

Mark Trodden

List of Publications by Year in descending order

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133
papers

10,725
citations

53751

45
h-index

30058

103
g-index

133
all docs

133
docs citations

133
times ranked

7570
citing authors

#	ARTICLE	IF	CITATIONS
1	Chameleon early dark energy and the Hubble tension. <i>Physical Review D</i> , 2022, 105, .	1.6	51
2	Neutrino-assisted early dark energy: theory and cosmology. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 063.	1.9	27
3	Effective field theory for binary cosmic strings. <i>Physical Review D</i> , 2021, 104, .	1.6	1
4	Detecting the stochastic gravitational wave background from massive gravity with pulsar timing arrays. <i>Physical Review D</i> , 2021, 104, .	1.6	16
5	Shift symmetries, soft limits, and the double copy beyond leading order. <i>Physical Review D</i> , 2020, 102, .	1.6	17
6	Holographic two-point functions in the pseudoconformal universe. <i>Physical Review D</i> , 2020, 102, .	1.6	1
7	Early Dark Energy from Massive Neutrinos as a Natural Resolution of the Hubble Tension. <i>Physical Review Letters</i> , 2020, 124, 161301.	2.9	159
8	Non-canonical kinetic structures in the swampland. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 049-049.	1.9	6
9	Baryogenesis via gravitational spontaneous symmetry breaking. <i>Physical Review D</i> , 2019, 100, .	1.6	3
10	Quantum fine-tuning in stringy quintessence models. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 797, 134878.	1.5	15
11	Shapes of gravity: tensor non-Gaussianity and massive spin-2 fields. <i>Journal of High Energy Physics</i> , 2019, 2019, 1.	1.6	50
12	Higher-derivative operators and effective field theory for general scalar-tensor theories. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 031-031.	1.9	38
13	The classical double copy in maximally symmetric spacetimes. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	91
14	Field theories and fluids for an interacting dark sector. <i>Physical Review D</i> , 2018, 97, .	1.6	9
15	Finding structure in the dark: Coupled dark energy, weak lensing, and the mildly nonlinear regime. <i>Physical Review D</i> , 2018, 97, .	1.6	10
16	Radiation of scalar modes and the classical double copy. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	1.6	26
17	Oscillons in higher-derivative effective field theories. <i>Physical Review D</i> , 2018, 98, .	1.6	10
18	Void lensing as a test of gravity. <i>Physical Review D</i> , 2018, 98, .	1.6	35

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19	Multimessenger time delays from lensed gravitational waves. <i>Physical Review D</i> , 2017, 95, .	1.6	43
20	WKB approximation and tunneling in theories with noncanonical kinetic terms. <i>Physical Review D</i> , 2017, 96, .	1.6	0
21	Baryogenesis via dark matter-induced symmetry breaking in the early Universe. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 774, 183-188.	1.5	7
22	Aspects of Galileon non-renormalization. <i>Journal of High Energy Physics</i> , 2016, 2016, 1.	1.6	47
23	Solitons in generalized Galileon theories. <i>Physical Review D</i> , 2016, 94, .	1.6	8
24	Supersymmetric k-defects. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 755, 498-503.	1.5	9
25	Constructing Galileons. <i>Journal of Physics: Conference Series</i> , 2015, 631, 012013.	0.3	2
26	Electroweak vacuum angle at finite temperature and implications for baryogenesis. <i>Physical Review D</i> , 2015, 92, .	1.6	0
27	Holographic CFTs on maximally symmetric spaces: Correlators, integral transforms, and applications. <i>Physical Review D</i> , 2015, 92, .	1.6	10
28	How likely are constituent quanta to initiate inflation?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015, 749, 425-430.	1.5	22
29	Einstein gravity, massive gravity, multi-gravity and nonlinear realizations. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	19
30	Holography for a non-inflationary early universe. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	1.6	6
31	Beyond the cosmological standard model. <i>Physics Reports</i> , 2015, 568, 1-98.	10.3	859
32	Spontaneously broken gauge theories and the coset construction. <i>Physical Review D</i> , 2014, 90, .	1.6	18
33	Galileons coupled to massive gravity: general analysis and cosmological solutions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 008-008.	1.9	6
34	Massive Gravity Coupled to Galileons is Ghost-Free. <i>Physical Review Letters</i> , 2013, 111, 061107.	2.9	32
35	Cosmologies of extended massive gravity. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 725, 1-5.	1.5	45
36	Cosmological perturbations of massive gravity coupled to DBI Galileons. <i>Classical and Quantum Gravity</i> , 2013, 30, 184006.	1.5	20

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37	Retarded Green's function of a Vainshtein system and Galileon waves. <i>Physical Review D</i> , 2013, 87, .	1.6	37
38	Cosmological perturbations in extended massive gravity. <i>Physical Review D</i> , 2013, 88, .	1.6	61
39	Galileon forces in the Solar System. <i>Physical Review D</i> , 2013, 88, .	1.6	23
40	Visible and dark matter from a first-order phase transition in a baryon-symmetric universe. <i>Journal of Cosmology and Astroparticle Physics</i> , 2012, 2012, 044-044.	1.9	53
41	Dark matter with density-dependent interactions. <i>Physical Review D</i> , 2012, 86, .	1.6	3
42	Gauged galileons from branes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 714, 115-119.	1.5	20
43	Covariant master theory for novel Galilean invariant models and massive gravity. <i>Physical Review D</i> , 2012, 86, .	1.6	49
44	Galileons as Wess-Zumino terms. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	1.6	86
45	Generalizing Galileons. <i>Classical and Quantum Gravity</i> , 2011, 28, 204003.	1.5	76
46	Stability and superluminality of spherical DBI Galileon solutions. <i>Physical Review D</i> , 2011, 83, .	1.6	61
47	Cosmic acceleration and the challenge of modifying gravity. <i>Journal of Physics: Conference Series</i> , 2011, 284, 012004.	0.3	1
48	Some adventures in the search for a modified gravity explanation of cosmic acceleration. <i>General Relativity and Gravitation</i> , 2011, 43, 3367-3379.	0.7	3
49	Symmetries for Galileons and DBI scalars on curved space. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 017-017.	1.9	117
50	Galileons on cosmological backgrounds. <i>Journal of Cosmology and Astroparticle Physics</i> , 2011, 2011, 004-004.	1.9	29
51	Instabilities of spherical solutions with multiple Galileons and S^2 O(N) symmetry. <i>Physical Review D</i> , 2011, 83, 045011.	1.6	22
52	Tackling higher derivative ghosts with the Euclidean path integral. <i>Physical Review D</i> , 2011, 83, .	1.6	41
53	Screening bulk curvature in the presence of large brane tension. <i>Physical Review D</i> , 2011, 83, .	1.6	10
54	New Class of Effective Field Theories from Embedded Branes. <i>Physical Review Letters</i> , 2011, 106, 231102.	2.9	82

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55	Scalar kinks in warped extra dimensions. Physical Review D, 2010, 82, .	1.6	5
56	Distinguishing k -defects from their canonical twins. Physical Review D, 2010, 82, .	1.6	54
57	Cascading cosmology. Physical Review D, 2010, 81, .	1.6	36
58	Vortex scattering and intercommuting cosmic strings on a noncommutative spacetime. Physical Review D, 2010, 81, .	1.6	1
59	Multifield Galileons and higher codimension branes. Physical Review D, 2010, 82, .	1.6	156
60	Can cosmic parallax distinguish between anisotropic cosmologies?. Physical Review D, 2009, 80, .	1.6	15
61	Extra-dimensional cosmology with domain-wall branes. Journal of High Energy Physics, 2009, 2009, 035-035.	1.6	26
62	Where does cosmological perturbation theory break down?. Classical and Quantum Gravity, 2009, 26, 185002.	1.5	7
63	Non-Gaussian Signatures from the Postinflationary Early Universe. Physical Review Letters, 2009, 103, 251301.	2.9	8
64	Approaches to understanding cosmic acceleration. Reports on Progress in Physics, 2009, 72, 096901.	8.1	290
65	COSMIC ACCELERATION AND MODIFIED GRAVITY. , 2009, , 191-200.		0
66	Adiabatic instability in coupled dark energy/dark matter models. Physical Review D, 2008, 78, .	1.6	101
67	Existence and stability of nontrivial scalar field configurations in orbifolded extra dimensions. Physical Review D, 2008, 77, .	1.6	6
68	The adiabatic instability on cosmology's dark side. New Journal of Physics, 2008, 10, 033006.	1.2	39
69	Preheating in derivatively coupled inflation models. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 036.	1.9	17
70	Metastable Kinks in the Orbifold. Physical Review Letters, 2008, 100, 041602.	2.9	16
71	Constraining interactions in cosmology's dark sector. Physical Review D, 2008, 78, .	1.6	135
72	COSMIC ACCELERATION AND MODIFIED GRAVITY. International Journal of Modern Physics D, 2007, 16, 2065-2074.	0.9	13

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73	Dynamics of linear perturbations in $f(R)$ gravity. <i>Physical Review D</i> , 2007, 75, .	1.6	268
74	Ghosts, instabilities, and superluminal propagation in modified gravity models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2006, 2006, 005-005.	1.9	119
75	Dark matter self-interactions from higher dimensional gravity. <i>Physical Review D</i> , 2006, 73, .	1.6	0
76	Relaxing nucleosynthesis constraints on Brans-Dicke theories. <i>Physical Review D</i> , 2006, 74, .	1.6	53
77	Modified-source gravity and cosmological structure formation. <i>New Journal of Physics</i> , 2006, 8, 323-323.	1.2	135
78	Connecting the Dark Side and Fundamental Physics. <i>AIP Conference Proceedings</i> , 2006, , .	0.3	0
79	Can we be tricked into thinking that w is less than -1 ? <i>Physical Review D</i> , 2005, 71, .	1.6	83
80	Relaxing cosmological constraints on large extra dimensions. <i>Physical Review D</i> , 2005, 71, .	1.6	5
81	Cosmological constraints on a classical limit of quantum gravity. <i>Physical Review D</i> , 2005, 72, .	1.6	21
82	Cosmology of generalized modified gravity models. <i>Physical Review D</i> , 2005, 71, .	1.6	505
83	Baryogenesis after hyperextended inflation. <i>Physical Review D</i> , 2005, 72, .	1.6	13
84	Moduli stabilization and inflation using wrapped branes. <i>Physical Review D</i> , 2005, 72, .	1.6	31
85	Is cosmic speed-up due to new gravitational physics?. <i>Physical Review D</i> , 2004, 70, .	1.6	1,827
86	Topology in the little Higgs models. <i>Physical Review D</i> , 2004, 70, .	1.6	4
87	Baryogenesis and the new cosmology. <i>Pramana - Journal of Physics</i> , 2004, 62, 451-463.	0.9	9
88	INTRODUCTION TO COSMOLOGY. , 2004, , 703-793.		12
89	Can the dark energy equation-of-state parameter w be less than -1 ? <i>Physical Review D</i> , 2003, 68, .	1.6	967
90	Running of the scalar spectral index from inflationary models. <i>Physical Review D</i> , 2003, 68, .	1.6	60

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91	A new view of k-essence. Physical Review D, 2003, 67, .	1.6	146
92	The state of the dark energy equation of state. Physical Review D, 2003, 68, .	1.6	367
93	Model for neutrino masses and dark matter. Physical Review D, 2003, 67, .	1.6	280
94	Quintessential baryogenesis. Physical Review D, 2003, 67, .	1.6	42
95	The shapes of Dirichlet defects. Journal of High Energy Physics, 2003, 2003, 067-067.	1.6	8
96	Is the universe inflating? Dark energy and the future of the universe. Physical Review D, 2002, 66, .	1.6	8
97	Radion stabilization in compact hyperbolic extra dimensions. Physical Review D, 2002, 66, .	1.6	42
98	Weakly first order cosmological phase transitions and fermion production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 517, 7-12.	1.5	1
99	Large extra dimensions and cosmological problems. Physical Review D, 2001, 63, .	1.6	86
100	Black holes and instabilities of negative tension branes. Physical Review D, 2001, 64, .	1.6	15
101	Hybrid inflation and baryogenesis at the TeV scale. Physical Review D, 2001, 64, .	1.6	62
102	Homogeneity, Flatness, and "Large" Extra Dimensions. Physical Review Letters, 2001, 87, 231303.	2.9	90
103	DILUTING GRAVITY WITH COMPACT HYPERBOLOIDS. , 2001, , .		1
104	Domain wall junctions are 1/4 BPS states. Physical Review D, 2000, 61, .	1.6	70
105	Compact Hyperbolic Extra Dimensions: Branes, Kaluza-Klein Modes, and Cosmology. Physical Review Letters, 2000, 85, 928-931.	2.9	165
106	BPS domain wall junctions in infinitely large extra dimensions. Physical Review D, 2000, 62, .	1.6	21
107	Microphysics of Gauge Vortices and Baryogenesis. , 2000, , 273-277.		0
108	MAKING BARYONS BELOW THE ELECTROWEAK SCALE. , 2000, , .		1

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109	Dirichlet solitons in field theories. , 1999, , .		1
110	Charged false vacuum bubbles and the AdS/CFT correspondence. Journal of High Energy Physics, 1999, 1999, 020-020.	1.6	47
111	WHAT IS THE HOMOGENEITY OF OUR UNIVERSE TELLING US?. Modern Physics Letters A, 1999, 14, 1661-1665.	0.5	15
112	Observation of Cosmic Acceleration and Determining the Fate of the Universe. Physical Review Letters, 1999, 83, 1510-1513.	2.9	22
113	Creation and structure of baby universes in monopole collisions. Physical Review D, 1999, 59, .	1.6	15
114	Causality and cosmic inflation. Physical Review D, 1999, 61, .	1.6	115
115	Baryogenesis below The Electroweak Scale. Physical Review Letters, 1999, 83, 1502-1505.	2.9	97
116	RECENTPROGRESS INBARYOGENESIS. Annual Review of Nuclear and Particle Science, 1999, 49, 35-75.	3.5	480
117	Electroweak baryogenesis. Reviews of Modern Physics, 1999, 71, 1463-1500.	16.4	402
118	Topological inflation with multiple winding. Physical Review D, 1998, 57, 7186-7191.	1.6	20
119	Cosmic strings, zero modes, and supersymmetry breaking in non-Abelian $N=1$ gauge theories. Physical Review D, 1998, 57, 5184-5188.	1.6	24
120	Dirichlet topological defects. Physical Review D, 1998, 57, 5189-5194.	1.6	32
121	Phase transitions in the core of global embedded defects. Physical Review D, 1998, 58, .	1.6	10
122	CP violation from surface terms in the electroweak theory without fermions. Physical Review D, 1998, 58, .	1.6	2
123	SUPERSYMMETRIC STRINGS AND PERMIONIC ZERO MODES. , 1998, , .		0
124	Semianalytical approaches to local electroweak baryogenesis. Physical Review D, 1997, 56, 1250-1261.	1.6	21
125	$N = 1$ supersymmetric cosmic strings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1997, 405, 257-264.	1.5	96
126	Dynamical breaking of CPT symmetry in defect networks and baryogenesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 384, 175-179.	1.5	9

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127	Decaying vacuum energy and deflationary cosmology in open and closed universes. Physical Review D, 1996, 53, 4280-4286.	1.6	135
128	Cosmic vortons and particle physics constraints. Physical Review D, 1996, 54, 6059-6071.	1.6	111
129	Local and nonlocal defect-mediated electroweak baryogenesis. Physical Review D, 1996, 53, 4257-4266.	1.6	27
130	Particle physics models, topological defects and electroweak baryogenesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1995, 349, 131-136.	1.5	26
131	COSMIC STRINGS AND ELECTROWEAK SYMMETRY RESTORATION IN THE TWO-HIGGS DOUBLET MODEL. Modern Physics Letters A, 1994, 09, 2649-2659.	0.5	7
132	Cosmic strings and electroweak baryogenesis. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 335, 123-130.	1.5	51
133	Superconducting cosmic strings and primordial magnetic fields. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1992, 293, 287-293.	1.5	26