

# Steven Carlip

## List of Publications by Year in descending order

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73  
papers

4,324  
citations

159585

30  
h-index

114465

63  
g-index

76  
all docs

76  
docs citations

76  
times ranked

1472  
citing authors

#	ARTICLE	IF	CITATIONS
1	The (2 + 1)-dimensional black hole. <i>Classical and Quantum Gravity</i> , 1995, 12, 2853-2879.	4.0	446
2	Black Hole Entropy from Conformal Field Theory in Any Dimension. <i>Physical Review Letters</i> , 1999, 82, 2828-2831.	7.8	361
3	Entropy from conformal field theory at Killing horizons. <i>Classical and Quantum Gravity</i> , 1999, 16, 3327-3348.	4.0	275
4	Quantum gravity: a progress report. <i>Reports on Progress in Physics</i> , 2001, 64, 885-942.	20.1	262
5	Conformal field theory, (2 + 1)-dimensional gravity and the BTZ black hole. <i>Classical and Quantum Gravity</i> , 2005, 22, R85-R123.	4.0	231
6	Statistical mechanics of the (2+1)-dimensional black hole. <i>Physical Review D</i> , 1995, 51, 632-637.	4.7	205
7	What we don't know about BTZ black hole entropy. <i>Classical and Quantum Gravity</i> , 1998, 15, 3609-3625.	4.0	181
8	Cosmological topologically massive gravitons and photons. <i>Classical and Quantum Gravity</i> , 2009, 26, 075008.	4.0	142
9	Exact quantum scattering in 2 + 1 dimensional gravity. <i>Nuclear Physics B</i> , 1989, 324, 106-122.	2.5	136
10	Black hole thermodynamics. <i>International Journal of Modern Physics D</i> , 2014, 23, 1430023.	2.1	119
11	The off-shell black hole. <i>Classical and Quantum Gravity</i> , 1995, 12, 1699-1704.	4.0	105
12	Near-Horizon Conformal Symmetry and Black Hole Entropy. <i>Physical Review Letters</i> , 2002, 88, 241301.	7.8	102
13	Dimension and dimensional reduction in quantum gravity. <i>Classical and Quantum Gravity</i> , 2017, 34, 193001.	4.0	93
14	Observables, gauge invariance, and time in (2+1)-dimensional quantum gravity. <i>Physical Review D</i> , 1990, 42, 2647-2654.	4.7	82
15	Quantum Gravity in 2 + 1 Dimensions: The Case of a Closed Universe. <i>Living Reviews in Relativity</i> , 2005, 8, 1.	26.7	81
16	Spontaneous Dimensional Reduction in Short-Distance Quantum Gravity?. , 2009, , .		70
17	Inducing Liouville theory from topologically massive gravity. <i>Nuclear Physics B</i> , 1991, 362, 111-124.	2.5	58
18	Dynamics of asymptotic diffeomorphisms in (2+1)-dimensional gravity. <i>Classical and Quantum Gravity</i> , 2005, 22, 3055-3060.	4.0	49

#	ARTICLE	IF	CITATIONS
19	Black Hole Entropy from Bondi-Metzner-Sachs Symmetry at the Horizon. <i>Physical Review Letters</i> , 2018, 120, 101301.	7.8	46
20	Symmetries, horizons, and black hole entropy. <i>General Relativity and Gravitation</i> , 2007, 39, 1519-1523.	2.0	45
21	Extremal and nonextremal Kerr/CFT correspondences. <i>Journal of High Energy Physics</i> , 2011, 2011, 1.	4.7	45
22	Effective Conformal Descriptions of Black Hole Entropy. <i>Entropy</i> , 2011, 13, 1355-1379.	2.2	41
23	Hiding the Cosmological Constant. <i>Physical Review Letters</i> , 2019, 123, 131302.	7.8	38
24	Gravitating topological matter in 2+1 dimensions. <i>Physical Review D</i> , 1991, 44, 424-428.	4.7	37
25	Vacuum Fluctuations and the Small Scale Structure of Spacetime. <i>Physical Review Letters</i> , 2011, 107, 021303.	7.8	37
26	(2+1)-dimensional Chern-Simons gravity as a Dirac square root. <i>Physical Review D</i> , 1992, 45, 3584-3590.	4.7	36
27	Dominant topologies in Euclidean quantum gravity. <i>Classical and Quantum Gravity</i> , 1998, 15, 2629-2638.	4.0	35
28	Horizon constraints and black-hole entropy. <i>Classical and Quantum Gravity</i> , 2005, 22, 1303-1311.	4.0	35
29	Spacetime Foam and the Cosmological Constant. <i>Physical Review Letters</i> , 1997, 79, 4071-4074.	7.8	34
30	Quantum gravity: A brief history of ideas and some prospects. <i>International Journal of Modern Physics D</i> , 2015, 24, 1530028.	2.1	33
31	Dimensional reduction in causal set gravity. <i>Classical and Quantum Gravity</i> , 2015, 32, 232001.	4.0	30
32	The sum over topologies in three-dimensional Euclidean quantum gravity. <i>Classical and Quantum Gravity</i> , 1993, 10, 207-218.	4.0	28
33	Black Hole Thermodynamics and Statistical Mechanics. <i>Lecture Notes in Physics</i> , 2009, , 89-123.	0.7	28
34	Measuring the metric in (2+1)-dimensional quantum gravity. <i>Classical and Quantum Gravity</i> , 1991, 8, 5-17.	4.0	27
35	Statistical mechanics and black hole thermodynamics. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1997, 57, 8-12.	0.4	26
36	Kinetic energy and the equivalence principle. <i>American Journal of Physics</i> , 1998, 66, 409-413.	0.7	26

#	ARTICLE	IF	CITATIONS
37	Near-horizon Bondi-Metzner-Sachs symmetry, dimensional reduction, and black hole entropy. <i>Physical Review D</i> , 2020, 101, .	4.7	26
38	Comparative quantizations of (2+1)-dimensional gravity. <i>Physical Review D</i> , 1995, 51, 5643-5653.	4.7	24
39	THREE-DIMENSIONAL TOPOLOGICAL FIELD THEORIES AND STRINGS. <i>Modern Physics Letters A</i> , 1991, 06, 171-181.	1.2	23
40	Modular group, operator ordering, and time in (2+1)-dimensional gravity. <i>Physical Review D</i> , 1993, 47, 4520-4524.	4.7	22
41	Peaks in the Hartle-Hawking wavefunction from sums over topologies. <i>Classical and Quantum Gravity</i> , 2004, 21, 729-741.	4.0	22
42	Lower bound on the spectral dimension near a black hole. <i>Physical Review D</i> , 2011, 84, .	4.7	21
43	Dimension and Dimensional Reduction in Quantum Gravity. <i>Universe</i> , 2019, 5, 83.	2.5	20
44	Topology change in (2+1)-dimensional gravity. <i>Journal of Mathematical Physics</i> , 1994, 35, 5477-5493.	1.1	19
45	Entropy versus action in the (2 + 1)-dimensional Hartle-Hawking wave function. <i>Physical Review D</i> , 1992, 46, 4387-4395.	4.7	18
46	Equivalent quantisations of (2+1)-dimensional gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 324, 299-302.	4.1	18
47	Black Hole Thermodynamics from Euclidean Horizon Constraints. <i>Physical Review Letters</i> , 2007, 99, 021301.	7.8	18
48	Effective conformal descriptions of black hole entropy: A review. <i>AIP Conference Proceedings</i> , 2012, , .	0.4	17
49	Spontaneous dimensional reduction in quantum gravity. <i>International Journal of Modern Physics D</i> , 2016, 25, 1643003.	2.1	16
50	Notes on the (2+1)-dimensional Wheeler-DeWitt equation. <i>Classical and Quantum Gravity</i> , 1994, 11, 31-39.	4.0	15
51	Black hole entropy and the problem of universality. <i>Journal of Physics: Conference Series</i> , 2007, 67, 012022.	0.4	13
52	Suppression of non-manifold-like sets in the causal set path integral. <i>Classical and Quantum Gravity</i> , 2018, 35, 024002.	4.0	13
53	SYMMETRIES, HORIZONS AND BLACK HOLE ENTROPY. <i>International Journal of Modern Physics D</i> , 2008, 17, 659-664.	2.1	11
54	Quantum modular group in (2+1)-dimensional gravity. <i>Physical Review D</i> , 1998, 59, .	4.7	10

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55	Spontaneous dimensional reduction?. , 2012, , .		10
56	A note on black hole entropy in loop quantum gravity. Classical and Quantum Gravity, 2015, 32, 155009.	4.0	10
57	The dynamics of supertranslations and superrotations in $2+1$ dimensions. Classical and Quantum Gravity, 2018, 35, 014001.	4.0	10
58	A phase space path integral for (2+1)-dimensional gravity. Classical and Quantum Gravity, 1995, 12, 2201-2207.	4.0	8
59	Do black holes constrain varying constants?. Nature, 2003, 421, 498-498.	27.8	8
60	Horizons, Constraints, and Black Hole Entropy. International Journal of Theoretical Physics, 2007, 46, 2192-2203.	1.2	8
61	Four-Dimensional Entropy from Three-Dimensional Gravity. Physical Review Letters, 2015, 115, 071302.	7.8	5
62	Black hole entropy, universality, and horizon constraints. Journal of Physics: Conference Series, 2006, 33, 73-82.	0.4	4
63	Lorentz invariance in shape dynamics. Classical and Quantum Gravity, 2015, 32, 015021.	4.0	4
64	Quantum fields, geometric fluctuations, and the structure of spacetime. Physical Review D, 2020, 102, .	4.7	4
65	A SHORT COMMENT ON THE JUPITER TIME-DELAY CONTROVERSIES. International Journal of Modern Physics D, 2006, 15, 291-293.	2.1	2
66	Quantum gravity: A brief history of ideas and some prospects. , 2017, , 325-347.		2
67	How to hide a cosmological constant. International Journal of Modern Physics D, 2019, 28, 1943004.	2.1	2
68	Carlip Replies:. Physical Review Letters, 2020, 125, 089002.	7.8	2
69	Midisuperspace foam and the cosmological constant. Classical and Quantum Gravity, 2022, 39, 025012.	4.0	2
70	A Schwarzian on the stretched horizon. General Relativity and Gravitation, 2022, 54, .	2.0	2
71	REMARKS ON THE "NEW REDSHIFT INTERPRETATION". Modern Physics Letters A, 1999, 14, 71-80.	1.2	1
72	Spacetime Foam, Midisuperspace, and the Cosmological Constant. Universe, 2021, 7, 495.	2.5	1

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73	Black hole thermodynamics. , 2017, , 415-465.		0