Sean M Carroll

List of Publications by Year
in descending order

68	12,491	136885 32	118793 62
papers	citations	h-index	g-index

72	72	72	5193
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Is cosmic speed-up due to new gravitational physics?. Physical Review D, 2004, 70, .	1.6	1,827
2	The Cosmological Constant. Living Reviews in Relativity, 2001, 4, 1.	8.2	1,695
3	The Cosmological Constant. Annual Review of Astronomy and Astrophysics, 1992, 30, 499-542.	8.1	1,244
4	Limits on a Lorentz- and parity-violating modification of electrodynamics. Physical Review D, 1990, 41, 1231-1240.	1.6	1,040
5	Can the dark energy equation-of-state parameterwbe less thanâ^'1?. Physical Review D, 2003, 68, .	1.6	967
6	Quintessence and the Rest of the World: Suppressing Long-Range Interactions. Physical Review Letters, 1998, 81, 3067-3070.	2.9	888
7	Noncommutative Field Theory and Lorentz Violation. Physical Review Letters, 2001, 87, 141601.	2.9	764
8	Supernova Limits on the Cosmic Equation of State. Astrophysical Journal, 1998, 509, 74-79.	1.6	660
9	Cosmology of generalized modified gravity models. Physical Review D, 2005, 71, .	1.6	505
10	Dark matter and dark radiation. Physical Review D, 2009, 79, .	1.6	294
11	Imprints of a primordial preferred direction on the microwave background. Physical Review D, 2007, 75, .	1.6	276
12	Lorentz-violating vector fields slow the universe down. Physical Review D, 2004, 70, .	1.6	269
13	A hemispherical power asymmetry from inflation. Physical Review D, 2008, 78, .	1.6	151
14	Modified-source gravity and cosmological structure formation. New Journal of Physics, 2006, 8, 323-323.	1.2	135
15	Einstein equivalence principle and the polarization of radio galaxies. Physical Review D, 1991, 43, 3789-3793.	1.6	127
16	Infrared images of the transiting disk in the Îµ Aurigae system. Nature, 2010, 464, 870-872.	13.7	124
17	Superhorizon perturbations and the cosmic microwave background. Physical Review D, 2008, 78, .	1.6	111
18	Space from Hilbert space: Recovering geometry from bulk entanglement. Physical Review D, 2017, 95, .	1.6	106

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19	Can we be tricked into thinking thatwis less thanâˆ’1?. Physical Review D, 2005, 71, .	1.6	83
20	Aether compactification. Physical Review D, 2008, 78, .	1.6	78
21	Consistent effective theory of long-wavelength cosmological perturbations. Physical Review D, 2014, 90, .	1.6	78
22	Classical stabilization of homogeneous extra dimensions. Physical Review D, 2002, 66, .	1.6	73
23	Instabilities in the aether. Physical Review D, 2009, 79, .	1.6	56
24	Consistency conditions for an AdS multiscale entanglement renormalization ansatz correspondence. Physical Review D, 2015, 91, .	1.6	49
25	Models of baryogenesis via spontaneous Lorentz violation. Physical Review D, 2006, 73, .	1.6	47
26	Testing the Friedmann equation: The expansion of the universe during big-bang nucleosynthesis. Physical Review D, 2002, 65, .	1.6	46
27	Attractor solutions in scalar-field cosmology. Physical Review D, 2013, 88, .	1.6	46
28	Dark-Matter-Induced Violation of the Weak Equivalence Principle. Physical Review Letters, 2009, 103, 011301.	2.9	42
29	How many<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>e</mml:mi></mml:mrow></mml:math>-folds should we expect from high-scale inflation?. Physical Review D, 2014, 90, .	1.6	42
30	Interpreting Epsilon Aurigae. Astrophysical Journal, 1991, 367, 278.	1.6	42
31	Is our Universe natural?. Nature, 2006, 440, 1132-1136.	13.7	33
32	Lorentz violation in Goldstone gravity. Physical Review D, 2009, 80, .	1.6	33
33	Translational invariance and the anisotropy of the cosmic microwave background. Physical Review D, 2010, 81, .	1.6	33
34	Bulk entanglement gravity without a boundary: Towards finding Einsteinâ€™s equation in Hilbert space. Physical Review D, 2018, 97, .	1.6	31
35	The Hilbert space of quantum gravity is locally finite-dimensional. International Journal of Modern Physics D, 2017, 26, 1743013.	0.9	27
36	What is the entropy in entropic gravity?. Physical Review D, 2016, 93, .	1.6	26

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37	Can we live in a self-tuning universe?. Physical Review D, 2001, 64, .	1.6	25
38	Does inflation provide natural initial conditions for the universe. General Relativity and Gravitation, 2005, 37, 1671-1674.	0.7	25
39	Why Boltzmann Brains do not Fluctuate into Existence from the de Sitter Vacuum. , 0, , 228-240.		24
40	Implications of a scalar dark force for terrestrial experiments. Physical Review D, 2010, 81, .	1.6	23
41	Cosmic equilibration: A holographic no-hair theorem from the generalized second law. Physical Review D, 2018, 97, .	1.6	23
42	Mad-Dog Everettianism: Quantum Mechanics at Its Most Minimal. The Frontiers Collection, 2019, , 95-104.	0.1	23
43	de Sitter space as a tensor network: Cosmic no-hair, complementarity, and complexity. Physical Review D, 2017, 96, .	1.6	22
44	Why Boltzmann Brains Are Bad. , 2020, , 7-20.		22
45	Sigma-model aether. Physical Review D, 2009, 79, .	1.6	20
46	Branches of the black hole wave function need not contain firewalls. Physical Review D, 2018, 97, .	1.6	20
47	DOES INFLATION PROVIDE NATURAL INITIAL CONDITIONS FOR THE UNIVERSE?. International Journal of Modern Physics D, 2005, 14, 2335-2339.	0.9	16
48	DeÂSitter Space Without Dynamical Quantum Fluctuations. Foundations of Physics, 2016, 46, 702-735.	0.6	16
49	A nonlocal approach to the cosmological constant problem. Physical Review D, 2017, 95, .	1.6	15
50	Out of equilibrium: understanding cosmological evolution to lower-entropy states. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 024-024.	1.9	14
51	Quantum mereology: Factorizing Hilbert space into subsystems with quasiclassical dynamics. Physical Review A, 2021, 103, .	1.0	14
52	INTRODUCTION TO COSMOLOGY. , 2004, , 703-793.		12
53	Dark matter is real. Nature Physics, 2006, 2, 653-654.	6.5	11
54	Bayesian second law of thermodynamics. Physical Review E, 2016, 94, 022102.	0.8	10

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55	Filling in the background. Nature, 2003, 422, 26-27.	13.7	9
56	Energy Non-conservation in Quantum Mechanics. Foundations of Physics, 2021, 51, 1.	0.6	9
57	WHY (ALMOST ALL) COSMOLOGISTS ARE ATHEISTS. Faith and Philosophy, 2005, 22, 622-635.	0.1	7
58	How decoherence affects the probability of slow-roll eternal inflation. Physical Review D, 2017, 96, .	1.6	7
59	An astrophysical constraint. Nature, 2003, 424, 1007-1008.	13.7	4
60	Insignificance. Nature, 2004, 429, 27-27.	13.7	4
61	How to Recover a Qubit That Has Fallen into a Black Hole. Physical Review Letters, 2015, 115, 261302.	2.9	4
62	Dark matter with density-dependent interactions. Physical Review D, 2012, 86, .	1.6	3
63	Quantum decimation in Hilbert space: Coarse graining without structure. Physical Review A, 2018, 97, .	1.0	3
64	TASI Lectures: Cosmology for String Theorists. , 2001, , .		3
65	The Hilbert space of quantum gravity is locally finite-dimensional. International Journal of Modern Physics D, 0, , 1743013.	0.9	1
66	The string's the thing. New Scientist, 2006, 191, 58-59.	0.0	0
67	WHAT DO WE REALLY KNOW ABOUT THE EXPANSION OF THE UNIVERSE?. , 2002, , .		0
68	Why Not?. , 0, , 105-111.		0