

# Goutam Mandal

## List of Publications by Year in descending order

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113  
papers

3,769  
citations

159358

30  
h-index

138251

58  
g-index

114  
all docs

114  
docs citations

114  
times ranked

2473  
citing authors

#	ARTICLE	IF	CITATIONS
1	CLASSICAL SOLUTIONS OF 2-DIMENSIONAL STRING THEORY. <i>Modern Physics Letters A</i> , 1991, 06, 1685-1692.	0.5	443
2	Microscopic formulation of black holes in string theory. <i>Physics Reports</i> , 2002, 369, 549-686.	10.3	280
3	Aspects of semiclassical strings in AdS5. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002, 543, 81-88.	1.5	190
4	Artemisinin triggers induction of cell-cycle arrest and apoptosis in <i>Leishmania donovani</i> promastigotes. <i>Journal of Medical Microbiology</i> , 2007, 56, 1213-1218.	0.7	174
5	Local fluid dynamical entropy from gravity. <i>Journal of High Energy Physics</i> , 2008, 2008, 055-055.	1.6	165
6	Absorption versus decay of black holes in string theory and T-symmetry. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 388, 51-59.	1.5	120
7	Anti-inflammatory effect of allylpyrocatechol in LPS-induced macrophages is mediated by suppression of iNOS and COX-2 via the NF- $\kappa$ B pathway. <i>International Immunopharmacology</i> , 2008, 8, 1264-1271.	1.7	96
8	Coadjoint orbit action of Virasoro group and two-dimensional quantum gravity dual to SYK/tensor models. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	82
9	Counting 1/8-BPS dual-giants. <i>Journal of High Energy Physics</i> , 2007, 2007, 031-031.	1.6	71
10	Elevated levels of trypanothione peroxidase in antimony unresponsive <i>Leishmania donovani</i> field isolates. <i>Molecular and Biochemical Parasitology</i> , 2010, 173, 162-164.	0.5	69
11	Dynamical entanglement entropy with angular momentum and U(1) charge. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	68
12	NON-RELATIVISTIC FERMIONS, COADJOINT ORBITS OF $W_{\infty}$ AND STRING FIELD THEORY AT $c=1$ . <i>Modern Physics Letters A</i> , 1992, 07, 3129-3145.	0.5	67
13	Fermions from half-BPS supergravity. <i>Journal of High Energy Physics</i> , 2005, 2005, 052-052.	1.6	64
14	A c-function for non-supersymmetric attractors. <i>Journal of High Energy Physics</i> , 2006, 2006, 053-053.	1.6	63
15	An ethanolic extract of leaves of Piper betle (Paan) Linn mediates its antileishmanial activity via apoptosis. <i>Parasitology Research</i> , 2008, 102, 1249-1255.	0.6	59
16	Nielsen-Olesen vortices in noncommutative abelian Higgs model. <i>Journal of High Energy Physics</i> , 2000, 2000, 018-018.	1.6	58
17	Modulation of <i>Leishmania major</i> aquaglyceroporin activity by a mitogen-activated protein kinase. <i>Molecular Microbiology</i> , 2012, 85, 1204-1218.	1.2	52
18	Supergravity description of non-Bogomol'nyi-Prasad-Sommerfield branes. <i>Physical Review D</i> , 2001, 63, .	1.6	51

#	ARTICLE	IF	CITATIONS
19	Gregory-Laflamme as the confinement/deconfinement transition in holographic QCD. Journal of High Energy Physics, 2011, 2011, 1.	1.6	50
20	Analysis of vegetation dynamics and phytodiversity from three dry deciduous forests of Doon Valley, Western Himalaya, India. Journal of Asia-Pacific Biodiversity, 2014, 7, 292-304.	0.2	48
21	Flow cytometric determination of intracellular non-protein thiols in Leishmania promastigotes using 5-chloromethyl fluorescein diacetate. Experimental Parasitology, 2009, 122, 299-305.	0.5	44
22	CLASSICAL FERMI FLUID AND GEOMETRIC ACTION FOR $c=1$ . International Journal of Modern Physics A, 1993, 08, 325-349.	0.5	43
23	Asymptotically free four-Fermi theory in 4 dimensions at the $z=3$ Lifshitz-like fixed point. Physical Review D, 2009, 80, ..	1.6	43
24	Monitoring of intracellular nitric oxide in leishmaniasis: Its applicability in patients with visceral leishmaniasis. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2011, 79A, 35-45.	1.1	42
25	Phases of one dimensional large N gauge theory in a 1/D expansion. Journal of High Energy Physics, 2010, 2010, 1.	1.6	41
26	Holographic dual to charged SYK from 3D gravity and Chern-Simons. Journal of High Energy Physics, 2020, 2020, 1.	1.6	40
27	GAUGE THEORY FORMULATION OF THE $c=1$ MATRIX MODEL: SYMMETRIES AND DISCRETE STATES. International Journal of Modern Physics A, 1992, 07, 5165-5191.	0.5	39
28	Species-Specific Antimonial Sensitivity in Leishmania Is Driven by Post-Transcriptional Regulation of AQP1. PLoS Neglected Tropical Diseases, 2015, 9, e0003500.	1.3	35
29	In vitro antileishmanial activity of Aloe vera leaf exudate: A potential herbal therapy in leishmaniasis. Glycoconjugate Journal, 2006, 24, 81-86.	1.4	34
30	D1/D5 moduli in SCFT and gauge theory, and Hawking radiation. Nuclear Physics B, 2000, 564, 103-127.	0.9	33
31	INTERACTIONS AND SCATTERING IN $d = 1$ STRING THEORY. Modern Physics Letters A, 1991, 06, 1465-1477.	0.5	30
32	$W\tilde{z}$ COHERENT STATES AND PATH-INTEGRAL DERIVATION OF BOSONIZATION OF NON-RELATIVISTIC FERMIONS IN ONE DIMENSION. Modern Physics Letters A, 1993, 08, 3557-3568.	0.5	30
33	Invasion establishment and habitat suitability of Chromolaena odorata (L.) King and Robinson over time and space in the western Himalayan forests of India. Journal of Asia-Pacific Biodiversity, 2014, 7, 391-400.	0.2	30
34	Functionality of drug efflux pumps in antimonial resistant Leishmania donovani field isolates. Indian Journal of Biochemistry and Biophysics, 2009, 46, 86-92.	0.2	29
35	PHASE STRUCTURE OF UNITARY MATRIX MODELS. Modern Physics Letters A, 1990, 05, 1147-1158.	0.5	27
36	STRINGY QUANTUM EFFECTS IN TWO-DIMENSIONAL BLACK HOLE. Modern Physics Letters A, 1992, 07, 3703-3715.	0.5	27

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37	The role of alanine 163 in solute permeability of <i>Leishmania major</i> aquaglyceroporin LmAQP1. <i>Molecular and Biochemical Parasitology</i> , 2011, 175, 83-90.	0.5	26
38	Expression of arsenic resistance genes in the obligate anaerobe <i>Bacteroides vulgatus</i> ATCC 8482, a gut microbiome bacterium. <i>Anaerobe</i> , 2016, 39, 117-123.	1.0	26
39	String field theory of two dimensional QCD: a realization of $W\hat{\alpha}$ algebra. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 329, 15-26.	1.5	25
40	Point mass geometries, spectral flow and AdS <sub>3</sub> –CFT <sub>2</sub> correspondence. <i>Nuclear Physics B</i> , 2000, 564, 128-141.	0.9	25
41	Matrix dynamics of fuzzy spheres. <i>Journal of High Energy Physics</i> , 2002, 2002, 039-039.	1.6	25
42	A TIME-DEPENDENT CLASSICAL SOLUTION OF $c=1$ STRING FIELD THEORY AND NONPERTURBATIVE EFFECTS. <i>International Journal of Modern Physics A</i> , 1993, 08, 3811-3828.	0.5	23
43	Exact operator bosonization of finite number of fermions in one space dimension. <i>Journal of High Energy Physics</i> , 2006, 2006, 118-118.	1.6	23
44	High-level expression of non-glycosylated and active staphylokinase from <i>Pichia pastoris</i> . <i>Biotechnology Letters</i> , 2009, 31, 811-817.	1.1	23
45	Over expression and analysis of O-glycosylated recombinant human granulocyte colony stimulating factor in <i>Pichia pastoris</i> using Agilent 2100 Bioanalyzer. <i>Journal of Biotechnology</i> , 2009, 143, 44-50.	1.9	22
46	Appraisalment and selection of third party logistics service providers in fuzzy environment. <i>Benchmarking</i> , 2013, 20, 537-548.	2.9	22
47	STOCHASTIC DIFFERENTIAL EQUATIONS ON TWO-DIMENSIONAL THEORY SPACE AND MORSE THEORY. <i>Modern Physics Letters A</i> , 1989, 04, 745-756.	0.5	21
48	D1/D5 system with B-field, noncommutative geometry and the CFT of the Higgs branch. <i>Nuclear Physics B</i> , 2000, 575, 177-194.	0.9	21
49	From gravitons to giants. <i>Journal of High Energy Physics</i> , 2006, 2006, 031-031.	1.6	21
50	High yielding recombinant Staphylokinase in bacterial expression system – cloning, expression, purification and activity studies. <i>Protein Expression and Purification</i> , 2009, 64, 69-75.	0.6	20
51	Taguchi approach followed by fuzzy linguistic reasoning for quality – productivity optimization in machining operation. <i>Journal of Manufacturing Technology Management</i> , 2013, 24, 929-951.	3.3	20
52	Thermalization with chemical potentials, and higher spin black holes. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	20
53	Discrete-state moduli of string theory from the $c = 1$ matrix model. <i>Nuclear Physics B</i> , 1995, 454, 541-560.	0.9	19
54	Evaluation of anti-inflammatory activity of methanolic extract of leaves of <i>Bougainvillea spectabilis</i> in experimental animal models. <i>Pharmacognosy Research (discontinued)</i> , 2015, 7, 18.	0.3	19

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55	Bulk entanglement entropy and matrices. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2020, 53, 444002.	0.7	19
56	Perturbatively renormalized vertex operator, highest-weight representations of Virasoro algebra, and string dynamics in curved space. <i>Physical Review D</i> , 1987, 35, 3116-3142.	1.6	18
57	Phase transitions in one matrix models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1990, 251, 388-392.	1.5	18
58	Dual giant gravitons in $AdS_5 \times S^5$ (Sasaki-Einstein). <i>Journal of High Energy Physics</i> , 2007, 2007, 014-014.	1.6	18
59	Generation of an aquaglyceroporin AQP1 null mutant in <i>Leishmania major</i> . <i>Molecular and Biochemical Parasitology</i> , 2015, 201, 108-111.	0.5	18
60	Probing 4-dimensional non-supersymmetric black holes carrying D0- and D6-brane charges. <i>Nuclear Physics B</i> , 1998, 531, 256-274.	0.9	17
61	Quantum quench in matrix models: dynamical phase transitions, selective equilibration and the Generalized Gibbs Ensemble. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	17
62	The inside outs of $AdS_3/CFT_2$ : exact AdS wormholes with entangled CFT duals. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	17
63	Quantum quench and thermalization of one-dimensional Fermi gas via phase-space hydrodynamics. <i>Physical Review A</i> , 2018, 98, .	1.0	16
64	Absorption and Hawking radiation of minimal and fixed scalars, and $AdS/CFT$ correspondence. <i>Nuclear Physics B</i> , 1999, 544, 590-611.	0.9	15
65	Supersymmetric giant graviton solutions in $AdS_3$ . <i>Physical Review D</i> , 2008, 77, .	1.6	14
66	Renormalization group flows in a Lifshitz-like four-Fermi model. <i>Physical Review D</i> , 2010, 81, .	1.6	14
67	Eco-physiology and habitat invasibility of an invasive, tropical shrub ( <i>Lantana camara</i> ) in western Himalayan forests of India. <i>Forest Science and Technology</i> , 2015, 11, 182-196.	0.3	14
68	Matrix model, noncommutative gauge theory and the tachyon potential. <i>Nuclear Physics B</i> , 2001, 599, 137-157.	0.9	13
69	Gravitational collapse in SYK models and Choptuik-like phenomenon. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	13
70	Gauge invariant target space entanglement in D-brane holography. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	1.6	13
71	STRING FIELD THEORY OF TWO-DIMENSIONAL QCD ON A CYLINDER: A REALIZATION OF $W_\infty$ CURRENT ALGEBRA. <i>International Journal of Modern Physics A</i> , 1995, 10, 2189-2223.	0.5	12
72	Holographic Wilsonian flows and emergent fermions in extremal charged black holes. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	1.6	12

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73	Estimation of above-ground biomass and carbon stock of an invasive woody shrub in the subtropical deciduous forests of Doon Valley, western Himalaya, India. <i>Journal of Forestry Research</i> , 2015, 26, 291-305.	1.7	12
74	Visual detection of serum asialohaptoglobin by plasmonic sandwich ELLSA – a new platform for cirrhosis diagnosis. <i>Analyst, The</i> , 2016, 141, 76-84.	1.7	12
75	Thermalization in 2D critical quench and UV/IR mixing. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	12
76	Over-expression of proteins using a modified pBAD24 vector in E. coli expression system. <i>Biotechnology Letters</i> , 2009, 31, 1031-1036.	1.1	11
77	Double trace flows and holographic RG in dS/CFT correspondence. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	1.6	11
78	Virasoro conditions, vertex operators, and string dynamics in curved space. <i>Physical Review D</i> , 1987, 35, 778-781.	1.6	10
79	Role of initial conditions in the classification of the rule space of cellular automata dynamics. <i>Physical Review E</i> , 1995, 51, 3032-3037.	0.8	10
80	A note on D-branes of odd codimensions from noncommutative tachyons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 495, 193-200.	1.5	10
81	Microstate dependence of scattering from the D1-D5 system. <i>Journal of High Energy Physics</i> , 2009, 2009, 036-036.	1.6	9
82	Trypanosomatid Aquaporins: Roles in Physiology and Drug Response. <i>Diseases (Basel, Switzerland)</i> , 2014, 2, 3-23.	1.0	9
83	Functional role of lysine 12 in <i>Leishmania major</i> AQP1. <i>Molecular and Biochemical Parasitology</i> , 2015, 201, 139-145.	0.5	9
84	WAVE PROPAGATION IN STRINGY BLACK HOLE. <i>Modern Physics Letters A</i> , 1993, 08, 1701-1718.	0.5	8
85	Leading large N modification of QCD2 on a cylinder by dynamical fermions. <i>Nuclear Physics B</i> , 1995, 436, 487-506.	0.9	8
86	String beta function equations from the $c = 1$ matrix model. <i>Nuclear Physics B</i> , 1995, 451, 507-524.	0.9	8
87	Black hole geometry around an elementary BPS string state. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 372, 34-44.	1.5	8
88	Rolling tachyon solution of two-dimensional string theory. <i>Journal of High Energy Physics</i> , 2004, 2004, 038-038.	1.6	8
89	Bosonization of nonrelativistic fermions on a circle: Tomonaga's problem revisited. <i>Physical Review D</i> , 2006, 74, .	1.6	8
90	Cytotoxicity of <i>Senecio</i> in macrophages is mediated via its induction of oxidative stress. <i>Research in Veterinary Science</i> , 2009, 87, 85-90.	0.9	8

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91	Phases of a two-dimensional large-N gauge theory on a torus. <i>Physical Review D</i> , 2011, 84, .	1.6	8
92	Quantum quench and thermalization to GGE in arbitrary dimensions and the odd-even effect. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	1.6	8
93	Gold nanoparticle-based novel visual diagnostic method for the detection of specific IgE to test for food allergies. <i>Analytical Methods</i> , 2016, 8, 3878-3884.	1.3	7
94	Journey of Kilogram from Physical Constant to Universal Physical Constant (h) via Artefact: A Brief Review. <i>Mapan - Journal of Metrology Society of India</i> , 2020, 35, 585-593.	1.0	7
95	Rapid and Sensitive Method to Detect Oxidized Forms of rhGCSF Using Agilent 2100 Bioanalyzer. <i>Analytical Letters</i> , 2009, 42, 1070-1083.	1.0	6
96	Comparative Analysis of Different Air Density Equations. <i>Mapan - Journal of Metrology Society of India</i> , 2013, 28, 51-62.	1.0	6
97	The Role of Habitat Types and Soil Physicochemical Properties in the Spread of a Non Native Shrub <i>Lantana Camara</i> in the Doon Valley, Western Himalaya, India. <i>Journal of Environmental Geography</i> , 2014, 7, 31-42.	1.2	5
98	Revisiting AdS/CFT at a finite radial cut-off. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	5
99	Non-renormalization of Yukawa couplings on orbifolds. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1987, 195, 547-553.	1.5	4
100	Thermodynamics of QCD from Sakai-Sugimoto model. <i>Journal of High Energy Physics</i> , 2015, 2015, 1-19.	1.6	4
101	Structural Heterogeneity of Glycoform of Alpha-1 Acid Glycoprotein in Alcoholic Cirrhosis Patients. <i>Advances in Experimental Medicine and Biology</i> , 2015, 842, 389-401.	0.8	4
102	Quantization of degenerate vacua and symmetry breaking in string theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989, 220, 533-538.	1.5	3
103	Probing type IIB string theory using D0 and D4-branes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 415, 135-143.	1.5	3
104	Development of a Membrane-Based Method for Isolation of Genomic DNA from Human Blood. <i>Journal of Biomolecular Techniques</i> , 2018, 29, 46-53.	0.8	3
105	Observability of quantum state of black hole. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 392, 39-48.	1.5	2
106	Drug Resistance in <i>Leishmania</i> . , 2017, , 649-665.		2
107	Changes in Physicochemical Properties of Soil Encourage the Invasion Establishment and Carbon Dynamics of <i>Lantana camara</i> from Doon Valley, Western Himalaya, India. <i>Aceh International Journal of Science and Technology</i> , 2014, 3, 87-105.	0.1	2
108	Comments on "Ideal gas and the second law of thermodynamics". <i>American Journal of Physics</i> , 1984, 52, 462-463.	0.3	1

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109	Volume Measurement of Large Volumetric Vessel Using Tap Water. Mapan - Journal of Metrology Society of India, 2019, 34, 487-493.	1.0	1
110	Validation of Rear Axle with Differential Lock for Off-Road Vehicles. International Journal of Vehicle Structures and Systems, 2011, 3, .	0.1	1
111	Two-dimensional gravity, matrix models and nonperturbative string theory. Pramana - Journal of Physics, 1993, 41, 509-516.	0.9	0
112	HOLOGRAPHIC WILSONIAN RENORMALIZATION GROUP. International Journal of Modern Physics Conference Series, 2013, 21, 149-150.	0.7	0
113	The Wilsonian revolution in statistical mechanics and quantum field theory. Resonance, 2017, 22, 15-36.	0.2	0