

Richard Easther

List of Publications by Year in descending order

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94
papers

5,784
citations

61984

43
h-index

76900

74
g-index

94
all docs

94
docs citations

94
times ranked

2237
citing authors

#	ARTICLE	IF	CITATIONS
1	Gravitational collapse in the postinflationary Universe. <i>Physical Review D</i> , 2022, 105, .	4.7	22
2	Dynamical friction from ultralight dark matter. <i>Physical Review D</i> , 2022, 105, .	4.7	12
3	Schrödinger-Poisson solitons: Perturbation theory. <i>Physical Review D</i> , 2022, 105, .	4.7	20
4	The distribution of vacua in random landscape potentials. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 029-029.	5.4	5
5	Formation of inflaton halos after inflation. <i>Physical Review D</i> , 2021, 103, .	4.7	19
6	Inflaton clusters and inflaton stars. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 030-030.	5.4	23
7	Simulating Ultralight Dark Matter in Chapel. , 2020, , .		3
8	Simulating mixed fuzzy and cold dark matter. <i>Physical Review D</i> , 2020, 102, .	4.7	46
9	The core-cusp problem revisited: ULDM vs. CDM. <i>Publications of the Astronomical Society of Australia</i> , 2020, 37, .	3.4	20
10	Lighting the Dark: Evolution of the Postinflationary Universe. <i>Physical Review Letters</i> , 2020, 124, 061301.	7.8	38
11	GUT-scale primordial black holes: mergers and gravitational waves. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 052-052.	5.4	28
12	Stellar accelerations and the galactic gravitational field. <i>Publications of the Astronomical Society of Australia</i> , 2019, 36, .	3.4	18
13	PyUltraLight: a pseudo-spectral solver for ultralight dark matter dynamics. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 027-027.	5.4	45
14	Expectations for inflationary observables: simple or natural?. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 032-032.	5.4	5
15	Ultracompact Minihalos as Probes of Inflationary Cosmology. <i>Physical Review Letters</i> , 2016, 117, 141102.	7.8	31
16	Testing for new physics: neutrinos and the primordial power spectrum. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 022-022.	5.4	22
17	Designing and testing inflationary models with Bayesian networks. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 049-049.	5.4	15
18	Signatures of the very early Universe: Inflation, spatial curvature, and large scale anomalies. <i>Physical Review D</i> , 2015, 91, .	4.7	10

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19	Gravitational Wave Consistency Relations for Multifield Inflation. <i>Physical Review Letters</i> , 2015, 114, 031301.	7.8	28
20	Learn-as-you-go acceleration of cosmological parameter estimates. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 005-005.	5.4	5
21	MULTIMODECODE: an efficient numerical solver for multifield inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 005-005.	5.4	34
22	Inflating an inhomogeneous universe. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 041-041.	5.4	23
23	Planck constraints on monodromy inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 037-037.	5.4	64
24	The Knotted Sky I: Planck constraints on the primordial power spectrum. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 052-052.	5.4	26
25	The Knotted Sky II: does BICEP2 require a nontrivial primordial power spectrum?. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 053-053.	5.4	32
26	Supersymmetry, nonthermal dark matter, and precision cosmology. <i>Physical Review D</i> , 2014, 89, .	4.7	42
27	Simple Predictions from Multifield Inflationary Models. <i>Physical Review Letters</i> , 2014, 112, 161302.	7.8	54
28	Gravitational waves from oscillon preheating. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	95
29	Initial conditions and sampling for multifield inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 027-027.	5.4	19
30	Constraining monodromy inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 018-018.	5.4	60
31	Large Scale Anomalies in the Microwave Background: Causation and Correlation. <i>Physical Review Letters</i> , 2013, 111, 261301.	7.8	6
32	Bayesian analysis of inflation. II. Model selection and constraints on reheating. <i>Physical Review D</i> , 2012, 85, .	4.7	109
33	Bayesian analysis of inflation. III. Slow roll reconstruction using model selection. <i>Physical Review D</i> , 2012, 86, .	4.7	39
34	Oscillons after Inflation. <i>Physical Review Letters</i> , 2012, 108, 241302.	7.8	197
35	Bayesian analysis of inflation: Parameter estimation for single field models. <i>Physical Review D</i> , 2011, 83, .	4.7	80
36	Constraining holographic inflation with WMAP. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 030-030.	5.4	20

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37	Delayed reheating and the breakdown of coherent oscillations. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 027-027.	5.4	64
38	Inflation and the scale dependent spectral index: prospects and strategies. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 021-021.	5.4	124
39	Caching and interpolated likelihoods: accelerating cosmological Monte Carlo Markov chains. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 016-016.	5.4	4
40	Inflaton fragmentation and oscillon formation in three dimensions. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 001-001.	5.4	93
41	PSpectRe: a pseudo-spectral code for (P)reheating. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 025-025.	5.4	49
42	Grand Unification Scale Primordial Black Holes: Consequences and Constraints. Physical Review Letters, 2009, 103, 111303.	7.8	60
43	Generating Gravitational Waves After Inflation. Nuclear Physics, Section B, Proceedings Supplements, 2009, 194, 33-38.	0.4	0
44	$\delta\ell$ -in-in formalism and cosmological perturbations. Physical Review D, 2009, 80, .	4.7	64
45	New mechanism for bubble nucleation: Classical transitions. Physical Review D, 2009, 80, .	4.7	43
46	Cosmology with many light scalar fields: Stochastic inflation and loop corrections. Physical Review D, 2009, 79, .	4.7	66
47	Probing Inflation with CMB Polarization. , 2009, , .		252
48	Fine-tuning criteria for inflation and the search for primordial gravitational waves. Physical Review D, 2008, 78, .	4.7	12
49	Gravitational waves from the end of inflation: Computational strategies. Physical Review D, 2008, 77, .	4.7	54
50	Primordial black holes, eternal inflation, and the inflationary parameter space after WMAP5. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 024.	5.4	56
51	Constraining inflation. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 047.	5.4	31
52	Thermal inflation and the gravitational wave background. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 013.	5.4	28
53	The eternal sunshine of the spotless mind. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 012.	5.4	1
54	Generation and characterization of large non-Gaussianities in single field inflation. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 010.	5.4	262

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55	Neutrinos and future concordance cosmologies. Journal of Physics: Conference Series, 2008, 136, 022044.	0.4	2
56	Large non-Gaussianities in single-field inflation. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 023-023.	5.4	286
57	Non-Gaussianities in multi-field inflation. Journal of Cosmology and Astroparticle Physics, 2007, 2007, 020-020.	5.4	124
58	Gravitational Wave Production at the End of Inflation. Physical Review Letters, 2007, 99, 221301.	7.8	183
59	Recovering the inflationary potential and primordial power spectrum with a slow roll prior: methodology and application to WMAP three year data. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 002-002.	5.4	70
60	Cosmology from random multifield potentials. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 013-013.	5.4	80
61	The Lyth Bound and the end of inflation. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 004-004.	5.4	47
62	Implications of a running spectral index for slow roll inflation. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 010-010.	5.4	43
63	Stochastic gravitational wave production after inflation. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 010-010.	5.4	166
64	Slow roll reconstruction: constraints on inflation from the 3 year WMAP data set. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 017-017.	5.4	71
65	Counting pockets with world lines in eternal inflation. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 016-016.	5.4	53
66	Random matrices and the spectrum of N-flation. Journal of Cosmology and Astroparticle Physics, 2006, 2006, 018-018.	5.4	131
67	Observing trans-Planckian signatures in the cosmic microwave background. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 009-009.	5.4	39
68	String windings in the early universe. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 009-009.	5.4	34
69	Multiple inflation, cosmic string networks and the string landscape. Journal of High Energy Physics, 2005, 2005, 067-067.	4.7	79
70	Boundary effective field theory and trans-Planckian perturbations: astrophysical implications. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 001-001.	5.4	44
71	Hubble slow roll expansion for multifield inflation. Physical Review D, 2005, 72, .	4.7	18
72	Brane gases in the early universe: thermodynamics and cosmology. Journal of Cosmology and Astroparticle Physics, 2004, 2004, 006-006.	5.4	18

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73	Tuning locked inflation: supergravity versus phenomenology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2004, 2004, 006-006.	5.4	6
74	Brane gas cosmology in M theory: Late time behavior. <i>Physical Review D</i> , 2003, 67, .	4.7	59
75	Imprints of short distance physics on inflationary cosmology. <i>Physical Review D</i> , 2003, 67, .	4.7	134
76	Monte Carlo reconstruction of the inflationary potential. <i>Physical Review D</i> , 2003, 67, .	4.7	74
77	Generic estimate of trans-Planckian modifications to the primordial power spectrum in inflation. <i>Physical Review D</i> , 2002, 66, .	4.7	189
78	Cosmological string gas on orbifolds. <i>Physical Review D</i> , 2002, 66, .	4.7	64
79	Sinc function representation and three-loop master diagrams. <i>Physical Review D</i> , 2001, 63, .	4.7	2
80	Inflation as a probe of short distance physics. <i>Physical Review D</i> , 2001, 64, .	4.7	245
81	Inflationary perturbations from a potential with a step. <i>Physical Review D</i> , 2001, 64, .	4.7	268
82	Fast evaluation of Feynman diagrams. <i>Physical Review D</i> , 2000, 61, .	4.7	13
83	Gravity, parametric resonance, and chaotic inflation. <i>Physical Review D</i> , 2000, 62, .	4.7	40
84	Chaotic dynamics and two-field inflation. <i>Classical and Quantum Gravity</i> , 1999, 16, 1637-1652.	4.0	22
85	Preheating and the Einstein field equations. <i>Physical Review D</i> , 1999, 59, .	4.7	50
86	Holography, Cosmology, and the Second Law of Thermodynamics. <i>Physical Review Letters</i> , 1999, 82, 4967-4970.	7.8	134
87	Vacuum fluctuations in axion-dilaton cosmologies. <i>Physical Review D</i> , 1997, 56, 874-888.	4.7	101
88	An inflationary model with an exact perturbation spectrum. <i>Classical and Quantum Gravity</i> , 1996, 13, 1775-1781.	4.0	35
89	Tree-level string cosmology. <i>Physical Review D</i> , 1996, 53, 4247-4256.	4.7	96
90	One-loop superstring cosmology and the nonsingular universe. <i>Physical Review D</i> , 1996, 54, 7252-7260.	4.7	108

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91	Relativistic (an)harmonic oscillator. American Journal of Physics, 1994, 62, 531-535.	0.7	30
92	Exact superstring motivated cosmological models. Classical and Quantum Gravity, 1993, 10, 2203-2215.	4.0	46
93	Calculating the critical temperature for Coleman-Weinberg GUTs. Journal of Physics G: Nuclear and Particle Physics, 1992, 18, 1869-1874.	3.6	2
94	Astrometric measurement and cosmology. , 0, , 395-400.		0