

Masakiyo Kitazawa

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

1,540
citations

279798

23
h-index

315739

38
g-index

64
all docs

64
docs citations

64
times ranked

621
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Third Moments of Conserved Charges as Probes of QCD Phase Structure. Physical Review Letters, 2009, 103, 262301. | 7.8 | 199 |
| 2 | Revealing baryon number fluctuations from proton number fluctuations in relativistic heavy ion collisions. Physical Review C, 2012, 85, . | 2.9 | 108 |
| 3 | Relation between baryon number fluctuations and experimentally observed proton number fluctuations in relativistic heavy ion collisions. Physical Review C, 2012, 86, . | 2.9 | 106 |
| 4 | Fluctuations of conserved charges in relativistic heavy ion collisions: An introduction. Progress in Particle and Nuclear Physics, 2016, 90, 299-342. | 14.4 | 84 |
| 5 | Thermodynamics of $SU(3)$ gauge theory via the energy-momentum tensor under gradient flow. Physical Review D, 2014, 90, . | 4.1 | 34 |
| 6 | Equation of state for $SU(3)$ gauge theory via the energy-momentum tensor under gradient flow. Physical Review D, 2016, 94, . | 4.7 | 57 |
| 7 | Dynamics of critical fluctuations: Theory and phenomenology of heavy-ion collisions. Nuclear Physics A, 2020, 1003, 122016. | 1.5 | 54 |
| 8 | Dynamically integrated transport approach for heavy-ion collisions at high baryon density. Physical Review C, 2018, 98, . | 2.9 | 47 |
| 9 | More efficient formulas for efficiency correction of cumulants and effect of using averaged efficiency. Physical Review C, 2017, 95, . | 2.9 | 42 |
| 10 | Quark propagator at finite temperature and finite momentum in quenched lattice QCD. Physical Review D, 2009, 80, . | 4.7 | 39 |
| 11 | Quark spectrum above but near critical temperature of chiral transition. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 633, 269-274. | 4.1 | 37 |
| 12 | Non-equilibrium time evolution of higher order cumulants of conserved charges and event-by-event analysis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 728, 386-392. | 4.1 | 37 |
| 13 | Exploring $SU(3)$ gauge theory via the energy-momentum tensor under gradient flow. Physical Review D, 2017, 96, . | 4.1 | 34 |
| 14 | Properties and uses of factorial cumulants in relativistic heavy-ion collisions. Physical Review C, 2017, 96, . | 2.9 | 33 |
| 15 | Effects of global charge conservation on time evolution of cumulants of conserved charges in relativistic heavy ion collisions. Physical Review C, 2014, 90, . | 2.9 | 32 |
| 16 | Efficient formulas for efficiency correction of cumulants. Physical Review C, 2016, 93, . | 2.9 | 28 |
| 17 | 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 |
| 18 | Spectral properties of quarks above $SU(3)$ gauge theory via the energy-momentum tensor under gradient flow. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 658, 45-49. | 4.1 | 26 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Spectral properties of massless and massive quarks coupled with massive boson at finite temperature. Physical Review D, 2008, 77, . | 4.7 | 24 |
| 20 | Dynamical evolution of critical fluctuations and its observation in heavy ion collisions. Physical Review C, 2017, 95, . | 2.9 | 24 |
| 21 | 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 |
| 22 | Anisotropic pressure induced by finite-size effects in SU(3) Yang-Mills theory. Physical Review D, 2019, 99, . | 4.7 | 24 |
| 23 | Thermodynamics in quenched QCD: energy-momentum tensor with two-loop order coefficients in the gradient-flow formalism. Progress of Theoretical and Experimental Physics, 2019, 2019, . | 6.6 | 24 |
| 24 | Thermal blurring of event-by-event fluctuations generated by rapidity conversion. Physical Review C, 2016, 94, . | 2.9 | 22 |
| 25 | In-medium dispersion relations of charmonia studied by the maximum entropy method. Physical Review D, 2017, 95, . | 4.7 | 19 |
| 26 | Rapidity window dependences of higher order cumulants and diffusion master equation. Nuclear Physics A, 2015, 942, 65-96. | 1.5 | 18 |
| 27 | A general procedure for detector response correction of higher order cumulants. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 906, 10-17. | 1.6 | 16 |
| 28 | Latent heat at the first order phase transition point of SU(3) gauge theory. Physical Review D, 2016, 94, . | 4.7 | 15 |
| 29 | $\langle N \rangle = \langle \ln Z \rangle = \langle \ln \int \mathcal{D}\psi \mathcal{D}\bar{\psi} \mathcal{D}U e^{-S[\psi, \bar{\psi}, U]} \rangle$ QCD thermodynamics with gradient flow using two-loop matching coefficients. Physical Review D, 2020, 102, . | 4.7 | 15 |
| 30 | Non-Fermi liquid behavior induced by resonant diquark-pair scattering in heated quark matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 631, 157-163. | 4.1 | 14 |
| 31 | A study of stress-tensor distribution around the flux tube in the Abelian Higgs model. Progress of Theoretical and Experimental Physics, 2019, 2019, . | 6.6 | 14 |
| 32 | End point of the first-order phase transition of QCD in the heavy quark region by reweighting from quenched QCD. Physical Review D, 2020, 101, . | 4.7 | 14 |
| 33 | Thermal mass and dispersion relations of quarks in the deconfined phase of quenched QCD. Physical Review D, 2012, 86, . | 4.7 | 12 |
| 34 | Issues with the search for critical point in QCD with relativistic heavy ion collisions. Physical Review C, 2020, 101, . | 2.9 | 10 |
| 35 | Energy-momentum tensor correlation function in $N_f = 2 + 1$ full QCD at finite temperature. EPJ Web of Conferences, 2018, 175, 07013. | 0.3 | 8 |
| 36 | Latent heat and pressure gap at the first-order deconfining phase transition of SU(3) Yang-Mills theory using the small flow-time expansion method. Progress of Theoretical and Experimental Physics, 2021, 2021, . | 6.6 | 8 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Pileup corrections on higher-order cumulants. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 984, 164632. | 1.6 | 8 |
| 38 | Effect of secondary protons on baryon and proton number cumulants in event-by-event analysis. Physical Review C, 2013, 87, . | 2.9 | 6 |
| 39 | Equation of state in (2+1)-flavor QCD at physical point with improved Wilson fermion action using gradient flow. EPJ Web of Conferences, 2018, 175, 07023. | 0.3 | 6 |
| 40 | Critical fluctuations in a dynamically expanding heavy-ion collision. Nuclear Physics A, 2021, 1005, 121797. | 1.5 | 6 |
| 41 | Finite-size scaling around the critical point in the heavy quark region of QCD. Physical Review D, 2021, 104, . | 4.7 | 6 |
| 42 | Possible generation of anomalously soft quark excitations at nonzero temperature: Nonhyperbolic dispersion of the parapiion and van Hove singularity. Physical Review D, 2014, 89, . | 4.7 | 5 |
| 43 | 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 |
| 44 | Chiral transition and mesonic excitations for quarks with thermal masses. Physical Review D, 2007, 75, . | 4.7 | 4 |
| 45 | Spectral Properties of Quarks at Finite Temperature in Lattice QCD. Nuclear Physics A, 2009, 830, 223c-226c. | 1.5 | 4 |
| 46 | Emergence of soft quark excitations by the coupling with a soft mode of the QCD critical point. Physical Review D, 2014, 90, . | 4.7 | 4 |
| 47 | Dilepton production spectrum above T_c with a lattice quark propagator. Physical Review D, 2015, 92, . | 4.7 | 4 |
| 48 | Fluctuations and QCD phase structure. Nuclear Physics A, 2014, 931, 92-102. | 1.5 | 3 |
| 49 | Classifying topological charge in SU(3) Yang-Mills theory with machine learning. Progress of Theoretical and Experimental Physics, 2021, 2021, . | 6.6 | 3 |
| 50 | Scope and convergence of the hopping parameter expansion in finite temperature QCD with heavy quarks around the critical point. Progress of Theoretical and Experimental Physics, 0, , . | 6.6 | 2 |
| 51 | Quasiparticle Picture of Quarks near Chiral Phase Transition. Acta Physica Hungarica A Heavy Ion Physics, 2006, 27, 343-346. | 0.4 | 1 |
| 52 | Equation of state near the first order phase transition point of SU(3) gauge theory using gradient flow. , 2019, , . | | 1 |
| 53 | Study of energy-momentum tensor correlation function in $N_f=2+1$ full QCD for QGP viscosities. , 2019, , . | | 1 |
| 54 | Third moments of conserved charges in phase diagram of QCD. , 2011, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | Diffusion of non-Gaussianity in heavy ion collisions. Journal of Physics: Conference Series, 2014, 509, 012053. | 0.4 | 0 |
| 56 | Importance of third moments of fluctuations of conserved charges in relativistic heavy-ion collisions. European Physical Journal A, 2016, 52, 1. | 2.5 | 0 |
| 57 | Photon production spectrum above T_c with a lattice quark propagator. Progress of Theoretical and Experimental Physics, 2018, 2018, . | 6.6 | 0 |
| 58 | Dynamically Integrated Transport Model for High-energy Nuclear Collisions at $(3 \leq \sqrt{s_{NN}} \leq 30) \text{ GeV}$. , 2020, , . | | 0 |