

# Sean M Carroll

## List of Publications by Year in Descending Order

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**Version:** 2024-04-28

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

61  
papers

10,578  
citations

31  
h-index

72  
g-index

72  
ext. papers

11,446  
ext. citations

8.9  
avg, IF

6.46  
L-index

#	Paper	IF	Citations
61	Quantum mereology: Factorizing Hilbert space into subsystems with quasiclassical dynamics. <i>Physical Review A</i> , <b>2021</b> , 103,	2.6	7
60	Energy Non-conservation in Quantum Mechanics. <i>Foundations of Physics</i> , <b>2021</b> , 51, 1	1.2	1
59	Why Boltzmann Brains Are Bad <b>2020</b> , 7-20		1
58	Mad-Dog Everettianism: Quantum Mechanics at Its Most Minimal. <i>The Frontiers Collection</i> , <b>2019</b> , 95-104	0.3	9
57	Cosmic equilibration: A holographic no-hair theorem from the generalized second law. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	12
56	Bulk entanglement gravity without a boundary: Towards finding Einstein's equation in Hilbert space. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	20
55	Quantum decimation in Hilbert space: Coarse graining without structure. <i>Physical Review A</i> , <b>2018</b> , 97,	2.6	1
54	Branches of the black hole wave function need not contain firewalls. <i>Physical Review D</i> , <b>2018</b> , 97,	4.9	14
53	Space from Hilbert space: Recovering geometry from bulk entanglement. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	69
52	How decoherence affects the probability of slow-roll eternal inflation. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	6
51	A nonlocal approach to the cosmological constant problem. <i>Physical Review D</i> , <b>2017</b> , 95,	4.9	13
50	de Sitter space as a tensor network: Cosmic no-hair, complementarity, and complexity. <i>Physical Review D</i> , <b>2017</b> , 96,	4.9	13
49	The Hilbert space of quantum gravity is locally finite-dimensional. <i>International Journal of Modern Physics D</i> , <b>2017</b> , 26, 1743013	2.2	17
48	What is the entropy in entropic gravity?. <i>Physical Review D</i> , <b>2016</b> , 93,	4.9	16
47	De Sitter Space Without Dynamical Quantum Fluctuations. <i>Foundations of Physics</i> , <b>2016</b> , 46, 702-735	1.2	12
46	Bayesian second law of thermodynamics. <i>Physical Review E</i> , <b>2016</b> , 94, 022102	2.4	5
45	How to Recover a Qubit That Has Fallen into a Black Hole. <i>Physical Review Letters</i> , <b>2015</b> , 115, 261302	7.4	3

44	Consistency conditions for an AdS multiscale entanglement renormalization ansatz correspondence. <i>Physical Review D</i> , <b>2015</b> , 91,	4.9	37
43	How many e-folds should we expect from high-scale inflation?. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	28
42	Consistent effective theory of long-wavelength cosmological perturbations. <i>Physical Review D</i> , <b>2014</b> , 90,	4.9	61
41	Attractor solutions in scalar-field cosmology. <i>Physical Review D</i> , <b>2013</b> , 88,	4.9	38
40	Does the Universe Need God? <b>2012</b> , 185-197		4
39	Out of equilibrium: understanding cosmological evolution to lower-entropy states. <i>Journal of Cosmology and Astroparticle Physics</i> , <b>2012</b> , 2012, 024-024	6.4	8
38	Infrared images of the transiting disk in the epsilon Aurigae system. <i>Nature</i> , <b>2010</b> , 464, 870-2	50.4	102
37	Implications of a scalar dark force for terrestrial experiments. <i>Physical Review D</i> , <b>2010</b> , 81,	4.9	15
36	Translational invariance and the anisotropy of the cosmic microwave background. <i>Physical Review D</i> , <b>2010</b> , 81,	4.9	31
35	Dark-matter-induced violation of the weak equivalence principle. <i>Physical Review Letters</i> , <b>2009</b> , 103, 011301	7.4	34
34	Lorentz violation in Goldstone gravity. <i>Physical Review D</i> , <b>2009</b> , 80,	4.9	26
33	Sigma-model aether. <i>Physical Review D</i> , <b>2009</b> , 79,	4.9	17
32	Instabilities in the aether. <i>Physical Review D</i> , <b>2009</b> , 79,	4.9	50
31	Dark matter and dark radiation. <i>Physical Review D</i> , <b>2009</b> , 79,	4.9	236
30	A hemispherical power asymmetry from inflation. <i>Physical Review D</i> , <b>2008</b> , 78,	4.9	141
29	Aether compactification. <i>Physical Review D</i> , <b>2008</b> , 78,	4.9	60
28	Superhorizon perturbations and the cosmic microwave background. <i>Physical Review D</i> , <b>2008</b> , 78,	4.9	102
27	Imprints of a primordial preferred direction on the microwave background. <i>Physical Review D</i> , <b>2007</b> , 75,	4.9	256

26	Modified-source gravity and cosmological structure formation. <i>New Journal of Physics</i> , <b>2006</b> , 8, 323-323	2.9	116
25	Models of baryogenesis via spontaneous Lorentz violation. <i>Physical Review D</i> , <b>2006</b> , 73,	4.9	40
24	Is our Universe natural?. <i>Nature</i> , <b>2006</b> , 440, 1132-6	50.4	24
23	Can we be tricked into thinking that $w$ is less than $-1$ ?. <i>Physical Review D</i> , <b>2005</b> , 71,	4.9	77
22	Cosmology of generalized modified gravity models. <i>Physical Review D</i> , <b>2005</b> , 71,	4.9	460
21	Does inflation provide natural initial conditions for the universe. <i>General Relativity and Gravitation</i> , <b>2005</b> , 37, 1671-1674	2.3	20
20	WHY (ALMOST ALL) COSMOLOGISTS ARE ATHEISTS. <i>Faith and Philosophy</i> , <b>2005</b> , 22, 622-635	0.2	6
19	DOES INFLATION PROVIDE NATURAL INITIAL CONDITIONS FOR THE UNIVERSE?. <i>International Journal of Modern Physics D</i> , <b>2005</b> , 14, 2335-2339	2.2	15
18	Is cosmic speed-up due to new gravitational physics?. <i>Physical Review D</i> , <b>2004</b> , 70,	4.9	1613
17	Lorentz-violating vector fields slow the universe down. <i>Physical Review D</i> , <b>2004</b> , 70,	4.9	242
16	Insignificance. <i>Nature</i> , <b>2004</b> , 429, 27	50.4	2
15	INTRODUCTION TO COSMOLOGY <b>2004</b> , 703-793		9
14	Can the dark energy equation-of-state parameter $w$ be less than $-1$ ?. <i>Physical Review D</i> , <b>2003</b> , 68,	4.9	870
13	Classical stabilization of homogeneous extra dimensions. <i>Physical Review D</i> , <b>2002</b> , 66,	4.9	67
12	Testing the Friedmann equation: The expansion of the universe during big-bang nucleosynthesis. <i>Physical Review D</i> , <b>2002</b> , 65,	4.9	44
11	The Cosmological Constant. <i>Living Reviews in Relativity</i> , <b>2001</b> , 4, 1	32.5	1324
10	Can we live in a self-tuning universe?. <i>Physical Review D</i> , <b>2001</b> , 64,	4.9	25
9	Noncommutative field theory and Lorentz violation. <i>Physical Review Letters</i> , <b>2001</b> , 87, 141601	7.4	668

8	Quintessence and the Rest of the World: Suppressing Long-Range Interactions. <i>Physical Review Letters</i> , <b>1998</b> , 81, 3067-3070	7.4	732
7	Supernova Limits on the Cosmic Equation of State. <i>Astrophysical Journal</i> , <b>1998</b> , 509, 74-79	4.7	605
6	The Cosmological Constant. <i>Annual Review of Astronomy and Astrophysics</i> , <b>1992</b> , 30, 499-542	31.7	1109
5	Einstein equivalence principle and the polarization of radio galaxies. <i>Physical Review D</i> , <b>1991</b> , 43, 3789-3793	4.9	92
4	Interpreting Epsilon Aurigae. <i>Astrophysical Journal</i> , <b>1991</b> , 367, 278	4.7	37
3	Limits on a Lorentz- and parity-violating modification of electrodynamics. <i>Physical Review D</i> , <b>1990</b> , 41, 1231-1240	4.9	854
2	Why Boltzmann Brains do not Fluctuate into Existence from the de Sitter Vacuum 228-240		0
1	The Hilbert space of quantum gravity is locally finite-dimensional. <i>International Journal of Modern Physics D</i> , 1743013	2.2	1