

# Sumit R Das

## List of Publications by Year in descending order

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71  
papers

2,514  
citations

186265

28  
h-index

197818

49  
g-index

71  
all docs

71  
docs citations

71  
times ranked

767  
citing authors

#	ARTICLE	IF	CITATIONS
1	STRING FIELD THEORY AND PHYSICAL INTERPRETATION OF D=1 STRINGS. Modern Physics Letters A, 1990, 05, 1639-1650.	1.2	262
2	Comparing decay rates for black holes and D-branes. Nuclear Physics B, 1996, 478, 561-576.	2.5	236
3	Probe branes, time-dependent couplings and thermalization in AdS/CFT. Journal of High Energy Physics, 2010, 2010, 1.	4.7	96
4	Three dimensional view of the SYK/AdS duality. Journal of High Energy Physics, 2017, 2017, 1.	4.7	93
5	Path-integral complexity for perturbed CFTs. Journal of High Energy Physics, 2018, 2018, 1.	4.7	89
6	QUANTIZATION OF THE LIOUVILLE MODE AND STRING THEORY. Modern Physics Letters A, 1989, 04, 1033-1041.	1.2	83
7	Time-dependent cosmologies and their duals. Physical Review D, 2006, 74, .	4.7	77
8	Large-Ncollective fields and holography. Physical Review D, 2003, 68, .	4.7	73
9	Quantum quench across a holographic critical point. Journal of High Energy Physics, 2012, 2012, 1.	4.7	69
10	Vibration modes of giant gravitons. Physical Review D, 2000, 63, .	4.7	68
11	Some aspects of large-Ntheories. Reviews of Modern Physics, 1987, 59, 235-261.	45.6	65
12	Universal Scaling in Fast Quantum Quenches in Conformal Field Theories. Physical Review Letters, 2014, 112, 171601.	7.8	61
13	Giant gravitons, Bogomolâ€™nyi-Prasad-Sommerfield bounds, and noncommutativity. Physical Review D, 2001, 63, .	4.7	60
14	Quantum quench across a zero temperature holographic superfluid transition. Journal of High Energy Physics, 2013, 2013, 1.	4.7	56
15	Universality in fast quantum quenches. Journal of High Energy Physics, 2015, 2015, 1.	4.7	56
16	Space-time in the SYK model. Journal of High Energy Physics, 2018, 2018, 1.	4.7	50
17	Magnetic moments of branes and giant gravitons. Journal of High Energy Physics, 2000, 2000, 037-037.	4.7	49
18	Cosmologies with null singularities and their gauge theory duals. Physical Review D, 2007, 75, .	4.7	46

#	ARTICLE	IF	CITATIONS
19	Three dimensional view of arbitrary q SYK models. Journal of High Energy Physics, 2018, 2018, 1.	4.7	42
20	GAUGE THEORY FORMULATION OF THE $c=1$ MATRIX MODEL: SYMMETRIES AND DISCRETE STATES. International Journal of Modern Physics A, 1992, 07, 5165-5191.	1.5	39
21	ppwave big bangs: Matrix strings and shrinking fuzzy spheres. Physical Review D, 2005, 72, .	4.7	39
22	The Quantum Physics of Black Holes: Results from String Theory. Annual Review of Nuclear and Particle Science, 2000, 50, 153-206.	10.2	38
23	Gauge theory duals of cosmological backgrounds and their energy momentum tensors. Physical Review D, 2008, 77, .	4.7	36
24	Gauge theories with time dependent couplings and their cosmological duals. Physical Review D, 2009, 79, .	4.7	36
25	Holographic quantum quench. Journal of Physics: Conference Series, 2012, 343, 012027.	0.4	36
26	Smooth and fast versus instantaneous quenches in quantum field theory. Journal of High Energy Physics, 2015, 2015, 1.	4.7	36
27	BOSONIZATION OF NON-RELATIVISTIC FERMIONS AND W-INFINITY ALGEBRA. Modern Physics Letters A, 1992, 07, 71-83.	1.2	32
28	Quantum quenches in free field theory: universal scaling at any rate. Journal of High Energy Physics, 2016, 2016, 1.	4.7	31
29	Particle production in matrix cosmology. Physical Review D, 2004, 70, .	4.7	28
30	Matrix membrane big bangs and D-brane production. Physical Review D, 2006, 73, .	4.7	28
31	CPN $\hat{=}$ 1 models at a Lifshitz point. Physical Review D, 2009, 80, .	4.7	28
32	Bi-local construction of Sp(2N)/dS higher spin correspondence. Journal of High Energy Physics, 2013, 2013, 1.	4.7	28
33	Quantum quench and scaling of entanglement entropy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 53-57.	4.1	26
34	MATRIX MODELS AND BLACK HOLES. Modern Physics Letters A, 1993, 08, 69-78.	1.2	24
35	Folds, bosonization and non-triviality of the classical limit of 2D string theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 365, 79-86.	4.1	24
36	Geometric entropy of nonrelativistic fermions and two-dimensional strings. Physical Review D, 1995, 51, 6901-6908.	4.7	23

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37	Quantum quench and double trace couplings. Journal of High Energy Physics, 2013, 2013, 1.	4.7	23
38	Spacelike boundaries from the $c=1$ matrix model. Physical Review D, 2005, 71, .	4.7	20
39	Kibble-Zurek scaling in holographic quantum quench: backreaction. Journal of High Energy Physics, 2015, 2015, 1.	4.7	20
40	Bulk entanglement entropy and matrices. Journal of Physics A: Mathematical and Theoretical, 2020, 53, 444002.	2.1	19
41	Topology of quantum gauge fields and duality (I): Yang-Mills-Higgs system in $2 + 1$ dimensions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1981, 106, 386-392.	4.1	18
42	An exactly solvable quench protocol for integrable spin models. Journal of High Energy Physics, 2017, 2017, 1.	4.7	18
43	Non-equilibrium dynamics of $O(N)$ nonlinear sigma models: a large- $N$ approach. Journal of High Energy Physics, 2012, 2012, 1.	4.7	17
44	Brane waves, Yang-Mills theories and causality. Journal of High Energy Physics, 1999, 1999, 012-012.	4.7	16
45	Fluctuations in a cosmology with a spacelike singularity and their gauge theory dual description. Physical Review D, 2016, 94, .	4.7	16
46	Compact $z^2$ Electrostatics in $z^2$ Dimensions: Confinement with Gapless Modes. Physical Review Letters, 2010, 104, 181601.	7.8	15
47	Slowly varying dilaton cosmologies and their field theory duals. Physical Review D, 2009, 80, .	4.7	14
48	Degrees of freedom in two dimensional string theory. Nuclear Physics, Section B, Proceedings Supplements, 1996, 45, 224-233.	0.4	13
49	Old and new scaling laws in quantum quench. Progress of Theoretical and Experimental Physics, 2016, 2016, 12C107.	6.6	13
50	Gauge invariant target space entanglement in D-brane holography. Journal of High Energy Physics, 2021, 2021, 1.	4.7	13
51	On dumb holes and their gravity duals. Journal of High Energy Physics, 2011, 2011, 1.	4.7	12
52	Double trace flows and holographic RG in dS/CFT correspondence. Journal of High Energy Physics, 2013, 2013, 1.	4.7	11
53	Quantum quench in non-relativistic fermionic field theory: harmonic traps and 2d string theory. Journal of High Energy Physics, 2019, 2019, 1.	4.7	11
54	Branes wrapping black holes. Nuclear Physics B, 2006, 733, 297-333.	2.5	9

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55	Quark confinement and dual representation in (2+1)-dimensional pure Yang-Mills theory. Physical Review D, 1996, 53, 5856-5865.	4.7	8
56	Holograms of branes in the bulk and acceleration terms in SYM effective action. Journal of High Energy Physics, 1999, 1999, 029-029.	4.7	8
57	Holographic entanglement entropy of a 1 + 1 dimensional p-wave superconductor. Journal of High Energy Physics, 2017, 2017, 1.	4.7	8
58	Path integral complexity and Kasner singularities. Journal of High Energy Physics, 2022, 2022, 1.	4.7	8
59	Open string descriptions of spacelike singularities in two dimensional string theory. Physical Review D, 2007, 75, .	4.7	7
60	dS/CFT at uniform energy density and a de Sitter $\hat{=}$ Journal of High Energy Physics, 2014, 2014, 1.	4.7	7
61	Near conformal perturbation theory in SYK type models. Journal of High Energy Physics, 2020, 2020, 1.	4.7	6
62	TIME-DEPENDENT 2D SPACETIMES FROM MATRICES. Modern Physics Letters A, 2005, 20, 2101-2118.	1.2	4
63	HOLOGRAPHY AND COSMOLOGICAL SINGULARITIES. International Journal of Modern Physics A, 2007, 22, 5638-5655.	1.5	4
64	String theory and cosmological singularities. Pramana - Journal of Physics, 2007, 69, 93-108.	1.8	3
65	Quantum quench in $c = 1$ matrix model and emergent space-times. Journal of High Energy Physics, 2020, 2020, 1.	4.7	3
66	Duality in the Sachdev-Ye-Kitaev Model. Springer Proceedings in Mathematics and Statistics, 2018, , 43-61.	0.2	3
67	QCD, strings and emergent space. European Physical Journal: Special Topics, 2022, 231, 73-82.	2.6	2
68	Big bang/big crunch cosmologies in matrix theory and AdS/CFT. Journal of Physics: Conference Series, 2008, 140, 012010.	0.4	1
69	Gauge $\hat{=}$ Gravity Duality and String Cosmology. , 0, , 231-265.		1
70	SINGULARITIES AND GAUGE-GRAVITY DUALITY. International Journal of Modern Physics A, 2008, 23, 2201-2210.	1.5	0
71	Entanglement entropy and phase space density: lowest Landau levels and 1/2 BPS states. Journal of High Energy Physics, 2022, 2022, .	4.7	0