

Yuya Tanizaki

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

1,330
citations

257101

24
h-index

344852

36
g-index

49
all docs

49
docs citations

49
times ranked

444
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Circle compactification and \hat{c} Hooft anomaly. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 77 |
| 2 | Real-time Feynman path integral with Picard-Lefschetz theory and its applications to quantum tunneling. Annals of Physics, 2014, 351, 250-274. | 1.0 | 75 |
| 3 | Vacuum structure of bifundamental gauge theories at finite topological angles. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 70 |
| 4 | Anomaly and global inconsistency matching: \hat{c} angles, nonlinear sigma mod. Physical Review B, 2018, 98. | 1.1 | 68 |
| 5 | Anomaly matching for the phase diagram of massless Z -QCD. Physical Review D, 2018, 97, . | 1.6 | 65 |
| 6 | Lefschetz-thimble analysis of the sign problem in one-site fermion model. New Journal of Physics, 2016, 18, 033002. | 1.2 | 64 |
| 7 | Structure of Lefschetz thimbles in simple fermionic systems. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 63 |
| 8 | Anomaly constraint on massless QCD and the role of Skyrmions in chiral symmetry breaking. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 59 |
| 9 | Modified instanton sum in QCD and higher-groups. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 59 |
| 10 | Global inconsistency, \hat{c} Hooft anomaly, and level crossing in quantum mechanics. Progress of Theoretical and Experimental Physics, 2017, 2017, . | 1.8 | 47 |
| 11 | Semi-Abelian gauge theories, non-invertible symmetries, and string tensions beyond N-ality. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 44 |
| 12 | C anomaly matching in bosonic quantum field theory and spin chains. Physical Review B, 2018, 97, . | 1.6 | 43 |
| 13 | Fractional \hat{c} angle, \hat{c} Hooft anomaly, and quantum instantons in charge-q multi-flavor Schwinger model. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 36 |
| 14 | Noninvertible 1-form symmetry and Casimir scaling in 2D Yang-Mills theory. Physical Review D, 2021, 104, . | 1.6 | 36 |
| 15 | Evading the sign problem in the mean-field approximation through Lefschetz-thimble path integral. Physical Review D, 2015, 91, . | 1.6 | 35 |
| 16 | Quark-Hadron Continuity beyond the Ginzburg-Landau Paradigm. Physical Review Letters, 2019, 122, 212001. | 2.9 | 35 |
| 17 | Lefschetz-thimble techniques for path integral of zero-dimensional $O(n)$ sigma models. Physical Review D, 2015, 91, . | 1.6 | 34 |
| 18 | Cheshire Cat Resurgence, Self-Resurgence and Quasi-Exact Solvable Systems. Communications in Mathematical Physics, 2018, 364, 835-878. | 1.0 | 32 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Anomalies, a mod 2 index, and dynamics of 2d adjoint QCD. SciPost Physics, 2020, 8, . | 1.5 | 31 |
| 20 | Hamilton dynamics for Lefschetz-thimble integration akin to the complex Langevin method. Progress of Theoretical and Experimental Physics, 2015, 2015, 111A01-111A01. | 1.8 | 28 |
| 21 | Complex saddle points and the sign problem in complex Langevin simulation. Nuclear Physics B, 2016, 911, 94-105. | 0.9 | 27 |
| 22 | Giant photocurrent in asymmetric Weyl semimetals from the helical magnetic effect. Physical Review B, 2018, 98, . | 1.1 | 26 |
| 23 | From quantum to classical dynamics: The relativistic $\mathcal{O}(N)$ functional renormalization group. Physical Review D, 2015, 92, . | 1.6 | 25 |
| 24 | Quantum distillation of Hilbert spaces, semi-classics and anomaly matching. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 25 |
| 25 | Multi-flavor massless QED2 at finite densities via Lefschetz thimbles. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 22 |
| 26 | Topological order in the color-flavor locked phase of a $(\mathcal{O}(N) \times \mathcal{O}(N))$ model. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 22 |
| 27 | Phase structure of the twisted $SU(3)/U(1)^2$ flag sigma model on \hat{A}_1 . Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 19 |
| 28 | Topological properties of the chiral magnetic effect in multi-Weyl semimetals. Physical Review B, 2017, 96, . | 1.1 | 18 |
| 29 | Gradient flows without blow-up for Lefschetz thimbles. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 18 |
| 30 | Topological aspects of 4D Abelian lattice gauge theories with the \hat{I}_1 parameter. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 15 |
| 31 | Effective gauge theories of superfluidity with topological order. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 14 |
| 32 | Fermionic functional renormalization group approach to superfluid phase transition. Progress of Theoretical and Experimental Physics, 2014, 2014, 43I01-0. | 1.8 | 13 |
| 33 | High-temperature domain walls of QCD with imaginary chemical potentials. Journal of High Energy Physics, 2019, 2019, 1. | 1.6 | 13 |
| 34 | Universality between vector-like and chiral quiver gauge theories: anomalies and domain walls. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 13 |
| 35 | Negative string tension of a higher-charge Schwinger model via digital quantum simulation. Progress of Theoretical and Experimental Physics, 2022, 2022, . | 1.8 | 10 |
| 36 | Center vortex and confinement in Yang-Mills theory and QCD with anomaly-preserving compactifications. Progress of Theoretical and Experimental Physics, 2022, 2022, . | 1.8 | 10 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Lattice gauge theory for the Haldane conjecture and central-branch Wilson fermion. Progress of Theoretical and Experimental Physics, 2020, 2020, . | 1.8 | 9 |
| 38 | Deconfinement and C breaking at $\hat{\mu}$ in Yang-Mills theories and a novel phase for SU(2). Physical Review D, 2020, 102, . | 1.6 | 8 |
| 39 | Finite-density massless two-color QCD at the isospin Roberge-Weiss point and the 't Hooft anomaly. Physical Review Research, 2020, 2, . | 1.3 | 7 |
| 40 | Topological terms of (2+1)d flag-manifold sigma models. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 5 |
| 41 | Flow equation of functional renormalization group for three-body scattering problems. Progress of Theoretical and Experimental Physics, 2013, 2013, 113A01-113A01. | 1.8 | 4 |
| 42 | Fermionic functional renormalization group approach to Bose-Einstein condensation of dimers. Progress of Theoretical and Experimental Physics, 2014, 2014, 23A04-0. | 1.8 | 3 |
| 43 | Functional renormalization group approach to conventional theory of superfluidity and beyond. Journal of Physics: Conference Series, 2014, 529, 012027. | 0.3 | 1 |
| 44 | Exploring the $\hat{\mu}$ -vacuum structure in the functional renormalization group approach. Journal of High Energy Physics, 2022, 2022, 1. | 1.6 | 1 |
| 45 | Sigma-model analysis of SU(3) antiferromagnetic spins on the triangular lattice. Physical Review B, 2021, 104, . | 1.1 | 1 |
| 46 | Phase structure of SU(3) gauge-Higgs unification models at finite temperature. Physical Review D, 2014, 89, . | 1.6 | 0 |
| 47 | Multi-regulator functional renormalization group for many-fermion systems. International Journal of Modern Physics E, 2017, 26, 1740027. | 0.4 | 0 |
| 48 | Lefschetz-thimble path integral for solving the mean-field sign problem. , 2016, , . | | 0 |
| 49 | Lefschetz-thimble approach to the Silver Blaze problem of one-site fermion model. , 2017, , . | | 0 |