

Jun Nishimura

List of Publications by Year in descending order

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85
papers

2,553
citations

186209

28
h-index

197736

49
g-index

85
all docs

85
docs citations

85
times ranked

402
citing authors

#	ARTICLE	IF	CITATIONS
1	Monte Carlo Studies of Supersymmetric Matrix Quantum Mechanics with Sixteen Supercharges at Finite Temperature. <i>Physical Review Letters</i> , 2008, 100, 021601.	2.9	153
2	Lattice gauge fields and discrete noncommutative Yang-Mills theory. <i>Journal of High Energy Physics</i> , 2000, 2000, 023-023.	1.6	149
3	Finite N matrix models of noncommutative gauge theory. <i>Journal of High Energy Physics</i> , 1999, 1999, 029-029.	1.6	133
4	Expanding $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 642 Td (display="in Universe from a Lorentzian Matrix Model for Superstring Theory in $\langle \text{mml:math} \rangle$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (xmlns:mr	2.9	108
5	Dimensions. <i>Physical Review Letters</i> , 2012, 108, 011601. Dynamical aspects of large-N reduced models. <i>Nuclear Physics B</i> , 1999, 545, 543-575.	0.9	104
6	Higher Derivative Corrections to Black Hole Thermodynamics from Supersymmetric Matrix Quantum Mechanics. <i>Physical Review Letters</i> , 2009, 102, 191602.	2.9	92
7	Dynamical Generation of Four-Dimensional Space-Time in the IIB Matrix Model. <i>Journal of High Energy Physics</i> , 2002, 2002, 001-001.	1.6	87
8	Nonlattice Simulation for Supersymmetric Gauge Theories in One Dimension. <i>Physical Review Letters</i> , 2007, 99, 161602.	2.9	85
9	Large N dynamics of dimensionally reduced 4D SU(N) super Yang-Mills theory. <i>Journal of High Energy Physics</i> , 2000, 2000, 013-013.	1.6	83
10	Numerical studies of the ABJM theory for arbitrary N at arbitrary coupling constant. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	78
11	Holographic description of a quantum black hole on a computer. <i>Science</i> , 2014, 344, 882-885.	6.0	76
12	Spontaneous breakdown of Lorentz invariance in IIB matrix model. <i>Journal of High Energy Physics</i> , 2000, 2000, 015-015.	1.6	72
13	Monte Carlo studies of the IIB matrix model at large N. <i>Journal of High Energy Physics</i> , 2000, 2000, 011-011.	1.6	72
14	The factorization method for systems with a complex action. A test in Random Matrix Theory for finite density QCD. <i>Journal of High Energy Physics</i> , 2002, 2002, 062-062.	1.6	70
15	Schwarzschild Radius from Monte Carlo Calculation of the Wilson Loop in Supersymmetric Matrix Quantum Mechanics. <i>Physical Review Letters</i> , 2009, 102, 181602.	2.9	64
16	Argument for justification of the complex Langevin method and the condition for correct convergence. <i>Physical Review D</i> , 2016, 94, .	1.6	59
17	Phase structure of matrix quantum mechanics at finite temperature. <i>Journal of High Energy Physics</i> , 2007, 2007, 097-097.	1.6	56
18	New insights into the problem with a singular drift term in the complex Langevin method. <i>Physical Review D</i> , 2015, 92, .	1.6	54

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19	Brane World Generated Dynamically from String Type IIB Matrices. Physical Review Letters, 2000, 85, 4664-4667.	2.9	49
20	Deconfinement Phase Transition in $N=4$ Super Yang-Mills Theory on $R^4 \times S^3$ from Supersymmetric Matrix Quantum Mechanics. Physical Review Letters, 2009, 102, 111601.	2.9	46
21	Monte Carlo Studies of Matrix Theory Correlation Functions. Physical Review Letters, 2010, 104, 151601.	2.9	44
22	High temperature expansion in supersymmetric matrix quantum mechanics. Journal of High Energy Physics, 2007, 2007, 103-103.	1.6	41
23	Late time behaviors of the expanding universe in the IIB matrix model. Journal of High Energy Physics, 2012, 2012, 1.	1.6	39
24	Testing a novel large- N reduction for $\mathfrak{su}(4)$ super Yang-Mills theory on $R^4 \times S^3$. Journal of High Energy Physics, 2009, 2009, 029-029.	1.6	37
25	Direct test of the gauge-gravity correspondence for Matrix theory correlation functions. Journal of High Energy Physics, 2011, 2011, 1.	1.6	36
26	Complex Langevin analysis of the space-time structure in the Lorentzian type IIB matrix model. Journal of High Energy Physics, 2019, 2019, 1.	1.6	34
27	Exactly solvable matrix models with spontaneous breakdown of $SO(D)$ symmetry. Physical Review D, 2002, 65, .	1.6	32
28	Expanding universe as a classical solution in the Lorentzian matrix model for nonperturbative superstring theory. Physical Review D, 2012, 86, .	1.6	30
29	Gauge cooling for the singular-drift problem in the complex Langevin method – a test in Random Matrix Theory for finite density QCD. Journal of High Energy Physics, 2016, 2016, 1.	1.6	28
30	The complex Langevin analysis of spontaneous symmetry breaking induced by complex fermion determinant. Journal of High Energy Physics, 2016, 2016, 1.	1.6	26
31	Justification of the complex Langevin method with the gauge cooling procedure. Progress of Theoretical and Experimental Physics, 2016, 2016, 013B01.	1.8	26
32	Systematic study of the $SO(10)$ symmetry breaking vacua in the matrix model for type IIB superstrings. Journal of High Energy Physics, 2011, 2011, 1.	1.6	25
33	Combining the complex Langevin method and the generalized Lefschetz-thimble method. Journal of High Energy Physics, 2017, 2017, 1.	1.6	22
34	Impact of supersymmetry on the nonperturbative dynamics of fuzzy spheres. Journal of High Energy Physics, 2005, 2005, 046-046.	1.6	21
35	Convergence of the Gaussian Expansion Method in Dimensionally Reduced Yang-Mills Integrals. Journal of High Energy Physics, 2002, 2002, 043-043.	1.6	20
36	Dynamical aspects of the plane-wave matrix model at finite temperature. Journal of High Energy Physics, 2006, 2006, 052-052.	1.6	19

#	ARTICLE	IF	CITATIONS
37	Exact fuzzy sphere thermodynamics in matrix quantum mechanics. Journal of High Energy Physics, 2007, 2007, 091-091.	1.6	19
38	Direct test of the AdS/CFT correspondence by Monte Carlo studies of $\mathcal{N}=4$ super Yang-Mills theory. Journal of High Energy Physics, 2013, 2013, 1.	1.6	19
39	Complex Langevin analysis of the spontaneous symmetry breaking in dimensionally reduced super Yang-Mills models. Journal of High Energy Physics, 2018, 2018, 1.	1.6	18
40	Spontaneous Breaking of the Rotational Symmetry in Dimensionally Reduced Super Yang-Mills Models. Progress of Theoretical Physics, 2011, 125, 537-563.	2.0	17
41	The origin of space-time as seen from matrix model simulations. Progress of Theoretical and Experimental Physics, 2012, 2012, .	1.8	17
42	Testing the criterion for correct convergence in the complex Langevin method. Journal of High Energy Physics, 2018, 2018, 1.	1.6	17
43	Complex Langevin calculations in QCD at finite density. Journal of High Energy Physics, 2020, 2020, 1.	1.6	17
44	Numerical tests of the gauge/gravity duality conjecture for D0-branes at finite temperature and finite N . Physical Review D, 2016, 94, .	1.6	16
45	Ginsparg-Wilson fermions in odd dimensions. Journal of High Energy Physics, 2001, 2001, 015-015.	1.6	15
46	Testing the gaussian expansion method in exactly solvable matrix models. Journal of High Energy Physics, 2003, 2003, 057-057.	1.6	15
47	Power-law expansion of the Universe from the bosonic Lorentzian type IIB matrix model. Journal of High Energy Physics, 2015, 2015, 1.	1.6	15
48	Realizing three generations of the Standard Model fermions in the type IIB matrix model. Journal of High Energy Physics, 2014, 2014, 1.	1.6	14
49	Complex Langevin calculations in finite density QCD at large N with the deformation technique. Physical Review D, 2018, 98, .	1.6	14
50	Realizing chiral fermions in the type IIB matrix model at finite N . Journal of High Energy Physics, 2013, 2013, 1.	1.6	13
51	Monte Carlo studies of the spontaneous rotational symmetry breaking in dimensionally reduced super Yang-Mills models. Journal of High Energy Physics, 2013, 2013, 1.	1.6	13
52	A practical solution to the sign problem in a matrix model for dynamical compactification. Journal of High Energy Physics, 2011, 2011, 1.	1.6	12
53	Complex Langevin analysis of the spontaneous breaking of 10D rotational symmetry in the Euclidean IKKT matrix model. Journal of High Energy Physics, 2020, 2020, 1.	1.6	11
54	Finite-matrix formulation of gauge theories on a non-commutative torus with twisted boundary conditions. Journal of High Energy Physics, 2009, 2009, 055-055.	1.6	10

#	ARTICLE	IF	CITATIONS
55	On the structure of the emergent 3D expanding space in the Lorentzian type IIB matrix model. Progress of Theoretical and Experimental Physics, 2019, 2019, .	1.8	10
56	Complex Langevin analysis of 2D U(1) gauge theory on a torus with a \hat{I} term. Journal of High Energy Physics, 2020, 2020, 1.	1.6	10
57	The emergence of expanding space-time and intersecting D-branes from classical solutions in the Lorentzian type IIB matrix model. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	9
58	Tensor renormalization group and the volume independence in 2D U(N) and SU(N) gauge theories. Journal of High Energy Physics, 2021, 2021, 1.	1.6	9
59	The large-N-reduction in matrix quantum mechanics - a bridge between BFSS and IKKT -. Journal of High Energy Physics, 2005, 2005, 040-040.	1.6	8
60	General approach to the sign problem: Factorization method with multiple observables. Physical Review D, 2011, 83, .	1.6	8
61	Backpropagating Hybrid Monte Carlo algorithm for fast Lefschetz thimble calculations. Journal of High Energy Physics, 2022, 2022, 1.	1.6	8
62	Monte Carlo approach to nonperturbative strings - demonstration in noncritical string theory. Journal of High Energy Physics, 2007, 2007, 076-076.	1.6	7
63	Nonperturbative studies of supersymmetric matrix quantum mechanics with 4 and 8 supercharges at finite temperature. Journal of High Energy Physics, 2011, 2011, 1.	1.6	7
64	Universality and the dynamical space-time dimensionality in the Lorentzian type IIB matrix model. Journal of High Energy Physics, 2017, 2017, 1.	1.6	6
65	Complex Langevin simulation of QCD at finite density and low temperature using the deformation technique. EPJ Web of Conferences, 2018, 175, 07017.	0.1	4
66	Complex Langevin studies of the emergent space-time in the type IIB matrix model. , 2022, , .		4
67	Unification of the complex Langevin method and the Lefschetzthimble method. EPJ Web of Conferences, 2018, 175, 07018.	0.1	3
68	A DIRECT TEST OF THE GAUGE/GRAVITY DUALITY AND THE STRING THEORETICAL DESCRIPTION OF A BLACK HOLE. International Journal of Modern Physics A, 2008, 23, 2161-2164.	0.5	2
69	A new method for probing the late-time dynamics in the Lorentzian type IIB matrix model. Progress of Theoretical and Experimental Physics, 2017, 2017, .	1.8	2
70	Exploring the phase diagram of finite density QCD at low temperature by the complex Langevin method. , 2019, , .		2
71	Exploring the QCD phase diagram at finite density by the complex Langevin method on a $16^3 \times 32$ lattice. , 2020, , .		2
72	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

#	ARTICLE	IF	CITATIONS
73	CLASSICAL SOLUTIONS IN THE LORENTZIAN MATRIX MODEL FOR SUPERSTRING THEORY. International Journal of Modern Physics Conference Series, 2013, 21, 197-199.	0.7	1
74	Comparative studies of the deformation techniques for the singular-drift problem in the complex Langevin method. EPJ Web of Conferences, 2018, 175, 07019.	0.1	1
75	Monte Carlo simulations of a supersymmetric matrix model of dynamical compactification in non perturbative string theory. , 2012, , .		1
76	Monte Carlo studies on the expanding behavior of the early universe in the Lorentzian type IIB matrix model. , 2014, , .		1
77	Testing a generalized cooling procedure in the complex Langevin simulation of chiral Random Matrix Theory. , 2016, , .		1
78	Large-scale computation of the exponentially expanding universe in a simplified Lorentzian IIB matrix model. , 2016, , .		1
79	Spontaneous symmetry breaking induced by complex fermion determinant -- yet another success of the complex Langevin method. , 2017, , .		1
80	Gauge cooling for the singular-drift problem in the complex Langevin method - an application to finite density QCD. , 2017, , .		1
81	Can the complex Langevin method see the deconfinement phase transition in QCD at finite density?. , 2019, , .		1
82	Understanding the Mechanism for the Spontaneous Breakdown of Rotational Symmetry in the IIB Matrix Model. Progress of Theoretical Physics Supplement, 2006, 164, 148-159.	0.2	0
83	(3+1)-DIMENSIONAL EXPANDING UNIVERSE FROM A LORENTZIAN MATRIX MODEL FOR SUPERSTRING THEORY IN (9+1)-DIMENSIONS. International Journal of Modern Physics A, 2013, 28, 1340002.	0.5	0
84	On the condition for correct convergence in the complex Langevin method. , 2017, , .		0
85	Exploring the Finite Density QCD Based on the Complex Langevin Method. , 2019, , .		0