

Satoshi Iso

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

3,455
citations

147801

31
h-index

138484

58
g-index

91
all docs

91
docs citations

91
times ranked

1402
citing authors

#	ARTICLE	IF	CITATIONS
1	Classically conformal $\mathcal{N}=4$ extended Standard Model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 676, 81-87.	4.1	245
2	Non-commutative Yang-Mills in IIB matrix model. Nuclear Physics B, 2000, 565, 176-192.	2.5	233
3	Anomalies, Hawking radiations, and regularity in rotating black holes. Physical Review D, 2006, 74, .	4.7	216
4	Hawking Radiation from Charged Black Holes via Gauge and Gravitational Anomalies. Physical Review Letters, 2006, 96, 151302.	7.8	214
5	Wilson loops in non-commutative Yang-Mills. Nuclear Physics B, 2000, 573, 573-593.	2.5	170
6	Noncommutative gauge theory on fuzzy sphere from matrix model. Nuclear Physics B, 2001, 604, 121-147.	2.5	170
7	Minimal $\mathcal{N}=2$ supersymmetric Yang-Mills theory naturally realized at the TeV scale. Physical Review D, 2009, 80, .	4.7	147
8	Tuning phase transition between quantum spin Hall and ordinary insulating phases. Physical Review B, 2007, 76, .	3.2	133
9	Fermions in the lowest Landau level. Bosonization, W -algebra, droplets, chiral bosons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 296, 143-150.	4.1	125
10	IIB Matrix Model. Progress of Theoretical Physics Supplement, 1999, 134, 47-83.	0.1	100
11	QCD-Electroweak First-Order Phase Transition in a Supercooled Universe. Physical Review Letters, 2017, 119, 141301.	7.8	98
12	Explicit relation of the quantum Hall effect and the Calogero-Sutherland model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 331, 107-113.	4.1	89
13	One-dimensional fermions as two-dimensional droplets via Chern-Simons theory. Nuclear Physics B, 1992, 388, 700-714.	2.5	68
14	Quantum anomalies at horizon and Hawking radiations in Myers-Perry black holes. Journal of High Energy Physics, 2007, 2007, 068-068.	4.7	67
15	Revisiting the naturalness problem: Who is afraid of quadratic divergences?. Physical Review D, 2012, 86, .	4.7	55
16	Janus field theories from multiple M2 branes. Physical Review D, 2008, 78, .	4.7	49
17	Scale-invariant feature extraction of neural network and renormalization group flow. Physical Review E, 2018, 97, 053304.	2.1	48
18	Ginsparg-Wilson relation, topological invariants, and finite noncommutative geometry. Physical Review D, 2003, 67, .	4.7	46

#	ARTICLE	IF	CITATIONS
19	Canonical formulation of quantum tunneling with dissipation. Physical Review Letters, 1992, 68, 1093-1096.	7.8	45
20	Higher-spin currents and thermal flux from Hawking radiation. Physical Review D, 2007, 75, .	4.7	45
21	Bi-local fields in noncommutative field theory. Nuclear Physics B, 2000, 576, 375-398.	2.5	44
22	Resonant leptogenesis in the minimal $B-L$ extended standard model at TeV. Physical Review D, 2011, 83, .	4.7	42
23	TeV-scale $B-L$ model with a flat Higgs potential at the Planck scale: In view of the hierarchy problem. Progress of Theoretical and Experimental Physics, 2013, 2013, .	6.6	42
24	Scaling limit of $N=6$ superconformal Chern-Simons theories and Lorentzian Bagger-Lambert theories. Physical Review D, 2008, 78, .	4.7	38
25	Fluxes of higher-spin currents and Hawking radiation from charged black holes. Physical Review D, 2007, 76, .	4.7	37
26	Radiative symmetry breaking at the Fermi scale and flat potential at the Planck scale. Physical Review D, 2014, 89, .	4.7	37
27	String scale in noncommutative Yang-Mills. Nuclear Physics B, 2000, 583, 159-181.	2.5	36
28	Ginsparg-Wilson relation and 't Hooft-Polyakov monopole on fuzzy 2-sphere. Nuclear Physics B, 2004, 684, 162-182.	2.5	36
29	Entanglement of the vacuum between left, right, future, and past: The origin of entanglement-induced quantum radiation. Physical Review D, 2017, 96, .	4.7	34
30	Noncommutative superspace, supermatrix and lowest Landau level. Nuclear Physics B, 2003, 671, 217-242.	2.5	32
31	Baryon asymmetry from primordial black holes. Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	32
32	Supermatrix models. Nuclear Physics B, 2001, 610, 251-279.	2.5	31
33	Hawking radiation via higher-spin gauge anomalies. Physical Review D, 2008, 77, .	4.7	31
34	The spin factor in knots and a relativistic treatment of the Bose-Fermi transmutation in second-quantized theories. Nuclear Physics B, 1990, 346, 293-312.	2.5	29
35	Dynamical generation of a nontrivial index on the fuzzy 2-sphere. Physical Review D, 2005, 71, .	4.7	29
36	Chiral anomaly on a fuzzy 2-sphere. Physical Review D, 2003, 67, .	4.7	27

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37	<p> $U = \int d^2x \sqrt{-g} \left[\frac{1}{2} \text{tr} \left(\partial_\mu \phi \partial^\mu \phi \right) - \frac{1}{4} \text{tr} \left(F_{\mu\nu} F^{\mu\nu} \right) - \frac{1}{2} \text{tr} \left(\partial_\mu \phi \partial^\mu \phi \right) - \frac{1}{4} \text{tr} \left(F_{\mu\nu} F^{\mu\nu} \right) - \frac{1}{2} \text{tr} \left(\partial_\mu \phi \partial^\mu \phi \right) - \frac{1}{4} \text{tr} \left(F_{\mu\nu} F^{\mu\nu} \right) \right]$ </p> <p>Physical Review D, 2014, 89, .</p>	4.7	27
38	Anyon basis of $c = 1$ conformal field theory. Nuclear Physics B, 1995, 443, 581-595.	2.5	26
39	Small field Coleman-Weinberg inflation driven by a fermion condensate. Physical Review D, 2015, 91, .	4.7	25
40	Higher-spin gauge and trace anomalies in two-dimensional backgrounds. Nuclear Physics B, 2008, 799, 60-79.	2.5	24
41	Quantum tunneling with dissipation: Possible enhancement by dissipative interactions. Physical Review B, 1992, 46, 10295-10309.	3.2	23
42	SPACE-TIME AND MATTER IN THE IIB MATRIX MODEL GAUGE SYMMETRY AND DIFFEOMORPHISM. International Journal of Modern Physics A, 2000, 15, 651-666.	1.5	23
43	Gauge theory on a noncommutative supersphere from a supermatrix model. Physical Review D, 2004, 69, .	4.7	23
44	Ginsparg-Wilson Dirac operator in monopole backgrounds on the fuzzy 2-sphere. Physical Review D, 2007, 75, .	4.7	22
45	Kadanoff-Baym approach to the thermal resonant leptogenesis. Journal of High Energy Physics, 2014, 2014, 1.	4.7	22
46	Orbifold matrix model. Nuclear Physics B, 2002, 634, 71-89.	2.5	21
47	Geometric description for spinning particles in three dimensions and Chern-Simons-Polyakov theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 236, 287-290.	4.1	19
48	Collective field theory of the fractional quantum Hall edge state and the Calogero-Sutherland model. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 352, 111-116.	4.1	19
49	HAWKING RADIATION, GRAVITATIONAL ANOMALY, AND CONFORMAL SYMMETRY THE ORIGIN OF UNIVERSALITY. International Journal of Modern Physics A, 2008, 23, 2082-2090.	1.5	17
50	Coherent flavour oscillation and CP violating parameter in thermal resonant leptogenesis. Journal of High Energy Physics, 2014, 2014, 1.	4.7	17
51	Evolution of vacuum fluctuations generated during and before inflation. Physical Review D, 2014, 89, .	4.7	16
52	Stochastic analysis of an accelerated charged particle: Transverse fluctuations. Physical Review D, 2011, 84, .	4.7	15
53	Reinterpretation of the Starobinsky model. Progress of Theoretical and Experimental Physics, 2016, 2016, 123E01.	6.6	15
54	Hamiltonian Formulation of the Schwinger Model. Progress of Theoretical Physics, 1990, 84, 142-163.	2.0	12

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55	Note on gauge theory on a fuzzy supersphere. <i>Physical Review D</i> , 2004, 69, .	4.7	10
56	Wilson loops and vertex operators in a matrix model. <i>Physical Review D</i> , 2004, 70, .	4.7	10
57	Stochastic equations in black hole backgrounds and non-equilibrium fluctuation theorems. <i>Nuclear Physics B</i> , 2011, 851, 380-419.	2.5	10
58	Generalized conformal symmetry and recovery of in multiple M2 and D2 branes. <i>Nuclear Physics B</i> , 2009, 816, 256-277.	2.5	9
59	Evolution of vacuum fluctuations of an ultra-light massive scalar field generated during and before inflation. <i>Progress of Theoretical and Experimental Physics</i> , 2015, 2015, 113E02-113E02.	6.6	9
60	Entanglement entropy in scalar field theory and $\langle Z \rangle$ gauge theory on Feynman diagrams. <i>Physical Review D</i> , 2021, 103, .	4.7	8
61	Non-Gaussianity of entanglement entropy and correlations of composite operators. <i>Physical Review D</i> , 2021, 103, .	4.7	8
62	Wilsonian Effective Action and Entanglement Entropy. <i>Symmetry</i> , 2021, 13, 1221.	2.2	8
63	Index theorem in spontaneously symmetry-broken gauge theories on a fuzzy 2-sphere. <i>Physical Review D</i> , 2008, 78, .	4.7	7
64	Quantum radiation produced by the entanglement of quantum fields. <i>Physical Review D</i> , 2017, 95, .	4.7	7
65	LONG DISTANCE UNIVERSALITY OF LAUGHLIN STATE AND CALOGERO-SUTHERLAND MODEL. <i>Modern Physics Letters A</i> , 1994, 09, 2123-2137.	1.2	6
66	Entanglement-induced quantum radiation. <i>Physical Review D</i> , 2017, 96, .	4.7	6
67	RG-improvement of the effective action with multiple mass scales. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	6
68	Fermionic backgrounds and condensation of supergravity fields in the type IIB matrix model. <i>Physical Review D</i> , 2005, 72, .	4.7	5
69	Construction of a topological charge on fuzzy $S^2 \times S^2$ via a Ginsparg-Wilson relation. <i>Physical Review D</i> , 2009, 80, .	4.7	5
70	Non-equilibrium fluctuations of black hole horizons and the generalized second law. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 705, 152-156.	4.1	5
71	On the cancellation mechanism of radiation from the Unruh detector. <i>Progress of Theoretical and Experimental Physics</i> , 2013, 2013, .	6.6	5
72	Revolving D-branes and spontaneous gauge-symmetry breaking. <i>Progress of Theoretical and Experimental Physics</i> , 2015, 2015, 123B01.	6.6	5

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73	Large-scale inhomogeneity of dark energy produced in the ancestor vacuum. <i>Physical Review D</i> , 2019, 99, .	4.7	5
74	Dynamical fine-tuning of initial conditions for small field inflation. <i>Physical Review D</i> , 2016, 93, .	4.7	4
75	Secular terms in Dyson series to all orders of perturbation. <i>Progress of Theoretical and Experimental Physics</i> , 2018, 2018, .	6.6	4
76	Scaling behaviors of branched polymers. <i>Physical Review E</i> , 2000, 62, 6260-6269.	2.1	3
77	Vacuum fluctuations in an ancestor vacuum: A possible dark energy candidate. <i>Physical Review D</i> , 2018, 97, .	4.7	3
78	Effective potential for revolving D-branes. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	3
79	Axion-CMB scenario in a supercooled universe. <i>Physical Review D</i> , 2021, 104, .	4.7	3
80	Density renormalization group for classical liquids. <i>Progress of Theoretical and Experimental Physics</i> , 2019, 2019, .	6.6	2
81	QCD axions and CMB anisotropy. <i>Physical Review D</i> , 2020, 102, .	4.7	2
82	Dynamics of revolving D-branes at short distances. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	2
83	Radiation reaction by massive particles and its nonanalytic behavior. <i>Physical Review D</i> , 2012, 86, .	4.7	1
84	The Einstein equation of state as the Clausius relation with an entropy production. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 718, 193-199.	4.1	1
85	Electromagnetic radiation in a semi-compact space. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018, 382, 541-547.	2.1	1
86	Observational signatures of dark energy produced in an ancestor vacuum: forecast for galaxy surveys. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 055-055.	5.4	1
87	A possibility of Lorentz violation in the Higgs sector. <i>Modern Physics Letters A</i> , 2020, 35, 2050064.	1.2	1
88	More on effective potentials for revolving D-branes. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	1
89	Necessity of a finite-size term in the WZW model. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990, 244, 241-244.	4.1	0
90	Gauge symmetry restoration by Higgs condensation in flux compactifications on coset spaces. <i>Physical Review D</i> , 2022, 105, .	4.7	0