

Robert R Caldwell

List of Publications by Year in descending order

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75
papers

6,443
citations

117625

34
h-index

95266

68
g-index

76
all docs

76
docs citations

76
times ranked

4265
citing authors

#	ARTICLE	IF	CITATIONS
1	Phantom Energy: Dark Energy with $w < -1$ Causes a Cosmic Doomsday. <i>Physical Review Letters</i> , 2003, 91, 071301.	7.8	1,808
2	Limits of Quintessence. <i>Physical Review Letters</i> , 2005, 95, 141301.	7.8	555
3	The Physics of Cosmic Acceleration. <i>Annual Review of Nuclear and Particle Science</i> , 2009, 59, 397-429.	10.2	411
4	Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. <i>Journal of High Energy Astrophysics</i> , 2022, 34, 49-211.	6.7	350
5	Large scale structure as a probe of gravitational slip. <i>Physical Review D</i> , 2008, 77, .	4.7	230
6	Dark-matter electric and magnetic dipole moments. <i>Physical Review D</i> , 2004, 70, .	4.7	224
7	Cosmological constraints on cosmic-string gravitational radiation. <i>Physical Review D</i> , 1992, 45, 3447-3468.	4.7	180
8	Cosmic microwave background and supernova constraints on quintessence: Concordance regions and target models. <i>Physical Review D</i> , 2004, 69, .	4.7	167
9	Testing general relativity with current cosmological data. <i>Physical Review D</i> , 2010, 81, .	4.7	149
10	Measuring the Speed of Sound of Quintessence. <i>Physical Review Letters</i> , 2002, 88, 121301.	7.8	132
11	Effects of Chern-Simons gravity on bodies orbiting the Earth. <i>Physical Review D</i> , 2008, 77, .	4.7	132
12	Spintessence! New models for dark matter and dark energy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002, 545, 17-22.	4.1	129
13	Dark-energy evolution across the cosmological-constant boundary. <i>Physical Review D</i> , 2005, 72, .	4.7	128
14	Constraints on a new post-general relativity cosmological parameter. <i>Physical Review D</i> , 2007, 76, .	4.7	126
15	Gravitational-Wave Cosmology across 29 Decades in Frequency. <i>Physical Review X</i> , 2016, 6, .	8.9	113
16	Cosmic Microwave Background Anisotropy Induced by Cosmic Strings on Angular Scales $\sim 15^\circ$. <i>Physical Review Letters</i> , 1997, 79, 2624-2627.	7.8	105
17	LISA for cosmologists: Calculating the signal-to-noise ratio for stochastic and deterministic sources. <i>Physical Review D</i> , 2019, 100, .	4.7	94
18	Sudden gravitational transition. <i>Physical Review D</i> , 2006, 73, .	4.7	87

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19	Early Quintessence in Light of the Wilkinson Microwave Anisotropy Probe. <i>Astrophysical Journal</i> , 2003, 591, L75-L78.	4.5	80
20	Sensitivity to a frequency-dependent circular polarization in an isotropic stochastic gravitational wave background. <i>Physical Review D</i> , 2017, 95, .	4.7	75
21	Cosmic shear of the microwave background: The curl diagnostic. <i>Physical Review D</i> , 2005, 71, .	4.7	70
22	Expansion, geometry, and gravity. <i>Journal of Cosmology and Astroparticle Physics</i> , 2004, 2004, 009-009.	5.4	66
23	Consequences of a cosmic scalar with kinetic coupling to curvature. <i>Classical and Quantum Gravity</i> , 2007, 24, 5573-5580.	4.0	57
24	Correlation of inflation-produced magnetic fields with scalar fluctuations. <i>Physical Review D</i> , 2011, 84, .	4.7	53
25	Shortcuts in the fifth dimension. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 511, 129-135.	4.1	50
26	Large-scale bulk motions complicate the Hubble diagram. <i>Physical Review D</i> , 2006, 73, .	4.7	47
27	Dark matter and dark energy. <i>Nature</i> , 2009, 458, 587-589.	27.8	47
28	Cross-correlation of cosmological birefringence with CMB temperature. <i>Physical Review D</i> , 2011, 84, .	4.7	41
29	Dust-polarization Maps and Interstellar Turbulence. <i>Astrophysical Journal</i> , 2017, 839, 91.	4.5	41
30	Non-Gaussian features of primordial magnetic fields in power-law inflation. <i>Physical Review D</i> , 2012, 85, .	4.7	40
31	Multiparameter investigation of gravitational slip. <i>Physical Review D</i> , 2009, 80, .	4.7	37
32	Gauge field preheating at the end of inflation. <i>Physical Review D</i> , 2013, 88, .	4.7	36
33	The QMAP and MAT/TOCO Experiments for Measuring Anisotropy in the Cosmic Microwave Background. <i>Astrophysical Journal, Supplement Series</i> , 2002, 140, 115-141.	7.7	34
34	Measuring dark energy spatial inhomogeneity with supernova data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 015-015.	5.4	34
35	Testing the quasar Hubble diagram with LISA standard sirens. <i>Physical Review D</i> , 2021, 103, .	4.7	30
36	Using a primordial gravitational wave background to illuminate new physics. <i>Physical Review D</i> , 2019, 100, .	4.7	29

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37	Cosmic birefringence test of the Hubble tension. <i>Physical Review D</i> , 2020, 101, .	4.7	27
38	Generation of structure on a cosmic-string network. <i>Physical Review Letters</i> , 1990, 65, 1705-1708.	7.8	25
39	Dark energy. <i>Physics World</i> , 2004, 17, 37-42.	0.0	25
40	The effect of mission duration on LISA science objectives. <i>General Relativity and Gravitation</i> , 2022, 54, 3.	2.0	24
41	No $H < 0$ assistance from assisted quintessence. <i>Physical Review D</i> , 2021, 103, .	4.7	20
42	Small-scale structure on a cosmic-string network. <i>Physical Review D</i> , 1991, 43, 3173-3187.	4.7	19
43	Green's functions for gravitational waves in FRW spacetimes. <i>Physical Review D</i> , 1993, 48, 4688-4692.	4.7	19
44	Non-Gaussianity from self-ordering scalar fields. <i>Physical Review D</i> , 2010, 81, .	4.7	18
45	Kinky structure on strings. <i>Physical Review D</i> , 1991, 43, R2457-R2460.	4.7	17
46	Chiral imprint of a cosmic gauge field on primordial gravitational waves. <i>Physical Review D</i> , 2015, 91, .	4.7	17
47	Cosmological consequences of classical flavor-space locked gauge field radiation. <i>Physical Review D</i> , 2015, 91, .	4.7	14
48	Lensed cosmic microwave background constraints on post-general-relativity parameters. <i>Physical Review D</i> , 2009, 79, .	4.7	13
49	On the evolution of scalar metric perturbations in an inflationary cosmology. <i>Classical and Quantum Gravity</i> , 1996, 13, 2437-2447.	4.0	12
50	Dark energy scaling from dark matter to acceleration. <i>Physical Review D</i> , 2014, 90, .	4.7	12
51	CBR temperature fluctuations induced by gravitational waves in a spatially closed inflationary universe. <i>Physical Review D</i> , 1995, 51, 1553-1562.	4.7	11
52	Quintessence. <i>Physics World</i> , 2000, 13, 31-38.	0.0	11
53	Brief history of curvature. <i>Physical Review D</i> , 2013, 87, .	4.7	11
54	Echoes from the Big Bang. <i>Scientific American</i> , 2001, 284, 38-43.	1.0	10

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55	Constraints on cosmic strings due to black holes formed from collapsed cosmic string loops. <i>Physical Review D</i> , 1993, 48, 2581-2586.	4.7	9
56	Cosmic time slip: Testing gravity on supergalactic scales with strong-lensing time delays. <i>Physical Review D</i> , 2019, 100, .	4.7	9
57	No very large scale structure in an open universe. <i>Physical Review D</i> , 1995, 52, 3248-3264.	4.7	8
58	Second-order weak lensing from modified gravity. <i>Physical Review D</i> , 2011, 84, .	4.7	8
59	A Simple Method for Computing the Nonlinear Mass Correlation Function with Implications for Stable Clustering. <i>Astrophysical Journal</i> , 2001, 547, L93-L96.	4.5	7
60	Millimeter-Wavelength Galactic Observations with the Mobile Anisotropy Telescope. <i>Astronomical Journal</i> , 2002, 123, 1978-1985.	4.7	5
61	Freezing out early dark energy. <i>Physical Review D</i> , 2013, 88, .	4.7	5
62	Gravitational wave gauge field dynamics. <i>International Journal of Modern Physics D</i> , 2017, 26, 1742005.	2.1	5
63	Formation of Kinks. <i>Annals of the New York Academy of Sciences</i> , 1991, 631, 76-87.	3.8	4
64	Perspectives on Dark Energy. <i>Space Science Reviews</i> , 2009, 148, 347-362.	8.1	3
65	Relic cosmological vector fields and inflationary gravitational waves. <i>Physical Review D</i> , 2021, 104, .	4.7	2
66	THE IMPRINT OF DARK ENERGY. <i>Modern Physics Letters A</i> , 2004, 19, 1063-1070.	1.2	1
67	Dark Energy Phenomena as Gigaparsec Voids: Constraints due to Spectral Distortion. , 2010, , .		1
68	Cosmic parity violation due to a flavor-space locked gauge field. <i>International Journal of Modern Physics D</i> , 2016, 25, 1640011.	2.1	1
69	Fudge factors in the physics of the universe. <i>Physics World</i> , 1996, 9, 50-52.	0.0	0
70	Long-lived quintessential scalar hair. <i>Classical and Quantum Gravity</i> , 2006, 23, 7257-7271.	4.0	0
71	Electro- and Magnetostatics of a Cosmic Pseudoscalar Field Coupled to Electromagnetism. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2009, 194, 202-205.	0.4	0
72	$\tilde{a}f\tilde{a}f^{1/4}\tilde{a},\tilde{a}f\tilde{z}\tilde{a},\tilde{a}f^{1/4}\tilde{a}\tilde{a}f\tilde{a}f^{1/4}\tilde{a},\tilde{a},\tilde{a}f\tilde{a}f\tilde{a},\tilde{a}f^{1/4}$. <i>Nature Digest</i> , 2009, 6, 28-31.	0.0	0

#	ARTICLE	IF	CITATIONS
73	A gravitational puzzle. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2011, 369, 4998-5002.	3.4	0
74	Dark Energy Models. , 2013, , .		0
75	Gravitational screening: Geometry and superposition. , 2013, , .		0