

# Masanori Hanada

## List of Publications by Year in descending order

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Version: 2024-02-01

87  
papers

2,360  
citations

236925

25  
h-index

223800

46  
g-index

90  
all docs

90  
docs citations

90  
times ranked

848  
citing authors

#	ARTICLE	IF	CITATIONS
1	Black holes and random matrices. Journal of High Energy Physics, 2017, 2017, 1.	4.7	332
2	Monte Carlo Studies of Supersymmetric Matrix Quantum Mechanics with Sixteen Supercharges at Finite Temperature. Physical Review Letters, 2008, 100, 021601.	7.8	153
3	Onset of random matrix behavior in scrambling systems. Journal of High Energy Physics, 2018, 2018, 1.	4.7	113
4	Creating and probing the Sachdev–Ye–Kitaev model with ultracold gases: Towards experimental studies of quantum gravity. Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	102
5	Higher Derivative Corrections to Black Hole Thermodynamics from Supersymmetric Matrix Quantum Mechanics. Physical Review Letters, 2009, 102, 191602.	7.8	92
6	Nonlattice Simulation for Supersymmetric Gauge Theories in One Dimension. Physical Review Letters, 2007, 99, 161602.	7.8	85
7	Numerical studies of the ABJM theory for arbitrary N at arbitrary coupling constant. Journal of High Energy Physics, 2012, 2012, 1.	4.7	78
8	Holographic description of a quantum black hole on a computer. Science, 2014, 344, 882-885.	12.6	76
9	Schwarzschild Radius from Monte Carlo Calculation of the Wilson Loop in Supersymmetric Matrix Quantum Mechanics. Physical Review Letters, 2009, 102, 181602.	7.8	64
10	Chaos in classical D0-brane mechanics. Journal of High Energy Physics, 2016, 2016, 1.	4.7	61
11	Precision lattice test of the gauge/gravity duality at large $N$ . Physical Review D, 2016, 94, .	4.7	51
12	Universality of Phases in QCD and QCD-like Theories. Journal of High Energy Physics, 2012, 2012, 1.	4.7	50
13	Loops versus Matrices. Progress of Theoretical Physics, 2004, 112, 131-181.	2.0	48
14	Monte Carlo Studies of Matrix Theory Correlation Functions. Physical Review Letters, 2010, 104, 151601.	7.8	44
15	Phase structure of twisted Eguchi-Kawai model. Journal of High Energy Physics, 2008, 2008, 025-025.	4.7	43
16	Multi-matrix models and emergent geometry. Journal of High Energy Physics, 2009, 2009, 010-010.	4.7	43
17	Orbifold Equivalence and the Sign Problem at Finite Baryon Density. Physical Review Letters, 2011, 106, 091603.	7.8	40
18	Direct test of the gauge-gravity correspondence for Matrix theory correlation functions. Journal of High Energy Physics, 2011, 2011, 1.	4.7	36

#	ARTICLE	IF	CITATIONS
19	Quantum Lyapunov spectrum. Journal of High Energy Physics, 2019, 2019, 1.	4.7	34
20	A proposal of the gauge theory description of the small Schwarzschild black hole in AdS <sub>5</sub> – S <sup>5</sup> . Journal of High Energy Physics, 2017, 2017, 1.	4.7	32
21	Anatomy of deconfinement. Journal of High Energy Physics, 2019, 2019, 1.	4.7	31
22	Lattice study of two-dimensional $N=(2,2)$ super Yang-Mills theory at large $N$ . Physical Review D, 2009, 80, .	4.7	30
23	A proposal of a fine tuning free formulation of 4d $\mathcal{N} = 4$ super Yang-Mills. Journal of High Energy Physics, 2010, 2010, 1.	4.7	30
24	Absence of sign problem in two-dimensional $\mathcal{N} = \text{left}(\{2,2\} \text{ right})$ super Yang-Mills on lattice. Journal of High Energy Physics, 2011, 2011, 1.	4.7	29
25	On the shape of a D-brane bound state and its topology change. Journal of High Energy Physics, 2009, 2009, 121-121.	4.7	24
26	Large- $N$ reduction in QCD-like theories with massive adjoint fermions. Physical Review D, 2010, 82, .	4.7	24
27	Gauged and ungauged: a nonperturbative test. Journal of High Energy Physics, 2018, 2018, 1.	4.7	24
28	Non-perturbative construction of 2D and 4D supersymmetric Yang-Mills theories with 8 supercharges. Nuclear Physics B, 2012, 857, 335-361.	2.5	21
29	Field equations of massless fields in the new interpretation of the matrix model. Nuclear Physics B, 2007, 767, 82-99.	2.5	19
30	Large- $N$ reduced models of supersymmetric quiver, Chern-Simons gauge theories and ABJM. Journal of High Energy Physics, 2009, 2009, 087-087.	4.7	19
31	Quantum black hole formation in the BFSS matrix model. Journal of High Energy Physics, 2015, 2015, 1.	4.7	19
32	Universality in chaos: Lyapunov spectrum and random matrix theory. Physical Review E, 2018, 97, 022224.	2.1	19
33	Toward holographic reconstruction of bulk geometry from lattice simulations. Journal of High Energy Physics, 2018, 2018, 1.	4.7	19
34	Quantum simulation of gauge theory via orbifold lattice. Journal of High Energy Physics, 2021, 2021, 1.	4.7	19
35	Partial Deconfinement. Journal of High Energy Physics, 2019, 2019, 1.	4.7	18
36	Thermal phase transition in Yang-Mills matrix model. Journal of High Energy Physics, 2020, 2020, 1.	4.7	18

#	ARTICLE	IF	CITATIONS
37	Toward simulating superstring/M-theory on a quantum computer. Journal of High Energy Physics, 2021, 2021, 1.	4.7	18
38	Matrix-Model Simulations Using Quantum Computing, Deep Learning, and Lattice Monte Carlo. PRX Quantum, 2022, 3, .	9.2	17
39	Cascade of Gregory-Laflamme transitions and U(1) breakdown in super Yang-Mills. Journal of High Energy Physics, 2007, 2007, 012-012.	4.7	16
40	Chaos in matrix models and black hole evaporation. Physical Review D, 2016, 94, .	4.7	16
41	Numerical tests of the gauge/gravity duality conjecture for D0-branes at finite temperature and finite $N$ . Physical Review D, 2016, 94, .	4.7	16
42	Partial deconfinement at strong coupling on the lattice. Journal of High Energy Physics, 2021, 2021, 1.	4.7	15
43	Entanglement and confinement in coupled quantum systems. Journal of High Energy Physics, 2021, 2021, 1.	4.7	14
44	On matrix model formulations of noncommutative Yang-Mills theories. Physical Review D, 2008, 78, .	4.7	13
45	A microscopic description of black hole evaporation via holography. International Journal of Modern Physics D, 2016, 25, 1644002.	2.1	13
46	Partial-symmetry-breaking phase transitions. Physical Review D, 2020, 102, .	4.7	13
47	From the Planar Limit to M Theory. Physical Review Letters, 2013, 110, 121601.	7.8	12
48	What lattice theorists can do for superstring/M-theory. International Journal of Modern Physics A, 2016, 31, 1643006.	1.5	12
49	Fuzzy torus in matrix model. Nuclear Physics B, 2005, 727, 196-217.	2.5	11
50	Sign problem and phase quenching in finite-density QCD: Models, holography, and lattice. Physical Review D, 2012, 86, .	4.7	11
51	Bulk geometry in gauge/gravity duality and color degrees of freedom. Physical Review D, 2021, 103, .	4.7	11
52	Deconfinement transition as black hole formation by the condensation of QCD strings. Physical Review D, 2014, 90, .	4.7	10
53	Curved Superspaces and Local Supersymmetry in Supermatrix Model. Progress of Theoretical Physics, 2006, 115, 1003-1025.	2.0	9
54	Real-time dynamics of matrix quantum mechanics beyond the classical approximation. EPJ Web of Conferences, 2018, 175, 08006.	0.3	9

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55	Confinement/deconfinement transition in the D0-brane matrix model “A signature of M-theory?”. Journal of High Energy Physics, 2022, 2022, .	4.7	9
56	A new look at instantons and large-N limit. Journal of High Energy Physics, 2014, 2014, 1.	4.7	8
57	Color confinement and Bose-Einstein condensation. Journal of High Energy Physics, 2021, 2021, 1.	4.7	8
58	Nonperturbative studies of supersymmetric matrix quantum mechanics with 4 and 8 supercharges at finite temperature. Journal of High Energy Physics, 2011, 2011, 1.	4.7	7
59	On a new type of orbifold equivalence and M-theoretic $\langle \text{tr} \mathcal{L} \rangle$ <small>xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="ht</small> Physics Letters, Section	4.1	7
60	On the continuity of the commutative limit of the 4dN=4non-commutative super Yang-Mills theory. Nuclear Physics B, 2015, 892, 449-474.	2.5	7
61	Four-dimensionalN=1super Yang-Mills theory from a matrix model. Physical Review D, 2009, 80, .	4.7	6
62	Generating new dualities through the orbifold equivalence: a demonstration in ABJM and four-dimensional quivers. Journal of High Energy Physics, 2012, 2012, 1.	4.7	6
63	Worldsheet analysis of gauge/gravity dualities. Nuclear Physics B, 2009, 816, 278-292.	2.5	5
64	Holographic realization of large-N c orbifold equivalence with non-zero chemical potential. Journal of High Energy Physics, 2012, 2012, 1.	4.7	5
65	Instanton dynamics in finite temperature QCD via holography. Nuclear Physics B, 2015, 899, 631-650.	2.5	5
66	O(a) improvement of 2D N=(2,2) lattice SYM theory. Nuclear Physics B, 2018, 929, 266-297.	2.5	5
67	Phase Structure of the Large-N Reduced Gauge Theory and the Generalized Weingarten Model. Progress of Theoretical Physics, 2006, 115, 1167-1177.	2.0	4
68	Lattice simulations of 10d Yang-Mills toroidally compactified to 1d, 2d, and 4d. Physical Review D, 2017, 96, .	4.7	4
69	Real time quantum gravity dynamics from classical statistical Yang-Mills simulations. Journal of High Energy Physics, 2019, 2019, 1.	4.7	4
70	Characterization of quantum chaos by two-point correlation functions. Physical Review E, 2020, 102, 022213.	2.1	3
71	Global symmetries and partial confinement. Journal of High Energy Physics, 2022, 2022, 1.	4.7	3
72	New large-N limit and the planar equivalence outside the planar limit. Physical Review D, 2012, 86, .	4.7	2

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73	Does Yang-Mills theory describe quantum gravity?. Fortschritte Der Physik, 2014, 62, 786-791.	4.4	2
74	Universality of phase diagrams in QCD and QCD-like theories. , 2012, , .		2
75	CASCADE OF GREGORY-LAFLAMME TRANSITIONS AND U(1) BREAKDOWN IN SUPER YANG-MILLS. International Journal of Modern Physics A, 2008, 23, 2272-2274.	1.5	1
76	NUMERICAL STUDIES OF THE ABJM THEORY FOR ARBITRARY N AT ARBITRARY COUPLING CONSTANT. International Journal of Modern Physics Conference Series, 2013, 21, 203-205.	0.7	1
77	LARGE-NC UNIVERSALITY IN QCD AND QCD-LIKE THEORIES. International Journal of Modern Physics Conference Series, 2013, 21, 140-142.	0.7	1
78	Taming the pion condensation in QCD at finite baryon density: a numerical test in a random matrix model. Journal of High Energy Physics, 2015, 2015, 1.	4.7	1
79	Large $N_c$ volume reduction and chiral random matrix theory. , 2012, , .		1
80	Large- $N_c$ gauge theory and chiral random matrix theory. Physical Review D, 2013, 88, .	4.7	0
81	String inspired solution to the sign problem and overlapping problem. Journal of Physics: Conference Series, 2013, 432, 012008.	0.4	0
82	Monte Carlo studies of 3d N=6 superconformal Chern-Simons gauge theory via localization method. , 2012, , .		0
83	Phase quenching in finite-density QCD: models, holography, and lattice. , 2012, , .		0
84	Relationship between QCD and QCD-Like Theories at Finite Density. , 2013, , .		0
85	Large- $N_c$ Gauge Theory and Chiral Random Matrix Theory. , 2014, , .		0
86	Deconfinement transition as a black hole formation by the condensation of QCD string. , 2015, , .		0
87	Partial deconfinement in gauge theories. , 2020, , .		0