

# Sunandan Gangopadhyay

## List of Publications by Year in descending order

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119  
papers

1,772  
citations

304743

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330143

37  
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119  
all docs

119  
docs citations

119  
times ranked

528  
citing authors

#	ARTICLE	IF	CITATIONS
1	Voros product, noncommutative Schwarzschild black hole and corrected area law. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 686, 181-187.	4.1	98
2	Analytic study of properties of holographic superconductors in Born-Infeld electrodynamics. Journal of High Energy Physics, 2012, 2012, 1.	4.7	87
3	Dual families of noncommutative quantum systems. Physical Review D, 2005, 71, .	4.7	80
4	Analytic study of Gauss-Bonnet holographic superconductors in Born-Infeld electrodynamics. Journal of High Energy Physics, 2012, 2012, 1.	4.7	76
5	Generalized uncertainty principle and black hole thermodynamics. General Relativity and Gravitation, 2014, 46, 1.	2.0	62
6	Seiberg-Witten map and Galilean symmetry violation in a noncommutative planar system. Physical Review D, 2004, 70, .	4.7	61
7	Interactions and non-commutativity in quantum Hall systems. Journal of Physics A, 2005, 38, 9849-9858.	1.6	59
8	Analytic study of properties of holographic p-wave superconductors. Journal of High Energy Physics, 2012, 2012, 1.	4.7	57
9	Constraints on the Generalized Uncertainty Principle from black-hole thermodynamics. Europhysics Letters, 2015, 112, 20006.	2.0	57
10	Path-Integral Action of a Particle in the Noncommutative Plane. Physical Review Letters, 2009, 102, 241602.	7.8	54
11	Twisted Galilean symmetry and the Pauli principle at low energies. Journal of Physics A, 2006, 39, 9557-9572.	1.6	52
12	Holographic $s$ -wave condensate with nonlinear electrodynamics: A nontrivial boundary value problem. Physical Review D, 2013, 87, .	4.7	49
13	Higher dimensional holographic superconductors in Born-Infeld electrodynamics with back-reaction. European Physical Journal C, 2016, 76, 1.	3.9	46
14	Holographic superconductors in Born-Infeld electrodynamics and external magnetic field. Modern Physics Letters A, 2014, 29, 1450088.	1.2	38
15	Noncommutative quantum mechanics of a harmonic oscillator under linearized gravitational waves. Physical Review D, 2011, 83, .	4.7	34
16	Hawking radiation from Garfinkle-Horowitz-Strominger and nonextremal D1-D5 black holes via covariant anomalies. Physical Review D, 2008, 77, .	4.7	31
17	Harmonic oscillator in a background magnetic field in noncommutative quantum phase-space. Europhysics Letters, 2009, 86, 51001.	2.0	31
18	Constraints on rainbow gravity functions from black-hole thermodynamics. Europhysics Letters, 2016, 115, 50005.	2.0	30

#	ARTICLE	IF	CITATIONS
19	Shadow of charged black holes in Gauss-Bonnet gravity. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	30
20	Analytic study of properties of holographic superconductors away from the probe limit. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 724, 176-181.	4.1	27
21	Investigation of circular geodesics in a rotating charged black hole in the presence of perfect fluid dark matter. <i>Classical and Quantum Gravity</i> , 2021, 38, 065015.	4.0	27
22	Mutual information, islands in black holes and the Page curve. <i>European Physical Journal C</i> , 2022, 82, .	3.9	23
23	Symmetries of topological gravity with torsion in the hamiltonian and lagrangian formalisms. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	22
24	Shadow of a noncommutative geometry inspired Ayón Beato García black hole. <i>General Relativity and Gravitation</i> , 2018, 50, 1.	2.0	21
25	Remnant mass and entropy of black holes and modified uncertainty principle. <i>General Relativity and Gravitation</i> , 2014, 46, 1.	2.0	20
26	Noncommutative quantum mechanics of a test particle under linearized gravitational waves. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 681, 96-99.	4.1	19
27	Accretion onto a noncommutative-inspired Schwarzschild black hole. <i>International Journal of Modern Physics A</i> , 2018, 33, 1850084.	1.5	19
28	On the Landau system in noncommutative phase-space. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2015, 379, 2956-2961.	2.1	18
29	Hawking radiation from a Reissner-Nordström black hole with a global monopole via covariant anomalies and effective action. <i>Physical Review D</i> , 2008, 78, .	4.7	17
30	Non(anti)commutativity for open superstrings. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 625, 302-312.	4.1	15
31	Normal ordering and noncommutativity in open bosonic strings. <i>Physical Review D</i> , 2006, 74, .	4.7	15
32	Rainbow black hole thermodynamics and the generalized uncertainty principle. <i>General Relativity and Gravitation</i> , 2018, 50, 1.	2.0	15
33	Path-integral action of a particle with the generalized uncertainty principle and correspondence with noncommutativity. <i>Physical Review D</i> , 2019, 99, .	4.7	14
34	Holographic study of entanglement and complexity for mixed states. <i>Physical Review D</i> , 2021, 103, .	4.7	14
35	Holographic subregion complexity of boosted black brane and Fisher information. <i>Physical Review D</i> , 2019, 100, .	4.7	13
36	Generalized uncertainty principle in resonant detectors of gravitational waves. <i>Classical and Quantum Gravity</i> , 2020, 37, 195006.	4.0	13

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37	On the question of symmetries in nonrelativistic diffeomorphism-invariant theories. <i>International Journal of Modern Physics A</i> , 2017, 32, 1750115.	1.5	12
38	Black Hole Thermodynamics and Generalized Uncertainty Principle with Higher Order Terms in Momentum Uncertainty. <i>Advances in High Energy Physics</i> , 2018, 2018, 1-9.	1.1	12
39	Conductivity of holographic superconductors in Born-Infeld electrodynamics. <i>Nuclear Physics B</i> , 2018, 933, 1-13.	2.5	12
40	Violation of equivalence in an accelerating atom-mirror system in the generalized uncertainty principle framework. <i>Physical Review D</i> , 2021, 104, .	4.7	12
41	Resonant detectors of gravitational wave as a possible probe of the noncommutative structure of space. <i>Classical and Quantum Gravity</i> , 2016, 33, 205006.	4.0	11
42	Non-linear effects on the holographic free energy and thermodynamic geometry. <i>Europhysics Letters</i> , 2017, 118, 31001.	2.0	11
43	Holographic complexity for Lifshitz system. <i>Physical Review D</i> , 2018, 98, .	4.7	11
44	Noncommutative effects on holographic superconductors with power Maxwell electrodynamics. <i>Annals of Physics</i> , 2018, 388, 472-484.	2.8	10
45	p-wave holographic superconductors with massive vector condensate in Born-Infeld electrodynamics. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	10
46	Study of circular geodesics and shadow of rotating charged black hole surrounded by perfect fluid dark matter immersed in plasma. <i>Classical and Quantum Gravity</i> , 2022, 39, 075005.	4.0	10
47	Path integral action of a particle in a magnetic field in the noncommutative plane and the Aharonov-Bohm effect. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2014, 47, 075301.	2.1	9
48	Emergent Universe with Particle Production. <i>International Journal of Theoretical Physics</i> , 2016, 55, 4445-4452.	1.2	9
49	Quantum mechanical systems interacting with different polarizations of gravitational waves in noncommutative phase space. <i>Physical Review D</i> , 2018, 97, .	4.7	9
50	Footprint of spatial noncommutativity in resonant detectors of gravitational wave. <i>Classical and Quantum Gravity</i> , 2019, 36, 055006.	4.0	9
51	Holographic entanglement entropy and generalized entanglement temperature. <i>Physical Review D</i> , 2019, 100, .	4.7	9
52	Holographic entanglement thermodynamics for higher dimensional charged black hole. <i>Nuclear Physics B</i> , 2019, 938, 363-387.	2.5	9
53	Path-integral action in the generalized uncertainty principle framework. <i>Physical Review D</i> , 2021, 104, .	4.7	9
54	Entanglement wedge cross-section for noncommutative Yang-Mills theory. <i>Journal of High Energy Physics</i> , 2022, 2022, 1.	4.7	9

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55	Normal ordering and non(anti)commutativity in open super strings. <i>Physical Review D</i> , 2007, 75, .	4.7	8
56	Komar energy and Smarr formula for noncommutative inspired Schwarzschild black hole. <i>General Relativity and Gravitation</i> , 2011, 43, 3201-3212.	2.0	8
57	Holographic free energy and thermodynamic geometry. <i>European Physical Journal C</i> , 2016, 76, 1.	3.9	8
58	Noncommutative effects of spacetime on holographic superconductors. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 758, 106-112.	4.1	8
59	Minimal Length Effects in Black Hole Thermodynamics from Tunneling Formalism. <i>International Journal of Theoretical Physics</i> , 2016, 55, 617-624.	1.2	8
60	Bulk geometry from entanglement entropy of CFT. <i>European Physical Journal Plus</i> , 2020, 135, 1.	2.6	8
61	Noncommutative quantum mechanics of simple matter systems interacting with circularly polarized gravitational waves. <i>General Relativity and Gravitation</i> , 2015, 47, 1.	2.0	7
62	Thermodynamics of a Charged Particle in a Noncommutative Plane in a Background Magnetic Field. <i>International Journal of Theoretical Physics</i> , 2017, 56, 1831-1844.	1.2	7
63	Holographic insulator/superconductor phase transition in higher dimensional Gauss-Bonnet gravity. <i>Annals of Physics</i> , 2019, 403, 59-67.	2.8	7
64	Probing the generalized uncertainty principle through quantum noises in optomechanical systems. <i>Classical and Quantum Gravity</i> , 2022, 39, 075020.	4.0	7
65	Anomalies, horizons and Hawking radiation. <i>Europhysics Letters</i> , 2009, 85, 10004.	2.0	6
66	A Study of the Efficiency of the Class of W-States as a Quantum Channel. <i>International Journal of Theoretical Physics</i> , 2009, 48, 403-408.	1.2	6
67	Hawking radiation and near horizon universality of chiral Virasoro algebra. <i>General Relativity and Gravitation</i> , 2010, 42, 2865-2871.	2.0	6
68	CORRECTED AREA LAW AND KOMAR ENERGY FOR NONCOMMUTATIVE INSPIRED REISSNER-NORDSTRÖM BLACK HOLE. <i>International Journal of Modern Physics A</i> , 2012, 27, 1250041.	1.5	6
69	Thermodynamics of Black Holes and the Symmetric Generalized Uncertainty Principle. <i>International Journal of Theoretical Physics</i> , 2016, 55, 2746-2754.	1.2	6
70	Exact Solutions of a Damped Harmonic Oscillator in a Time Dependent Noncommutative Space. <i>International Journal of Theoretical Physics</i> , 2020, 59, 3852-3875.	1.2	6
71	Phase transitions in Born-Infeld AdS black holes in D-dimensions. <i>General Relativity and Gravitation</i> , 2020, 52, 1.	2.0	6
72	Effect of magnetic field on holographic insulator/superconductor phase transition in higher dimensional Gauss-Bonnet gravity. <i>European Physical Journal C</i> , 2020, 80, 1.	3.9	6

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73	$\hat{p}$ -Minkowski and Snyder algebra from reparametrisation symmetry. Europhysics Letters, 2008, 83, 21002.	2.0	5
74	Hamiltonian analysis of symmetries in a massive theory of gravity. Journal of High Energy Physics, 2011, 2011, 1.	4.7	5
75	Path integral action and Chern-Simons quantum mechanics in noncommutative plane. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 235301.	2.1	5
76	Analytic investigation of rotating holographic superconductors. European Physical Journal C, 2019, 79, 1.	3.9	5
77	Analytical study of holographic superconductor with backreaction in 4d Gauss-Bonnet gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136699.	4.1	5
78	Phase transition structure and breaking of universal nature of central charge criticality in a Born-Infeld AdS black hole. Physical Review D, 2022, 106, .	4.7	5
79	Hawking radiation from black holes in de Sitter spaces via covariant anomalies. General Relativity and Gravitation, 2010, 42, 1183-1187.	2.0	4
80	TRACE OF PHASE-SPACE NONCOMMUTATIVITY IN RESPONSE OF A FREE PARTICLE TO LINEARIZED GRAVITATIONAL WAVES. Modern Physics Letters A, 2013, 28, 1350161.	1.2	4
81	Pauli equation on noncommutative plane and the Seiberg-Witten map. Modern Physics Letters A, 2016, 31, 1650087.	1.2	4
82	Interacting Chaplygin gas revisited. Modern Physics Letters A, 2017, 32, 1750109.	1.2	4
83	Viscosity to entropy density ratio for non-extremal Gauss-Bonnet black holes coupled to Born-Infeld electrodynamics. European Physical Journal C, 2017, 77, 1.	3.9	4
84	Scalar-metric quantum cosmology with Chaplygin gas and perfect fluid. European Physical Journal C, 2018, 78, 1.	3.9	4
85	Holographic information theoretic quantities for Lifshitz black hole. European Physical Journal C, 2020, 80, 1.	3.9	4
86	Resonance interaction of two entangled atoms accelerating between two mirrors. European Physical Journal D, 2021, 75, 1.	1.3	4
87	Equivalence principle and HBAR entropy of an atom falling into a quantum corrected black hole. Physical Review D, 2022, 105, .	4.7	4
88	Voros product and the Pauli principle at low energies. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 175401.	2.1	3
89	Path integral action of a particle in $\hat{p}$ -Minkowski spacetime. Europhysics Letters, 2018, 122, 40001.	2.0	3
90	Anisotropic quantum cosmology with minimally coupled scalar field. Modern Physics Letters A, 2019, 34, 1950283.	1.2	3

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91	Holographic complexity of $\epsilon$ -non-susy D3-brane and the high temperature limit. International Journal of Modern Physics A, 2019, 34, 1950003.	1.5	3
92	Universal pieces of holographic entanglement entropy and holographic subregion complexity. Physical Review D, 2020, 102, .	4.7	3
93	Photon velocity, power spectrum in Unruh effect with modified dispersion relation. Europhysics Letters, 2020, 129, 30002.	2.0	3
94	Cosmology of Bianchi type-I metric using renormalization group approach for quantum gravity. Classical and Quantum Gravity, 2020, 37, 065012.	4.0	3
95	Investigation of a harmonic oscillator in a magnetic field with damping and time dependent noncommutativity. Physica Scripta, 0, , .	2.5	3
96	Noncommutative quantum cosmology with perfect fluid. Modern Physics Letters A, 2022, 37, .	1.2	3
97	Near horizon aspects of acceleration radiation of an atom falling into a class of static spherically symmetric black hole geometries. Physical Review D, 2022, 106, .	4.7	3
98	String Non(anti)commutativity for Neveu-Schwarz Boundary Conditions. International Journal of Theoretical Physics, 2008, 47, 2372-2381.	1.2	2
99	Strings in pp-wave background and background B-field from membrane and its symplectic quantization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 399-406.	4.1	2
100	QUANTUM MECHANICS OF A CHARGED PARTICLE IN A BACKGROUND MAGNETIC FIELD INTERACTING WITH LINEARIZED GRAVITATIONAL WAVES. Modern Physics Letters A, 2012, 27, 1250192.	1.2	2
101	Noncommutativity from exact renormalization group dualities. Physical Review D, 2014, 90, .	4.7	2
102	Thermodynamics and emergent universe. Modern Physics Letters A, 2017, 32, 1750089.	1.2	2
103	Meissner like effect in holographic superconductors with back reaction. Annals of Physics, 2020, 414, 168078.	2.8	2
104	Phase transitions in D-dimensional Gauss-Bonnet-Born-Infeld AdS black holes. General Relativity and Gravitation, 2021, 53, 1.	2.0	2
105	Novel vortices and the role of a complex chemical potential in a rotating holographic superfluid. Physical Review D, 2021, 104, .	4.7	2
106	Aspects of diffeomorphism and conformal invariance in classical Liouville theory. Europhysics Letters, 2010, 89, 11003.	2.0	1
107	Noncommutative inspired Schwarzschild black hole, Voros product and Komar energy. Journal of Physics: Conference Series, 2012, 405, 012014.	0.4	1
108	Interaction of a circularly polarised gravitational wave with a charged particle in a static magnetic background. General Relativity and Gravitation, 2015, 47, 1.	2.0	1

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109	Path-integral action of a particle in the noncommutative phase-space. Europhysics Letters, 2017, 117, 10010.	2.0	1
110	Phase-space noncommutativity and the thermodynamics of the Landau system. Modern Physics Letters A, 2017, 32, 1750102.	1.2	1
111	Noncommutative effects of charged black hole on holographic superconductors. General Relativity and Gravitation, 2018, 50, 1.	2.0	1
112	The effect of modified dispersion relation on dumb holes. International Journal of Modern Physics D, 2018, 27, 1850113.	2.1	1
113	Holographic insulator/superconductor phase transition via matching method and thermodynamic geometry approach. International Journal of Modern Physics A, 0, , .	1.5	1
114	Analytical approach to compute conductivity of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -wave holographic superconductors. Physical Review D, 2022, 105, .	4.7	1
115	Statistical interparticle potential on noncommutative space. Europhysics Letters, 2012, 97, 21001.	2.0	0
116	VOROS PRODUCT AND NONCOMMUTATIVE INSPIRED BLACK HOLES. Modern Physics Letters A, 2013, 28, 1350030.	1.2	0
117	Path integral action and exact renormalization group dualities for quantum systems in noncommutative plane. Europhysics Letters, 2015, 110, 51002.	2.0	0
118	Meissner effect in holographic superconductors with Dirac-Born-Infeld electrodynamics. Modern Physics Letters A, 2020, 35, 2050020.	1.2	0
119	Entropy function from the Einstein boundary term. Europhysics Letters, 2021, 134, 60003.	2.0	0