

Steven B Giddings

List of Publications by Year in descending order

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Version: 2024-02-01

118
papers

10,231
citations

34105

52
h-index

31849

101
g-index

119
all docs

119
docs citations

119
times ranked

5414
citing authors

#	ARTICLE	IF	CITATIONS
1	Hierarchies from fluxes in string compactifications. <i>Physical Review D</i> , 2002, 66, .	4.7	1,292
2	Evanescent black holes. <i>Physical Review D</i> , 1992, 45, R1005-R1009.	4.7	848
3	High energy colliders as black hole factories: The end of short distance physics. <i>Physical Review D</i> , 2002, 65, .	4.7	728
4	Axion-induced topology change in quantum gravity and string theory. <i>Nuclear Physics B</i> , 1988, 306, 890-907.	2.5	453
5	Loss of incoherence and determination of coupling constants in quantum gravity. <i>Nuclear Physics B</i> , 1988, 307, 854-866.	2.5	445
6	Classical black hole production in high-energy collisions. <i>Physical Review D</i> , 2002, 66, .	4.7	349
7	Linearized gravity in brane backgrounds. <i>Journal of High Energy Physics</i> , 2000, 2000, 023-023.	4.7	325
8	Baby universe, third quantization and the cosmological constant. <i>Nuclear Physics B</i> , 1989, 321, 481-508.	2.5	210
9	Scales and hierarchies in warped compactifications and brane worlds. <i>Physical Review D</i> , 2003, 67, .	4.7	197
10	Conformal geometry and string field theory. <i>Nuclear Physics B</i> , 1986, 278, 91-120.	2.5	166
11	Pair creation of extremal black holes and Kaluza-Klein monopoles. <i>Physical Review D</i> , 1994, 50, 2662-2679.	4.7	157
12	Black holes and massive remnants. <i>Physical Review D</i> , 1992, 46, 1347-1352.	4.7	154
13	Axionic Black Holes and an Aharonov-Bohm Effect for Strings. <i>Physical Review Letters</i> , 1988, 61, 2823-2826.	7.8	145
14	Modular invariance in string field theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1986, 176, 362-368.	4.1	140
15	Observables in effective gravity. <i>Physical Review D</i> , 2006, 74, .	4.7	138
16	Semiclassical relations and IR effects in de Sitter and slow-roll space-times. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 023-023.	5.4	124
17	The Veneziano amplitude from interacting string field theory. <i>Nuclear Physics B</i> , 1986, 278, 242-255.	2.5	121
18	Black hole information, unitarity, and nonlocality. <i>Physical Review D</i> , 2006, 74, .	4.7	117

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19	What do CFTs tell us about anti-de Sitter spacetimes?. Journal of High Energy Physics, 1999, 1999, 001-001.	4.7	105
20	A triangulation of moduli space from light-cone string theory. Communications in Mathematical Physics, 1987, 109, 177-190.	2.2	100
21	Cosmological observables, infrared growth of fluctuations, and scale-dependent anisotropies. Physical Review D, 2011, 84, .	4.7	100
22	Entropy in black hole pair production. Physical Review D, 1994, 49, 958-965.	4.7	96
23	Boundary SMatrix and the Anti-de Sitter Space to Conformal Field Theory Dictionary. Physical Review Letters, 1999, 83, 2707-2710.	7.8	96
24	Black holes from colliding wavepackets. Physical Review D, 2004, 70, .	4.7	95
25	Hawking radiation, the Stefan-Boltzmann law, and unitarization. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 754, 39-42.	4.1	95
26	Quantum emission from two-dimensional black holes. Physical Review D, 1992, 46, 2486-2496.	4.7	93
27	High-temperature strings. Nuclear Physics B, 1989, 325, 631-646.	2.5	92
28	Dynamics of extremal black holes. Physical Review D, 1992, 46, 627-637.	4.7	81
29	Locality in quantum gravity and string theory. Physical Review D, 2006, 74, .	4.7	79
30	Diffeomorphism-invariant observables and their nonlocal algebra. Physical Review D, 2016, 93, .	4.7	79
31	Local bulk S -matrix elements and conformal field theory singularities. Physical Review D, 2009, 80, .	4.7	78
32	Flat-space scattering and bulk locality in the AdS-CFT correspondence. Physical Review D, 2000, 61, .	4.7	72
33	Black holes, quantum information, and unitary evolution. Physical Review D, 2012, 85, .	4.7	72
34	Unitarity of the closed bosonic Polyakov string. Nuclear Physics B, 1987, 291, 90-112.	2.5	71
35	Possible observational windows for quantum effects from black holes. Physical Review D, 2014, 90, .	4.7	70
36	Effective theories and black hole production in warped compactifications. Journal of Mathematical Physics, 2001, 42, 3082-3102.	1.1	69

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37	Nonviolent nonlocality. Physical Review D, 2013, 88, .	4.7	68
38	Astrophysical implications of hypothetical stable TeV-scale black holes. Physical Review D, 2008, 78, .	4.7	67
39	Observables, gravitational dressing, and obstructions to locality and subsystems. Physical Review D, 2016, 94, .	4.7	65
40	Comments on information loss and remnants. Physical Review D, 1994, 49, 4078-4088.	4.7	64
41	String wormholes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1989, 230, 46-51.	4.1	62
42	Cosmological diagrammatic rules. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 015-015.	5.4	62
43	Models for unitary black hole disintegration. Physical Review D, 2012, 85, .	4.7	62
44	Four-dimensional black holes in string theory. Physical Review D, 1993, 48, 5784-5797.	4.7	61
45	The geometry of super Riemann surfaces. Communications in Mathematical Physics, 1988, 116, 607-634.	2.2	58
46	Quantum black holes. Physical Review D, 1992, 46, 638-644.	4.7	57
47	(Non)perturbative gravity, nonlocality, and nice slices. Physical Review D, 2006, 74, .	4.7	57
48	Quantum theories of dilaton gravity. Physical Review D, 1993, 47, 2454-2460.	4.7	55
49	Event Horizon Telescope observations as probes for quantum structure of astrophysical black holes. Physical Review D, 2018, 97, .	4.7	54
50	The gravitational S -matrix. Physical Review D, 2010, 81, .	4.7	53
51	The information paradox and the locality bound. Physical Review D, 2004, 69, .	4.7	52
52	Nonviolent information transfer from black holes: A field theory parametrization. Physical Review D, 2013, 88, .	4.7	52
53	Nonviolent unitarization: basic postulates to soft quantum structure of black holes. Journal of High Energy Physics, 2017, 2017, 1.	4.7	51
54	Nonlocality versus complementarity: a conservative approach to the information problem. Classical and Quantum Gravity, 2011, 28, 025002.	4.0	50

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55	NR/HEP: roadmap for the future. <i>Classical and Quantum Gravity</i> , 2012, 29, 244001.	4.0	50
56	Constraints on black hole remnants. <i>Physical Review D</i> , 1994, 49, 947-957.	4.7	49
57	Precursors, black holes, and a locality bound. <i>Physical Review D</i> , 2001, 65, .	4.7	48
58	Astronomical tests for quantum black hole structure. <i>Nature Astronomy</i> , 2017, 1, .	10.1	48
59	Why aren't black holes infinitely produced?. <i>Physical Review D</i> , 1995, 51, 6860-6869.	4.7	47
60	Gravitational effects in ultrahigh-energy string scattering. <i>Physical Review D</i> , 2008, 77, .	4.7	45
61	Wormhole calculus, replicas, and entropies. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	45
62	High energy QCD scattering, the shape of gravity on an IR brane, and the Froissart bound. <i>Physical Review D</i> , 2003, 67, .	4.7	44
63	Quantization in black hole backgrounds. <i>Physical Review D</i> , 2007, 76, .	4.7	43
64	A global picture of quantum de Sitter space. <i>Physical Review D</i> , 2007, 76, .	4.7	41
65	Exact black five-branes in critical superstring theory. <i>Physical Review Letters</i> , 1991, 67, 2930-2932.	7.8	39
66	Gravitational collapse and its boundary description in AdS. <i>Journal of High Energy Physics</i> , 2002, 2002, 003-003.	4.7	38
67	Gravitational wave tests of quantum modifications to black hole structure with post-GW150914 update. <i>Classical and Quantum Gravity</i> , 2016, 33, 235010.	4.0	38
68	The nonplanar one-loop amplitude in Witten's string field theory. <i>Nuclear Physics B</i> , 1988, 298, 253-322.	2.5	37
69	High-energy scattering in gravity and supergravity. <i>Physical Review D</i> , 2010, 82, .	4.7	34
70	High-energy gravitational scattering and black hole resonances. <i>Physical Review D</i> , 2008, 77, .	4.7	33
71	Quantum information transfer and models for black hole mechanics. <i>Physical Review D</i> , 2013, 87, .	4.7	33
72	Searching for Quantum Black Hole Structure with the Event Horizon Telescope. <i>Universe</i> , 2019, 5, 201.	2.5	33

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73	High-energy scattering and D-pair creation in Matrix string theory. Nuclear Physics B, 1999, 537, 260-296.	2.5	32
74	How is quantum information localized in gravity?. Physical Review D, 2017, 96, .	4.7	32
75	Flat space S matrix from the AdS/CFT correspondence?. Physical Review D, 2009, 80, .	4.7	31
76	Modulated Hawking radiation and a nonviolent channel for information release. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 738, 92-96.	4.1	30
77	Line bundles on super Riemann surfaces. Communications in Mathematical Physics, 1988, 118, 289-302.	2.2	29
78	Fluctuating geometries, q-observables, and infrared growth in inflationary spacetimes. Physical Review D, 2012, 86, .	4.7	29
79	Hilbert space structure in quantum gravity: an algebraic perspective. Journal of High Energy Physics, 2015, 2015, 1-21.	4.7	29
80	Torsion Constraints and Super Riemann Surfaces. Physical Review Letters, 1987, 59, 2619-2622.	7.8	28
81	High-energy black hole production. AIP Conference Proceedings, 2007, , .	0.4	26
82	Gravitational splitting at first order: Quantum information localization in gravity. Physical Review D, 2018, 98, .	4.7	26
83	Some exact results in supersymmetric theories based on exceptional groups. Physical Review D, 1995, 52, 6065-6073.	4.7	25
84	Moduli space of $N=2$ supersymmetric G_2 gauge theory. Physical Review D, 1997, 55, 2367-2372.	4.7	25
85	D3-brane shells to black branes on the Coulomb branch. Physical Review D, 1999, 61, .	4.7	23
86	Gauge-invariant observables, gravitational dressings, and holography in AdS. Journal of High Energy Physics, 2018, 2018, 1.	4.7	23
87	Quantum-First Gravity. Foundations of Physics, 2019, 49, 177-190.	1.3	22
88	Gravitational dressing, soft charges, and perturbative gravitational splitting. Physical Review D, 2019, 100, .	4.7	21
89	Effective field theory models for nonviolent information transfer from black holes. Physical Review D, 2014, 89, .	4.7	20
90	Relational observables in 2D quantum gravity. Physical Review D, 2007, 75, .	4.7	19

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91	Exploring strong-field deviations from general relativity via gravitational waves. <i>Physical Review D</i> , 2019, 100, .	4.7	19
92	Statistical physics of black holes as quantum-mechanical systems. <i>Physical Review D</i> , 2013, 88, .	4.7	18
93	Black holes, quantum information, and the foundations of physics. <i>Physics Today</i> , 2013, 66, 30-35.	0.3	18
94	BLACK HOLES, INFORMATION, AND LOCALITY. <i>Modern Physics Letters A</i> , 2007, 22, 2949-2954.	1.2	17
95	Universal quantum mechanics. <i>Physical Review D</i> , 2008, 78, .	4.7	17
96	Black holes in the quantum universe. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20190029.	3.4	17
97	Toward a theory of precursors. <i>Physical Review D</i> , 2002, 66, .	4.7	15
98	Essay: Black Holes in the Lab?. <i>General Relativity and Gravitation</i> , 2002, 34, 1775-1779.	2.0	15
99	Higgs-flavon mixing and LHC phenomenology in a simplified model of broken flavor symmetry. <i>Physical Review D</i> , 2014, 90, .	4.7	15
100	THE CONFORMAL FACTOR AND THE COSMOLOGICAL CONSTANT. <i>International Journal of Modern Physics A</i> , 1990, 05, 3811-3829.	1.5	13
101	Is String Theory a Theory of Quantum Gravity?. <i>Foundations of Physics</i> , 2013, 43, 115-139.	1.3	13
102	The gravitational S-matrix: Erice lectures. , 2013, , .		13
103	Hairy black holes in string theory. <i>Physical Review D</i> , 1994, 50, 6422-6426.	4.7	12
104	Observational strong gravity and quantum black hole structure. <i>International Journal of Modern Physics D</i> , 2016, 25, 1644014.	2.1	12
105	Conformal techniques in string theory and string field theory. <i>Physics Reports</i> , 1988, 170, 167-212.	25.6	11
106	Gauge-invariant observables in gravity and electromagnetism: Black hole backgrounds and null dressings. <i>Physical Review D</i> , 2020, 102, .	4.7	9
107	Holography and unitarity. <i>Journal of High Energy Physics</i> , 2020, 2020, 1.	4.7	8
108	Punctures on super Riemann surfaces. <i>Communications in Mathematical Physics</i> , 1992, 143, 355-370.	2.2	7

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109	Quantum information or entanglement transfer between subsystems. <i>Physical Review A</i> , 2018, 98, .	2.5	7
110	Schrödinger evolution of two-dimensional black holes. <i>Journal of High Energy Physics</i> , 2021, 2021, 1.	4.7	6
111	SPONTANEOUS FACT VIOLATION. <i>Modern Physics Letters A</i> , 1990, 05, 635-643.	1.2	5
112	Schrödinger evolution of the Hawking state. <i>Physical Review D</i> , 2020, 102, .	4.7	5
113	Generalized asymptotics for gauge fields. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	4.7	4
114	Black Holes and Other Clues to the Quantum Structure of Gravity. <i>Galaxies</i> , 2021, 9, 16.	3.0	3
115	Unraveling the physics behind modified Higgs couplings: LHC versus a Higgs factory. <i>Physical Review D</i> , 2013, 88, .	4.7	2
116	Constraints on a fine-grained AdS/CFT correspondence. <i>Physical Review D</i> , 2016, 94, .	4.7	2
117	Analogue of the Aharonov-Bohm Effect for Black Holes and Strings. , 1991, , .		0
118	AXION-INDUCED TOPOLOGY CHANGE IN QUANTUM GRAVITY AND STRING THEORY. , 1993, , 370-387.		0