Sunandan Gangopadhyay

List of Publications by Year
in descending order

119 papers	1,772 citations	304743 22 h-index	330143 37 g-index
119 all docs	119 docs citations	119 times ranked	528 citing authors

#	Article	IF	Citations
1	Noncommutative quantum cosmology with perfect fluid. Modern Physics Letters A, 2022, 37, .	1.2	3
2	Study of circular geodesics and shadow of rotating charged black hole surrounded by perfect fluid dark matter immersed in plasma. Classical and Quantum Gravity, 2022, 39, 075005.	4.0	10
3	Entanglement wedge cross-section for noncommutative Yang-Mills theory. Journal of High Energy Physics, 2022, 2022, 1.	4.7	9
4	Analytical approach to compute conductivity of p-wave holographic superconductors. Physical Review D, 2022, 105, .	4.7	1
5	Probing the generalized uncertainty principle through quantum noises in optomechanical systems. Classical and Quantum Gravity, 2022, 39, 075020.	4.0	7
6	Equivalence principle and HBAR entropy of an atom falling into a quantum corrected black hole. Physical Review D, 2022, 105, .	4.7	4
7	Mutual information, islands in black holes and the Page curve. European Physical Journal C, 2022, 82, .	3.9	23
8	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
9	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
10	Investigation of circular geodesics in a rotating charged black hole in the presence of perfect fluid dark matter. Classical and Quantum Gravity, 2021, 38, 065015.	4.0	27
11	Phase transitions in D-dimensional Gauss–Bonnet–Born–Infeld AdS black holes. General Relativity and Gravitation, 2021, 53, 1.	2.0	2
12	Holographic study of entanglement and complexity for mixed states. Physical Review D, 2021, 103, .	4.7	14
13	Resonance interaction of two entangled atoms accelerating between two mirrors. European Physical Journal D, 2021, 75, 1.	1.3	4
14	Entropy function from the Einstein boundary term. Europhysics Letters, 2021, 134, 60003.	2.0	0
15	Path-integral action in the generalized uncertainty principle framework. Physical Review D, 2021, 104, .	4.7	9
16	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
17	Novel vortices and the role of a complex chemical potential in a rotating holographic superfluid. Physical Review D, 2021, 104, .	4.7	2
18	Violation of equivalence in an accelerating atom-mirror system in the generalized uncertainty principle framework. Physical Review D, 2021, 104, .	4.7	12

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19	Exact Solutions of a Damped Harmonic Oscillator in a Time Dependent Noncommutative Space. International Journal of Theoretical Physics, 2020, 59, 3852-3875.	1.2	6
20	Universal pieces of holographic entanglement entropy and holographic subregion complexity. Physical Review D, 2020, 102, .	4.7	3
21	Meissner effect in holographic superconductors with Dirac–Born–Infeld electrodynamics. Modern Physics Letters A, 2020, 35, 2050020.	1.2	0
22	Holographic information theoretic quantities for Lifshitz black hole. European Physical Journal C, 2020, 80, 1.	3.9	4
23	Bulk geometry from entanglement entropy of CFT. European Physical Journal Plus, 2020, 135, 1.	2.6	8
24	Meissner like effect in holographic superconductors with back reaction. Annals of Physics, 2020, 414, 168078.	2.8	2
25	Shadow of charged black holes in Gauss–Bonnet gravity. European Physical Journal C, 2020, 80, 1.	3.9	30
26	Phase transitions in Born-Infeld AdS black holes in D-dimensions. General Relativity and Gravitation, 2020, 52, 1.	2.0	6
27	Photon velocity, power spectrum in Unruh effect with modified dispersion relation. Europhysics Letters, 2020, 129, 30002.	2.0	3
28	Cosmology of Bianchi type-I metric using renormalization group approach for quantum gravity. Classical and Quantum Gravity, 2020, 37, 065012.	4.0	3
29	p-wave holographic superconductors with massive vector condensate in Born–Infeld electrodynamics. European Physical Journal C, 2020, 80, 1.	3.9	10
30	Effect of magnetic field on holographic insulator/superconductor phase transition in higher dimensional Gauss–Bonnet gravity. European Physical Journal C, 2020, 80, 1.	3.9	6
31	Generalized uncertainty principle in resonant detectors of gravitational waves. Classical and Quantum Gravity, 2020, 37, 195006.	4.0	13
32	Analytic investigation of rotating holographic superconductors. European Physical Journal C, 2019, 79, 1.	3.9	5
33	Anisotropic quantum cosmology with minimally coupled scalar field. Modern Physics Letters A, 2019, 34, 1950283.	1.2	3
34	Holographic subregion complexity of boosted black brane and Fisher information. Physical Review D, 2019, 100, .	4.7	13
35	Holographic complexity of "black" non-susy D3-brane and the high temperature limit. International Journal of Modern Physics A, 2019, 34, 1950003.	1.5	3
36	Footprint of spatial noncommutativity in resonant detectors of gravitational wave. Classical and Quantum Gravity, 2019, 36, 055006.	4.0	9

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37	Path-integral action of a particle with the generalized uncertainty principle and correspondence with noncommutativity. Physical Review D, 2019, 99, .	4.7	14
38	Holographic insulator/superconductor phase transition in higher dimensional Gauss–Bonnet gravity. Annals of Physics, 2019, 403, 59-67.	2.8	7
39	Holographic entanglement entropy and generalized entanglement temperature. Physical Review D, 2019, 100, .	4.7	9
40	Holographic entanglement thermodynamics for higher dimensional charged black hole. Nuclear Physics B, 2019, 938, 363-387.	2.5	9
41	Quantum mechanical systems interacting with different polarizations of gravitational waves in noncommutative phase space. Physical Review D, 2018, 97, .	4.7	9
42	Scalar-metric quantum cosmology with Chaplygin gas and perfect fluid. European Physical Journal C, 2018, 78, 1.	3.9	4
43	Noncommutative effects on holographic superconductors with power Maxwell electrodynamics. Annals of Physics, 2018, 388, 472-484.	2.8	10
44	Noncommutative effects of charged black hole on holographic superconductors. General Relativity and Gravitation, 2018, 50, 1.	2.0	1
45	Rainbow black hole thermodynamics and the generalized uncertainty principle. General Relativity and Gravitation, 2018, 50, 1.	2.0	15
46	Accretion onto a noncommutative-inspired Schwarzschild black hole. International Journal of Modern Physics A, 2018, 33, 1850084.	1.5	19
47	Path integral action of a particle in κ -Minkowski spacetime. Europhysics Letters, 2018, 122, 40001.	2.0	3
48	The effect of modified dispersion relation on dumb holes. International Journal of Modern Physics D, 2018, 27, 1850113.	2.1	1
49	Shadow of a noncommutative geometry inspired Ayón Beato García black hole. General Relativity and Gravitation, 2018, 50, 1.	2.0	21
50	Holographic complexity for Lifshitz system. Physical Review D, 2018, 98, .	4.7	11
51	Black Hole Thermodynamics and Generalized Uncertainty Principle with Higher Order Terms in Momentum Uncertainty. Advances in High Energy Physics, 2018, 2018, 1-9.	1.1	12
52	Conductivity of holographic superconductors in Born–Infeld electrodynamics. Nuclear Physics B, 2018, 933, 1-13.	2.5	12
53	Path-integral action of a particle in the noncommutative phase-space. Europhysics Letters, 2017, 117, 10010.	2.0	1
54	Thermodynamics and emergent universe. Modern Physics Letters A, 2017, 32, 1750089.	1.2	2

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55	Interacting Chaplygin gas revisited. Modern Physics Letters A, 2017, 32, 1750109.	1.2	4
56	Thermodynamics of a Charged Particle in a Noncommutative Plane in a Background Magnetic Field. International Journal of Theoretical Physics, 2017, 56, 1831-1844.	1.2	7
57	Phase–space noncommutativity and the thermodynamics of the Landau system. Modern Physics Letters A, 2017, 32, 1750102.	1.2	1
58	On the question of symmetries in nonrelativistic diffeomorphism-invariant theories. International Journal of Modern Physics A, 2017, 32, 1750115.	1.5	12
59	Non-linear effects on the holographic free energy and thermodynamic geometry. Europhysics Letters, 2017, 118, 31001.	2.0	11
60	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
61	Pauli equation on noncommutative plane and the Seiberg–Witten map. Modern Physics Letters A, 2016, 31, 1650087.	1.2	4
62	Resonant detectors of gravitational wave as a possible probe of the noncommutative structure of space. Classical and Quantum Gravity, 2016, 33, 205006.	4.0	11
63	Constraints on rainbow gravity functions from black-hole thermodynamics. Europhysics Letters, 2016, 115, 50005.	2.0	30
64	Holographic free energy and thermodynamic geometry. European Physical Journal C, 2016, 76, 1.	3.9	8
65	Emergent Universe with Particle Production. International Journal of Theoretical Physics, 2016, 55, 4445-4452.	1.2	9
66	Noncommutative effects of spacetime on holographic superconductors. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 758, 106-112.	4.1	8
67	Higher dimensional holographic superconductors in Born–Infeld electrodynamics with back-reaction. European Physical Journal C, 2016, 76, 1.	3.9	46
68	Thermodynamics of Black Holes and the Symmetric Generalized Uncertainty Principle. International Journal of Theoretical Physics, 2016, 55, 2746-2754.	1.2	6
69	Minimal Length Effects in Black Hole Thermodynamics from Tunneling Formalism. International Journal of Theoretical Physics, 2016, 55, 617-624.	1.2	8
70	Constraints on the Generalized Uncertainty Principle from black-hole thermodynamics. Europhysics Letters, 2015, 112, 20006.	2.0	57
71	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
72	Noncommutative quantum mechanics of simple matter systems interacting with circularly polarized gravitational waves. General Relativity and Gravitation, 2015, 47, 1.	2.0	7

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73	Path integral action and exact renormalization group dualities for quantum systems in noncommutative plane. Europhysics Letters, 2015, 110, 51002.	2.0	0
74	On the Landau system in noncommutative phase-space. Physics Letters, Section A: General, Atomic and Solid State Physics, 2015, 379, 2956-2961.	2.1	18
75	Holographic superconductors in Bornâ€"Infeld electrodynamics and external magnetic field. Modern Physics Letters A, 2014, 29, 1450088.	1.2	38
76	Path integral action of a particle in a magnetic field in the noncommutative plane and the Aharonovâ€"Bohm effect. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 075301.	2.1	9
77	Noncommutativity from exact renormalization group dualities. Physical Review D, 2014, 90, .	4.7	2
78	Generalized uncertainty principle and black hole thermodynamics. General Relativity and Gravitation, 2014, 46, 1.	2.0	62
79	Path integral action and Chernâ€"Simons quantum mechanics in noncommutative plane. Journal of Physics A: Mathematical and Theoretical, 2014, 47, 235301.	2.1	5
80	Remnant mass and entropy of black holes and modified uncertainty principle. General Relativity and Gravitation, 2014, 46, 1.	2.0	20
81	Analytic study of properties of holographic superconductors away from the probe limit. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 176-181.	4.1	27
82	Holographic s-wave condensate with nonlinear electrodynamics: A nontrivial boundary value problem. Physical Review D, 2013, 87, .	4.7	49
83	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
84	VOROS PRODUCT AND NONCOMMUTATIVE INSPIRED BLACK HOLES. Modern Physics Letters A, 2013, 28, 1350030.	1.2	0
85	Statistical interparticle potential on noncommutative space. Europhysics Letters, 2012, 97, 21001.	2.0	0
86	CORRECTED AREA LAW AND KOMAR ENERGY FOR NONCOMMUTATIVE INSPIRED REISSNERâ€"NORDSTRÃ—M BLACK HOLE. International Journal of Modern Physics A, 2012, 27, 1250041.	1.5	6
87	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
88	Noncommutative inspired Schwarzschild black hole, Voros product and Komar energy. Journal of Physics: Conference Series, 2012, 405, 012014.	0.4	1
89	Analytic study of properties of holographic superconductors in Born-Infeld electrodynamics. Journal of High Energy Physics, 2012, 2012, 1.	4.7	87
90	Analytic study of Gauss-Bonnet holographic superconductors in Born-Infeld electrodynamics. Journal of High Energy Physics, 2012, 2012, 1.	4.7	76

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91	Analytic study of properties of holographic p-wave superconductors. Journal of High Energy Physics, 2012, 2012, 1.	4.7	57
92	Noncommutative quantum mechanics of a harmonic oscillator under linearized gravitational waves. Physical Review D, 2011, 83, .	4.7	34
93	Voros product and the Pauli principle at low energies. Journal of Physics A: Mathematical and Theoretical, 2011, 44, 175401.	2.1	3
94	Komar energy and Smarr formula for noncommutative inspired Schwarzschild black hole. General Relativity and Gravitation, 2011, 43, 3201-3212.	2.0	8
95	Hamiltonian analysis of symmetries in a massive theory of gravity. Journal of High Energy Physics, 2011, 2011, 1.	4.7	5
96	Aspects of diffeomorphism and conformal invariance in classical Liouville theory. Europhysics Letters, 2010, 89, 11003.	2.0	1
97	Symmetries of topological gravity with torsion in the hamiltonian and lagrangian formalisms. Journal of High Energy Physics, 2010, 2010, 1.	4.7	22
98	Hawking radiation from black holes in de Sitter spaces via covariant anomalies. General Relativity and Gravitation, 2010, 42, 1183-1187.	2.0	4
99	Hawking radiation and near horizon universality of chiral Virasoro algebra. General Relativity and Gravitation, 2010, 42, 2865-2871.	2.0	6
100	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
101	Path-Integral Action of a Particle in the Noncommutative Plane. Physical Review Letters, 2009, 102, 241602.	7.8	54
102	Anomalies, horizons and Hawking radiation. Europhysics Letters, 2009, 85, 10004.	2.0	6
103	A Study of the Efficiency of the Class of W-States asÂaÂQuantum Channel. International Journal of Theoretical Physics, 2009, 48, 403-408.	1.2	6
104	Noncommutative quantum mechanics of a test particle under linearized gravitational waves. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 681, 96-99.	4.1	19
105	Harmonic oscillator in a background magnetic field in noncommutative quantum phase-space. Europhysics Letters, 2009, 86, 51001.	2.0	31
106	String Non(anti)commutativity for Neveu-Schwarz Boundary Conditions. International Journal of Theoretical Physics, 2008, 47, 2372-2381.	1.2	2
107	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
108	Hawking radiation from Garfinkle-Horowitz-Strominger and nonextremal D1-D5 black holes via covariant anomalies. Physical Review D, 2008, 77, .	4.7	31

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109	Hawking radiation from a Reissner-Nordström black hole with a global monopole via covariant anomalies and effective action. Physical Review D, 2008, 78, .	4.7	17
110	θ-Minkowski and Snyder algebra from reparametrisation symmetry. Europhysics Letters, 2008, 83, 21002.	2.0	5
111	Normal ordering and non(anti)commutativity in open super strings. Physical Review D, 2007, 75, .	4.7	8
112	Normal ordering and noncommutativity in open bosonic strings. Physical Review D, 2006, 74, .	4.7	15
113	Twisted Galilean symmetry and the Pauli principle at low energies. Journal of Physics A, 2006, 39, 9557-9572.	1.6	52
114	Non(anti)commutativity for open superstrings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 625, 302-312.	4.1	15
115	Interactions and non-commutativity in quantum Hall systems. Journal of Physics A, 2005, 38, 9849-9858.	1.6	59
116	Dual families of noncommutative quantum systems. Physical Review D, 2005, 71, .	4.7	80
117	Seiberg-Witten map and Galilean symmetry violation in a noncommutative planar system. Physical Review D, 2004, 70, .	4.7	61
118	Investigation of a harmonic oscillator in a magnetic field with damping and time dependent noncommutativity. Physica Scripta, 0, , .	2.5	3
119	Holographic insulator/superconductor phase transition via matching method and thermodynamic geometry approach. International Journal of Modern Physics A, 0, , .	1.5	1