

# Heng Tong Ding

## List of Publications by Year in descending order

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Version: 2024-02-01

59

papers

4,993

citations

201674

27

h-index

155660

55

g-index

59

all docs

59

docs citations

59

times ranked

3404

citing authors

#	ARTICLE	IF	CITATIONS
1	Chiral and deconfinement aspects of the QCD transition. Physical Review D, 2012, 85, .	4.7	752
2	Equation of state in ( $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" } \rangle \text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 707 Td (}$ d QCD. Physical Review D, 2014, 90, .	4.7	694
3	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
4	QCD Phase Transition with Chiral Quarks and Physical Quark Masses. Physical Review Letters, 2014, 113, 082001.	7.8	286
5	QCD equation of state to $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" } \rangle \text{display="inline"} \langle \text{mml:mi} \text{ mathvariant="script" } \rangle O \langle \text{mml:mo} \text{ stretchy="false" } \rangle ( \langle \text{mml:mo} \text{ } \rangle \langle \text{mml:msubsup} \rangle \langle \text{mml:mi} \text{ } \rangle ^1/4 \langle \text{mml:mi} \text{ } \rangle \langle \text{mml:mi} \text{ } \rangle B \langle \text{mml:mi} \text{ } \rangle \langle \text{mml:mn} \text{ } \rangle 6 \langle \text{mml:mn} \text{ } \rangle ^{47} \langle \text{mml:msubsup} \rangle \langle \text{mml:mi} \text{ } \rangle ^{265} \langle \text{mml:mi} \text{ } \rangle ^{265} )$	4.7	265
6	Heavy-ion collisions at the LHCâ€”Last call for predictions. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 054001.	3.6	255
7	Thermodynamics of strong-interaction matter from lattice QCD. International Journal of Modern Physics E, 2015, 24, 1530007.	1.0	251
8	Freeze-Out Conditions in Heavy Ion Collisions from QCD Thermodynamics. Physical Review Letters, 2012, 109, 192302.	7.8	222
9	Fluctuations and correlations of net baryon number, electric charge, and strangeness: A comparison of lattice QCD results with the hadron resonance gas model. Physical Review D, 2012, 86, .	4.7	211
10	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
11	Additional Strange Hadrons from QCD Thermodynamics and Strangeness Freezeout in Heavy Ion Collisions. Physical Review Letters, 2014, 113, 072001.	7.8	160
12	Charmonium properties in hot quenched lattice QCD. Physical Review D, 2012, 86, .	4.7	133
13	Chiral Phase Transition Temperature in ( $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" } \rangle \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 272 Td (}$ x Additional Strange Hadrons from QCD Thermodynamics and Strangeness Freezeout in Heavy Ion Collisions. Physical Review Letters, 2014, 113, 072001.	7.8	116
14	Strangeness at High Temperatures: From Hadrons to Quarks. Physical Review Letters, 2013, 111, 082301.	7.8	92
15	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
16	Diagonal and off-diagonal quark number susceptibilities at high temperatures. Physical Review D, 2015, 92, .	4.7	81
17	Polyakov loop in $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" } \rangle \text{display="inline"} \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \text{ } \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \text{ } \rangle + \langle \text{mml:mo} \text{ } \rangle \langle \text{mml:mn} \text{ } \rangle 1 \langle \text{mml:mn} \text{ } \rangle \langle \text{mml:mrow} \times \langle \text{mml:math} \text{ flavor="QCD" } \rangle \text{QCD from low to high temperatures. Physical Review D, 2016, 93, .}$	4.7	72
18	QCD chiral transition, $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML" } \rangle \text{display="inline"} \langle \text{mml:mi} \text{ } \rangle U \langle \text{mml:mi} \text{ } \rangle \langle \text{mml:mo} \text{ stretchy="false" } \rangle ( \langle \text{mml:mo} \text{ } \rangle \langle \text{mml:mn} \text{ } \rangle 1 \langle \text{mml:mn} \text{ } \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mo} \text{ } \rangle \text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 47 Td (str} \langle \text{mml:math} \text{ flavor="QCD" } \rangle \text{spectrum using domain wall fermions. Physical Review D, 2014, 89, .}$	4.7	72

#	ARTICLE	IF	CITATIONS
19	Chiral transition and lattice QCD using domain wall fermions. <i>Physical Review D</i> , 2012, 86, .	4.0	769
20	The melting and abundance of open charm hadrons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2014, 737, 210-215.	4.1	68
21	Skewness and kurtosis of net baryon-number distributions at small values of the baryon chemical potential. <i>Physical Review D</i> , 2017, 96, .	4.7	62
22	Quark number susceptibilities at high temperatures. <i>Physical Review D</i> , 2013, 88, .	4.7	55
23	Thermal dilepton rates and electrical conductivity of the QGP from the lattice. <i>Physical Review D</i> , 2016, 94, .	4.7	54
24	Meson screening masses in ( Chiral phase structure of three flavor QCD at vanishing baryon number density. <i>Physical Review D</i> , 2017, 95, .	4.7	48
25	Correlated Dirac Eigenvalues and Axial Anomaly in Chiral Symmetric QCD. <i>Physical Review Letters</i> , 2021, 126, 082001.	7.8	35
26	Chiral properties of ( Curvature of the freeze-out line in heavy ion collisions. <i>Physical Review D</i> , 2016, 93, .	4.7	28
28	Heavy quark diffusion from lattice QCD spectral functions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2011, 38, 124070.	3.6	20
31	New developments in lattice QCD on equilibrium physics and phase diagram. <i>Nuclear Physics A</i> , 2021, 1005, 121940.	1.5	16
33	Conserved Charge Fluctuations from Lattice QCD and the Beam Energy Scan. <i>Nuclear Physics A</i> , 2016, 956, 352-355.	1.5	15
34	Physics perspectives of heavy-ion collisions at very high energy. <i>Science China: Physics, Mechanics and Astronomy</i> , 2016, 59, 1.	5.1	15
35	Chiral phase transition of (2+1)-flavor QCD. <i>Nuclear Physics A</i> , 2019, 982, 211-214.	1.5	15
36	Fluctuations and correlations of net baryon number, electric charge and strangeness in a background magnetic field. <i>European Physical Journal A</i> , 2021, 57, 1.	2.5	15

#	ARTICLE	IF	CITATIONS
37	Effect of heavy-quark energy loss on the muon differential production cross section in $\text{Pb} + \text{Pb}$ collisions at $\sqrt{s_{\text{NN}}} = 200 \text{ GeV}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 663, 202-208.		
38	Chiral phase structure of three flavor QCD in a background magnetic field. Physical Review D, 2020, 102, .	4.7	12
39	Chiral condensates and screening masses of neutral pseudoscalar mesons in thermomagnetic QCD medium. Physical Review D, 2022, 105, .	4.7	12
40	Recent lattice QCD results and phase diagram of strongly interacting matter. Nuclear Physics A, 2014, 931, 52-62.	1.5	11
41	Momentum dependences of charmonium properties from lattice QCD. Nuclear Physics A, 2013, 904-905, 619c-622c.	1.5	8
42	Charmonium and bottomonium spectral functions in the vector channel. Nuclear Physics A, 2019, 982, 715-718.	1.5	7
43	QCD Phase Structure in Strong Magnetic Fields. Acta Physica Polonica B, Proceedings Supplement, 2021, 14, 403.	0.1	6
44	Phase structure of three flavor QCD in external magnetic fields using HISQ fermions. , 2019, , .		6
45	Charm and beauty in the deconfined plasma from quenched lattice QCD. Physical Review D, 2021, 104, .	4.7	6
46	Exploring QCD phase diagram at vanishing baryon density on the lattice. Journal of Physics: Conference Series, 2013, 432, 012027.	0.4	4
47	Chiral phase transition of three flavor QCD with nonzero magnetic field using standard staggered fermions. EPJ Web of Conferences, 2018, 175, 07041.	0.3	4
48	STUDYING THE ENERGY LOSS OF HEAVY QUARKS VIA SINGLE MUON PRODUCTION IN $\text{PbPb}$ COLLISIONS AT $\sqrt{s_{\text{NN}}} = 5.5 \text{ GeV}$ . International Journal of Modern Physics E, 2007, 16, 2041-2047.	1.0	3
49	In-medium hadron properties from lattice QCD. EPJ Web of Conferences, 2012, 36, 00008.	0.3	3
50	Hard and thermal probes of QGP from the perspective of lattice QCD. Nuclear Physics A, 2014, 932, 500-507.	1.5	3
51	Thermodynamics of Strong-Interaction Matter from Lattice QCD. , 2016, , 1-65.		3
52	Continuum extrapolation of quarkonium correlators at non-zero temperature. EPJ Web of Conferences, 2018, 175, 07010.	0.3	3
53	Thermal modifications of quarkonia and heavy quark diffusion from a comparison of continuum-extrapolated lattice results to perturbative QCD. , 2020, , .		3
54	Quark number susceptibilities and color screening at high temperatures. Journal of Physics: Conference Series, 2012, 389, 012017.	0.4	2

#	ARTICLE	IF	CITATIONS
55	Charmonium dissociation and heavy quark transport in hot quenched lattice QCD. EPJ Web of Conferences, 2014, 70, 00061.	0.3	2
56	Insight into Thermal Modifications of Quarkonia From a Comparison of Continuum-Extrapolated Lattice Results to Perturbative QCD. Proceedings (mdpi), 2019, 10, 45.	0.2	2
57	Heavy-quark energy loss observed via muon spectra in Pb–Pb collisions at $\sqrt{s_{\text{NN}}} = 5.5, \text{TeV}$ . Journal of Physics G: Nuclear and Particle Physics, 2009, 36, 064055.	3.6	1
58	Thermal modifications of charmonia and bottomonia from spatial correlation functions. EPJ Web of Conferences, 2018, 175, 07021.	0.3	1
59	The chiral phase transition temperature in (2+1)-flavor QCD., 2020, , .		1