat{p} \langle \text{/mml:mi} \rangle \langle \text{mml:mi} \text{ mathvariant="normal"} \rangle \hat{p} \langle \text{/mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{ p} \langle \text{/mml:mi} \rangle \langle \text{mml:mi} \text{ mathvariant="normal"} \rangle \hat{p} \langle \text{/mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{ dibaryons with femtoscopic correlations} \text{ in relativistic heavy-ion collisions. Physical Review C, 2020, 101, .}$	4.1	37
40	$\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{ p} \langle \text{/mml:mi} \rangle \langle \text{mml:mi} \text{ mathvariant="normal"} \rangle \hat{p} \langle \text{/mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{ dibaryons with femtoscopic correlations} \text{ in relativistic heavy-ion collisions. Physical Review C, 2020, 101, .}$	2.9	36
41	Equation of State for Nucleonic Matter and its Quark Mass Dependence from the Nuclear Force in Lattice QCD. <i>Physical Review Letters</i> , 2013, 111, 112503.	7.8	35
42	Systematics of the HAL QCD potential at low energies in lattice QCD. <i>Physical Review D</i> , 2019, 99, .	4.7	35
43	$p \hat{z} \hat{z}$ Correlation in Relativistic Heavy Ion Collisions with Nucleon-Hyperon Interaction from Lattice QCD. <i>Nuclear Physics A</i> , 2017, 967, 856-859.	1.5	33
44	Construction of energy-independent potentials above inelastic thresholds in quantum field theories. <i>Physical Review D</i> , 2013, 87, .	4.7	32
45	Thermal fluctuations of gauge fields and first order phase transitions in color superconductivity. <i>Physical Review D</i> , 2004, 69, .	4.7	30
46	Time-dependent heavy-quark potential at finite temperature from gauge-gravity duality. <i>Physical Review D</i> , 2013, 87, .	4.7	30
47	Dibaryon with Highest Charm Number near Unitarity from Lattice QCD. <i>Physical Review Letters</i> , 2021, 127, 072003.	7.8	29
48	Distribution of stress tensor around static quark-anti-quark from Yang-Mills gradient flow. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 789, 210-214.	4.1	28
49	Baryon interactions from lattice QCD with physical quark masses — Nuclear forces and $\hat{z}\hat{z}$ forces —. <i>EPL Web of Conferences</i> , 2018, 175, 05009.	0.3	26
50	Possible Lightest $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \text{ mathvariant="normal"} \rangle \hat{z} \langle \text{/mml:mi} \rangle \langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \text{ mathvariant="normal"} \rangle \hat{z} \langle \text{/mml:mi} \rangle \langle \text{mml:mi} \text{ N} \langle \text{/mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{ Interactions. Physical Review Letters, 2020, 124, 092501.}$	7.8	26
51	Thermal phase transitions and gapless quark spectra in quark matter at high density. <i>Physical Review D</i> , 2005, 71, .	4.7	25
52	Consistency between Lüscher's finite volume method and HAL QCD method for two-baryon systems in lattice QCD. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	25
53	Correlations of the energy-momentum tensor via gradient flow in SU(3) Yang-Mills theory at finite temperature. <i>Physical Review D</i> , 2017, 96, .	4.7	24
54	Functional renormalization group and Kohn-Sham scheme in density functional theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 779, 436-440.	4.1	23

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55	Phase shifts in $\pi\pi$ -scattering from two lattice approaches. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	21
56	Femtoscopic study of coupled-channels $\text{N} \times \text{N}$ and $\text{N} \times \text{M}$ interactions. <i>Physical Review C</i> , 2022, 105, . xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mi>mathvariant="normal">I</mml:mi></mml:mrow></mml:math> and <mml:math>\text{N} \times \text{M} interactions. <i>Physical Review C</i> , 2022, 105, . xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>mathvariant="normal">I</mml:mi></mml:mrow></mml:math>	2.9	20
57	Spectral continuity in dense QCD. <i>Physical Review D</i> , 2008, 78, .	4.7	19
58	Baryon-baryon interactions at short distances: constituent quark model meets lattice QCD. <i>European Physical Journal A</i> , 2020, 56, 1.	2.5	19
59	Superfluid Phase Transitions and Effects of Thermal Pairing Fluctuations in Asymmetric Nuclear Matter. <i>Scientific Reports</i> , 2019, 9, 18477.	3.3	18
60	Simultaneous softening of f_0 and ρ mesons associated with chiral restoration. <i>Physical Review C</i> , 2002, 66, .	2.9	17
61	Application of Fixed Scale Approach to Static Quark Free Energies in Quenched and 2 + 1 Flavor Lattice QCD with Improved Wilson Quark Action. <i>Progress of Theoretical Physics</i> , 2012, 128, 955-970.	2.0	16
62	Omega-Omega interaction from 2+1-flavor lattice quantum chromodynamics. <i>Progress of Theoretical and Experimental Physics</i> , 2015, 2015, 071B01.	6.6	15
63	Lattice quantum chromodynamics and baryon-baryon interactions. <i>Frontiers of Physics</i> , 2018, 13, 1.	5.0	14
64	QCD sum rule for open strange meson K in nuclear matter. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 792, 160-169. Renormalization group flows of the N -component Abelian Higgs model. <i>Physical Review D</i> , 2017, 96, .	4.7	13
65	$\Delta(2380)$ dibaryon from lattice QCD. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 811, 135935.	4.1	13
66	HADRONS ABOVE Tc. <i>International Journal of Modern Physics A</i> , 2006, 21, 688-693.	1.5	10
68	Higgs mechanism with type-II Nambu-Goldstone bosons at finite chemical potential. <i>Physical Review D</i> , 2011, 83, .	4.7	10
69	Validity of the color dipole approximation for diffractive production of heavy quarkonium. <i>Physical Review D</i> , 2000, 62, .	4.7	9
70	Optimized two-baryon operators in lattice QCD. <i>Physical Review D</i> , 2022, 105, .	4.7	6
71	Fixed point structure of the Abelian Higgs model. <i>Physical Review D</i> , 2016, 93, .	4.7	5
72	Distribution of energy-momentum tensor around a static quark in the deconfined phase of SU(3) Yang-Mills theory. <i>Physical Review D</i> , 2020, 102, .	4.7	5

#	ARTICLE		IF	CITATIONS
73	Low-mass dilepton production through transport processes in a quark-gluon plasma. Physical Review C, 2012, 85, .		2.9	4
74	Low mass dileptons from Pb + Au collisions at 158 A.GeV. Pramana - Journal of Physics, 2003, 60, 1073-1077.		1.8	3
75	In-medium spectral functions from lattice QCD. European Physical Journal C, 2005, 43, 45-49.		3.9	3
76	TOPOLOGICAL SUSCEPTIBILITY AT FINITE TEMPERATURE IN A RANDOM MATRIX MODEL. Modern Physics Letters A, 2008, 23, 2465-2468.		1.2	3
77	LATTICE QCD CALCULATION OF NUCLEAR FORCES. Modern Physics Letters A, 2008, 23, 2281-2284.		1.2	3
78	Wandering in Color-Space - Why Is the Life of Pentaquark so Long?. Acta Physica Hungarica A Heavy Ion Physics, 2005, 22, 61-68.		0.4	2
79	FROM LATTICE QCD TO NUCLEAR FORCE. Modern Physics Letters A, 2008, 23, 2265-2272.		1.2	2
80	Dynamical pattern selection of growing cellular mosaic in fish retina. Physical Review E, 2017, 96, 032416.		2.1	2
81	Flows of multicomponent scalar models with U(1) gauge symmetry. Physical Review D, 2019, 100, .		4.7	2
82	Femtoscopic Study of $\Lambda\Xi$ Interaction and Search for the H Dibaryon State Around the $\Lambda\Xi$ Threshold. Few-Body Systems, 2021, 62, 1.		1.5	2
83	STUDY OF HYPERON-NUCLEON POTENTIAL FROM LATTICE QCD. International Journal of Modern Physics E, 2010, 19, 2442-2447.		1.0	1
84	Strangeness nuclear physics from lattice QCD. Nuclear Physics A, 2013, 914, 211-219.		1.5	1
85	Lattice Quantum Chromodynamics. Lecture Notes in Physics, 2017, , 55-91.		0.7	1
86	Chiral-Super Interplay in QCD. Progress of Theoretical Physics Supplement, 2007, 168, 422-425.		0.1	0
87	LATTICE QCD SIMULATION OF HYPERON-NUCLEON POTENTIAL. Modern Physics Letters A, 2008, 23, 2285-2288.		1.2	0
88	HYPERON-NUCLEON FORCES CALCULATED FROM LATTICE QCD. International Journal of Modern Physics A, 2009, 24, 2110-2117.		1.5	0
89	Phase Structure of Dense QCD. Progress of Theoretical Physics Supplement, 2010, 186, 417-426.		0.1	0
90	BEC-BCS crossover driven by the axial anomaly in the NJL model. , 2010, , .		0	

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91	QCD Thermodynamics at Zero and Finite Densities with Improved Wilson Quarks. <i>Progress of Theoretical Physics Supplement</i> , 2010, 186, 556-562.	0.1	0
92	From Yukawa and Nambu to Lattice Nuclear Force., 2011, , .		0
93	New approach to lattice QCD thermodynamics from Yangâ€“Mills gradient flow. <i>Nuclear Physics A</i> , 2014, 931, 1125-1129.	1.5	0
94	The Quark-Gluon Plamsa.. <i>Journal of Plasma and Fusion Research</i> , 2002, 78, 1285-1293.	0.4	0
95	COLOUR SUPERCONDUCTIVITY IN DENSE QCD AND STRUCTURE OF COOPER PAIRS. , 2002, , .		0
96	THERMAL PHASE TRANSITION OF DENSE QCD. , 2004, , .		0
97	THERMAL PHASE TRANSITION OF DENSE QCD. , 2004, , .		0
98	DYNAMICS OF PENTAQUARK IN COLOR MOLECULAR DYNAMICS SIMULATION. , 2005, , .		0
99	STUDY OF HYPERON-NUCLEON POTENTIAL FROM LATTICE QCD. , 2009, , .		0
100	Lattice Nuclear Force. , 2011, , 171-185.		0
101	Baryon Interactions from Lattice QCD. , 2019, , .		0