

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	Femtoscopic study of coupled channels $\pi\pi N$ interactions. Physical Review C, 2022, 105, .	2.9	20
2	Optimized two-baryon operators in lattice QCD. Physical Review D, 2022, 105, .	4.7	6
3	Femtoscopic Study of Ξ Interaction and Search for the H Dibaryon State Around the Ξ Threshold. Few-Body Systems, 2021, 62, 1.	1.5	2
4	Dibaryon with Highest Charm Number near Unitarity from Lattice QCD. Physical Review Letters, 2021, 127, 072003.	7.8	29
5	$\Sigma(2380)$ dibaryon from lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135935.	4.1	13
6	Possible Lightest Hypernucleus with Modern $\pi\pi N$ Interactions. Physical Review Letters, 2020, 124, 092501.	7.8	26
7	$\pi\pi$ and πN interactions from lattice QCD near the physical point. Nuclear Physics A, 2020, 998, 121737.	1.5	86
8	Probing $\pi\pi$ and πN interactions from lattice QCD near the physical point. Nuclear Physics A, 2020, 998, 121737.	2.9	36
9	Baryon-baryon interactions at short distances: constituent quark model meets lattice QCD. European Physical Journal A, 2020, 56, 1.	2.5	19
10	Distribution of energy-momentum tensor around a static quark in the deconfined phase of SU(3) Yang-Mills theory. Physical Review D, 2020, 102, .	4.7	5
11	Flows of multicomponent scalar models with U(1) gauge symmetry. Physical Review D, 2019, 100, .	4.7	2
12	Distribution of stress tensor around static quark-anti-quark from Yang-Mills gradient flow. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 210-214.	4.1	28
13	$\pi\pi$ 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
14	QCD sum rule for open strange meson $\pi\pi K$ in nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 160-169.	4.1	11
15	Consistency between Λ 's finite volume method and HAL QCD method for two-baryon systems in lattice QCD. Journal of High Energy Physics, 2019, 2019, 1.	4.7	25
16	Systematics of the HAL QCD potential at low energies in lattice QCD. Physical Review D, 2019, 99, .	4.7	35
17	Superfluid Phase Transitions and Effects of Thermal Pairing Fluctuations in Asymmetric Nuclear Matter. Scientific Reports, 2019, 9, 18477.	3.3	18
18	New Neutron Star Equation of State with Quark-Hadron Crossover. Astrophysical Journal, 2019, 885, 42.	4.5	107

#	ARTICLE	IF	CITATIONS
19	Baryon Interactions from Lattice QCD. , 2019, , .		0
20	Functional renormalization group and Kohn-Sham scheme in density functional theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 436-440.	4.1	23
21	Lattice quantum chromodynamics and baryon-baryon interactions. Frontiers of Physics, 2018, 13, 1.	5.0	14
22	Baryon interactions from lattice QCD with physical quark masses " Nuclear forces and " forces ". EPJ Web of Conferences, 2018, 175, 05009.	0.3	26
23	Most Strange Dibaryon from Lattice QCD. Physical Review Letters, 2018, 120, 212001.	7.8	87
24	Dynamical pattern selection of growing cellular mosaic in fish retina. Physical Review E, 2017, 96, 032416.	2.1	2
25	Are two nucleons bound in lattice QCD for heavy quark masses? Consistency check with $L^{1/4}$ scaling's finite volume formula. Physical Review D, 2017, 96, .	4.7	54
26	p - Λ Correlation in Relativistic Heavy Ion Collisions with Nucleon-Hyperon Interaction from Lattice QCD. Nuclear Physics A, 2017, 967, 856-859.	1.5	33
27	Renormalization group flows of the N -component Abelian Higgs model. Physical Review D, 2017, 96, .	4.7	13
28	Correlations of the energy-momentum tensor via gradient flow in SU(3) Yang-Mills theory at finite temperature. Physical Review D, 2017, 96, .	4.7	24
29	Lattice Quantum Chromodynamics. Lecture Notes in Physics, 2017, , 55-91.	0.7	1
30	Mirage in temporal correlation functions for baryon-baryon interactions in lattice QCD. Journal of High Energy Physics, 2016, 2016, 1.	4.7	48
31	Fate of the Tetraquark Candidate Z_c \rightarrow cc \rightarrow 3900 \rightarrow T_{jETQ1} 1.0784314 $rgBT/Overlock$ $10Tf50252Td$ (stretchy="false")	7.8	98
32	Fixed point structure of the Abelian Higgs model. Physical Review D, 2016, 93, .	4.7	5
33	Equation of state for SU(3) gauge theory via the energy-momentum tensor under gradient flow. Physical Review D, 2016, 94, .	4.7	57
34	Probing multistrange dibaryons with proton-omega correlations in high-energy heavy ion collisions. Physical Review C, 2016, 94, .	2.9	46
35	Coupled-channel approach to strangeness $S = -2$ baryon-baryon interactions in lattice QCD. Progress of Theoretical and Experimental Physics, 2015, 2015, 113B01-113B01.	6.6	43
36	Omega-Omega interaction from 2+1-flavor lattice quantum chromodynamics. Progress of Theoretical and Experimental Physics, 2015, 2015, 071B01.	6.6	15

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37	New approach to lattice QCD thermodynamics from Yang-Mills gradient flow. Nuclear Physics A, 2014, 931, 1125-1129.	1.5	0
38	Thermodynamics of $SU(3)$ gauge theory at finite temperature. Physical Review D, 2014, 90, .	4.1	37
39	Spin-orbit force from lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 19-24.	1.5	57
40	Spin-2 $\bar{N}N$ dibaryon from lattice QCD. Nuclear Physics A, 2014, 928, 89-98.	1.5	57
41	Phase shifts in $\pi\pi$ -scattering from two lattice approaches. Journal of High Energy Physics, 2013, 2013, 1.	4.7	21
42	Strangeness nuclear physics from lattice QCD. Nuclear Physics A, 2013, 914, 211-219.	1.5	1
43	Time-dependent heavy-quark potential at finite temperature from gauge-gravity duality. Physical Review D, 2013, 87, .	4.7	30
44	Equation of State for Nucleonic Matter and its Quark Mass Dependence from the Nuclear Force in Lattice QCD. Physical Review Letters, 2013, 111, 112503.	7.8	35
45	Construction of energy-independent potentials above inelastic thresholds in quantum field theories. Physical Review D, 2013, 87, .	4.7	32
46	Exploring Three-Nucleon Forces in Lattice QCD. Progress of Theoretical Physics, 2012, 127, 723-738.	2.0	71
47	Complex Heavy-Quark Potential at Finite Temperature from Lattice QCD. Physical Review Letters, 2012, 108, 162001.	7.8	162
48	Low-mass dilepton production through transport processes in a quark-gluon plasma. Physical Review C, 2012, 85, .	2.9	4
49	Application of Fixed Scale Approach to Static Quark Free Energies in Quenched and 2 + 1 Flavor Lattice QCD with Improved Wilson Quark Action. Progress of Theoretical Physics, 2012, 128, 955-970.	2.0	16
50	Two-baryon potentials and H-dibaryon from 3-flavor lattice QCD simulations. Nuclear Physics A, 2012, 881, 28-43.	1.5	153
51	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
52	Bound H Dibaryon in Flavor $SU(3)$ Limit of Lattice QCD. Physical Review Letters, 2011, 106, 162002.	7.8	233
53	Higgs mechanism with type-II Nambu-Goldstone bosons at finite chemical potential. Physical Review D, 2011, 83, .	4.7	10
54	Phase structure of finite temperature QCD in the heavy quark region. Physical Review D, 2011, 84, .	4.7	44

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55	Nucleon-Nucleon Potential and Its Non-Locality in Lattice QCD. Progress of Theoretical Physics, 2011, 125, 1225-1240.	2.0	49
56	From Yukawa and Nambu to Lattice Nuclear Force. , 2011, , .		0
57	Lattice Nuclear Force. , 2011, , 171-185.		0
58	Hadron properties in the nuclear medium. Reviews of Modern Physics, 2010, 82, 2949-2990.	45.6	173
59	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
60	Phase Structure of Dense QCD. Progress of Theoretical Physics Supplement, 2010, 186, 417-426.	0.1	0
61	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
62	STUDY OF HYPERON-NUCLEON POTENTIAL FROM LATTICE QCD. International Journal of Modern Physics E, 2010, 19, 2442-2447.	1.0	1
63	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
64	BEC-BCS crossover driven by the axial anomaly in the NJL model. , 2010, , .		0
65	QCD Thermodynamics at Zero and Finite Densities with Improved Wilson Quarks. Progress of Theoretical Physics Supplement, 2010, 186, 556-562.	0.1	0
66	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
67	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
68	HYPERON-NUCLEON FORCES CALCULATED FROM LATTICE QCD. International Journal of Modern Physics A, 2009, 24, 2110-2117.	1.5	0
69	Hyperon-nucleon force from lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 673, 136-141.	4.1	73
70	Fixed scale approach to equation of state in lattice QCD. Physical Review D, 2009, 79, .	4.7	44
71	STUDY OF HYPERON-NUCLEON POTENTIAL FROM LATTICE QCD. , 2009, , .		0
72	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

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73	Spectral continuity in dense QCD. <i>Physical Review D</i> , 2008, 78, .	4.7	19
74	LATTICE QCD SIMULATION OF HYPERON-NUCLEON POTENTIAL. <i>Modern Physics Letters A</i> , 2008, 23, 2285-2288.	1.2	0
75	FROM LATTICE QCD TO NUCLEAR FORCE. <i>Modern Physics Letters A</i> , 2008, 23, 2265-2272.	1.2	2
76	TOPOLOGICAL SUSCEPTIBILITY AT FINITE TEMPERATURE IN A RANDOM MATRIX MODEL. <i>Modern Physics Letters A</i> , 2008, 23, 2465-2468.	1.2	3
77	LATTICE QCD CALCULATION OF NUCLEAR FORCES. <i>Modern Physics Letters A</i> , 2008, 23, 2281-2284.	1.2	3
78	Chiral-Super Interplay in QCD. <i>Progress of Theoretical Physics Supplement</i> , 2007, 168, 422-425.	0.1	0
79	Nuclear Force from Lattice QCD. <i>Physical Review Letters</i> , 2007, 99, 022001.	7.8	368
80	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
81	Phase structure, collective modes, and the axial anomaly in dense QCD. <i>Physical Review D</i> , 2007, 76, .	4.7	87
82	First lattice study of low-energy charmonium-hadron interaction. <i>Physical Review D</i> , 2006, 74, .	4.7	48
83	New Critical Point Induced By the Axial Anomaly in Dense QCD. <i>Physical Review Letters</i> , 2006, 97, 122001.	7.8	164
84	HADRONS ABOVE T_c . <i>International Journal of Modern Physics A</i> , 2006, 21, 688-693.	1.5	10
85	In-medium spectral functions from lattice QCD. <i>European Physical Journal C</i> , 2005, 43, 45-49.	3.9	3
86	Wandering in Color-Space - Why Is the Life of Pentaquark so Long?. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2005, 22, 61-68.	0.4	2
87	Thermal phase transitions and gapless quark spectra in quark matter at high density. <i>Physical Review D</i> , 2005, 71, .	4.7	25
88	DYNAMICS OF PENTAQUARK IN COLOR MOLECULAR DYNAMICS SIMULATION. , 2005, , .		0
89	Thermal fluctuations of gauge fields and first order phase transitions in color superconductivity. <i>Physical Review D</i> , 2004, 69, .	4.7	30
90	J/ψ and χ in the Deconfined Plasma from Lattice QCD. <i>Physical Review Letters</i> , 2004, 92, 012001.	7.8	404

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91	THERMAL PHASE TRANSITION OF DENSE QCD. , 2004, , .		0
92	THERMAL PHASE TRANSITION OF DENSE QCD. , 2004, , .		0
93	Low mass dileptons from Pb + Au collisions at 158 A.GeV. Pramana - Journal of Physics, 2003, 60, 1073-1077.	1.8	3
94	Simultaneous softening of f_0 and ρ mesons associated with chiral restoration. Physical Review C, 2002, 66, .	2.9	17
95	The Quark-Gluon Plasma.. Journal of Plasma and Fusion Research, 2002, 78, 1285-1293.	0.4	0
96	COLOUR SUPERCONDUCTIVITY IN DENSE QCD AND STRUCTURE OF COOPER PAIRS. , 2002, , .		0
97	Maximum entropy analysis of the spectral functions in lattice QCD. Progress in Particle and Nuclear Physics, 2001, 46, 459-508.	14.4	390
98	Photons from Pb-Pb collisions at ultrarelativistic energies. Physical Review C, 2001, 63, .	2.9	62
99	Validity of the color dipole approximation for diffractive production of heavy quarkonium. Physical Review D, 2000, 62, .	4.7	9
100	QCD sum rules for vector mesons in the nuclear medium. Physical Review C, 1992, 46, R34-R38.	2.9	551
101	Fluctuation effects in hot quark matter: Precursors of chiral transition at finite temperature. Physical Review Letters, 1985, 55, 158-161.	7.8	285