

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	The effect of mission duration on LISA science objectives. <i>General Relativity and Gravitation</i> , 2022, 54, 3.	2.0	24
2	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
3	Testing the quasar Hubble diagram with LISA standard sirens. <i>Physical Review D</i> , 2021, 103, .	4.7	30
4	No $\langle H \rangle > 0$ assistance from assisted quintessence. <i>Physical Review D</i> , 2021, 103, .	4.7	20
5	Relic cosmological vector fields and inflationary gravitational waves. <i>Physical Review D</i> , 2021, 104, .	4.7	2
6	Cosmic birefringence test of the Hubble tension. <i>Physical Review D</i> , 2020, 101, .	4.7	27
7	Cosmic time slip: Testing gravity on supergalactic scales with strong-lensing time delays. <i>Physical Review D</i> , 2019, 100, .	4.7	9
8	Using a primordial gravitational wave background to illuminate new physics. <i>Physical Review D</i> , 2019, 100, .	4.7	29
9	LISA for cosmologists: Calculating the signal-to-noise ratio for stochastic and deterministic sources. <i>Physical Review D</i> , 2019, 100, .	4.7	94
10	Dust-polarization Maps and Interstellar Turbulence. <i>Astrophysical Journal</i> , 2017, 839, 91.	4.5	41
11	Gravitational wave gauge field dynamics. <i>International Journal of Modern Physics D</i> , 2017, 26, 1742005.	2.1	5
12	Sensitivity to a frequency-dependent circular polarization in an isotropic stochastic gravitational wave background. <i>Physical Review D</i> , 2017, 95, .	4.7	75
13	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
14	Gravitational-Wave Cosmology across 29 Decades in Frequency. <i>Physical Review X</i> , 2016, 6, .	8.9	113
15	Chiral imprint of a cosmic gauge field on primordial gravitational waves. <i>Physical Review D</i> , 2015, 91, .	4.7	17
16	Cosmological consequences of classical flavor-space locked gauge field radiation. <i>Physical Review D</i> , 2015, 91, .	4.7	14
17	Dark energy scaling from dark matter to acceleration. <i>Physical Review D</i> , 2014, 90, .	4.7	12
18	Freezing out early dark energy. <i>Physical Review D</i> , 2013, 88, .	4.7	5

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19	Brief history of curvature. <i>Physical Review D</i> , 2013, 87, .	4.7	11
20	Dark Energy Models. , 2013, , .		0
21	Gauge field preheating at the end of inflation. <i>Physical Review D</i> , 2013, 88, .	4.7	36
22	Gravitational screening: Geometry and superposition. , 2013, , .		0
23	Non-Gaussian features of primordial magnetic fields in power-law inflation. <i>Physical Review D</i> , 2012, 85, .	4.7	40
24	Cross-correlation of cosmological birefringence with CMB temperature. <i>Physical Review D</i> , 2011, 84, .	4.7	41
25	Second-order weak lensing from modified gravity. <i>Physical Review D</i> , 2011, 84, .	4.7	8
26	Correlation of inflation-produced magnetic fields with scalar fluctuations. <i>Physical Review D</i> , 2011, 84, .	4.7	53
27	A gravitational puzzle. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 4998-5002.	3.4	0
28	Non-Gaussianity from self-ordering scalar fields. <i>Physical Review D</i> , 2010, 81, .	4.7	18
29	Dark Energy Phenomena as Gigaparsec Voids: Constraints due to Spectral Distortion. , 2010, , .		1
30	Measuring dark energy spatial inhomogeneity with supernova data. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 015-015.	5.4	34
31	Testing general relativity with current cosmological data. <i>Physical Review D</i> , 2010, 81, .	4.7	149
32	Multiparameter investigation of gravitational slip. <i>Physical Review D</i> , 2009, 80, .	4.7	37
33	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
34	Perspectives on Dark Energy. <i>Space Science Reviews</i> , 2009, 148, 347-362.	8.1	3
35	Dark matter and dark energy. <i>Nature</i> , 2009, 458, 587-589.	27.8	47
36	Lensed cosmic microwave background constraints on post-general-relativity parameters. <i>Physical Review D</i> , 2009, 79, .	4.7	13

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37	The Physics of Cosmic Acceleration. Annual Review of Nuclear and Particle Science, 2009, 59, 397-429.	10.2	411
38	Dark energy and the cosmological constant. Nature Digest, 2009, 6, 28-31.	0.0	0
39	Effects of Chern-Simons gravity on bodies orbiting the Earth. Physical Review D, 2008, 77, .	4.7	132
40	Large scale structure as a probe of gravitational slip. Physical Review D, 2008, 77, .	4.7	230
41	Consequences of a cosmic scalar with kinetic coupling to curvature. Classical and Quantum Gravity, 2007, 24, 5573-5580.	4.0	57
42	Constraints on a new post-general relativity cosmological parameter. Physical Review D, 2007, 76, .	4.7	126
43	Sudden gravitational transition. Physical Review D, 2006, 73, .	4.7	87
44	Large-scale bulk motions complicate the Hubble diagram. Physical Review D, 2006, 73, .	4.7	47
45	Long-lived quintessential scalar hair. Classical and Quantum Gravity, 2006, 23, 7257-7271.	4.0	0
46	Cosmic shear of the microwave background: The curl diagnostic. Physical Review D, 2005, 71, .	4.7	70
47	Limits of Quintessence. Physical Review Letters, 2005, 95, 141301.	7.8	555
48	Dark-energy evolution across the cosmological-constant boundary. Physical Review D, 2005, 72, .	4.7	128
49	Expansion, geometry, and gravity. Journal of Cosmology and Astroparticle Physics, 2004, 2004, 009-009.	5.4	66
50	Dark-matter electric and magnetic dipole moments. Physical Review D, 2004, 70, .	4.7	224
51	Cosmic microwave background and supernova constraints on quintessence: Concordance regions and target models. Physical Review D, 2004, 69, .	4.7	167
52	THE IMPRINT OF DARK ENERGY. Modern Physics Letters A, 2004, 19, 1063-1070.	1.2	1
53	Dark energy. Physics World, 2004, 17, 37-42.	0.0	25
54	Phantom Energy: Dark Energy with $w < -1$ Causes a Cosmic Doomsday. Physical Review Letters, 2003, 91, 071301.	7.8	1,808

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55	Early Quintessence in Light of the Wilkinson Microwave Anisotropy Probe. <i>Astrophysical Journal</i> , 2003, 591, L75-L78.	4.5	80
56	Measuring the Speed of Sound of Quintessence. <i>Physical Review Letters</i> , 2002, 88, 121301.	7.8	132
57	Millimeter-Wavelength Galactic Observations with the Mobile Anisotropy Telescope. <i>Astronomical Journal</i> , 2002, 123, 1978-1985.	4.7	5
58	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
59	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
60	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
61	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
62	Echoes from the Big Bang. <i>Scientific American</i> , 2001, 284, 38-43.	1.0	10
63	Quintessence. <i>Physics World</i> , 2000, 13, 31-38.	0.0	11
64	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
65	Fudge factors in the physics of the universe. <i>Physics World</i> , 1996, 9, 50-52.	0.0	0
66	On the evolution of scalar metric perturbations in an inflationary cosmology. <i>Classical and Quantum Gravity</i> , 1996, 13, 2437-2447.	4.0	12
67	No very large scale structure in an open universe. <i>Physical Review D</i> , 1995, 52, 3248-3264.	4.7	8
68	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
69	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
70	Green's functions for gravitational waves in FRW spacetimes. <i>Physical Review D</i> , 1993, 48, 4688-4692.	4.7	19
71	Cosmological constraints on cosmic-string gravitational radiation. <i>Physical Review D</i> , 1992, 45, 3447-3468.	4.7	180
72	Formation of Kinks. <i>Annals of the New York Academy of Sciences</i> , 1991, 631, 76-87.	3.8	4

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73	Kinky structure on strings. Physical Review D, 1991, 43, R2457-R2460.	4.7	17
74	Small-scale structure on a cosmic-string network. Physical Review D, 1991, 43, 3173-3187.	4.7	19
75	Generation of structure on a cosmic-string network. Physical Review Letters, 1990, 65, 1705-1708.	7.8	25