Lucas Lombriser

List of Publications by Year
in descending order

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		218677	206112
50	2,630	26	48
papers	citations	h-index	g-index

50	50	50	2617
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Breaking a dark degeneracy with gravitational waves. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 031-031.	5.4	301
2	Dark Energy Versus Modified Gravity. Annual Review of Nuclear and Particle Science, 2016, 66, 95-122.	10.2	291
3	Challenges to self-acceleration in modified gravity from gravitational waves and large-scale structure. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 382-385.	4.1	224
4	Testing general relativity with current cosmological data. Physical Review D, 2010, 81, .	4.7	149
5	Testing modified gravity at cosmological distances with LISA standard sirens. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 024-024.	5.4	129
6	Constraints on<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 537 Td (stretchy="false">)</mml:m Review D, 2012, 85, .	4.7	106
7	Cluster density profiles as a test of modified gravity. Physical Review D, 2012, 85, .	4.7	100
8	Testing chameleon gravity with the Coma cluster. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 013-013.	5.4	100
9	Constraining chameleon models with cosmology. Annalen Der Physik, 2014, 526, 259-282.	2.4	89
10	New horizons for fundamental physics with LISA. Living Reviews in Relativity, 2022, 25, .	26.7	82
11	Cosmological constraints on DGP braneworld gravity with brane tension. Physical Review D, 2009, 80, .	4.7	79
12	Modeling halo mass functions in chameleon<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 292 Td (stretchy="false">)</mml:m	4.7	75
13	Chameleon<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>f</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>R</mml:mi><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 252 Td (stretchy="false")	4.7	66
14	On the cosmological constant problem. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134804.	4.1	60
15	Halo model and halo properties in Galileon gravity cosmologies. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 029-029.	5.4	59
16	Halo modelling in chameleon theories. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 021-021.	5.4	59
17	Relativistic effects in galaxy clustering in a parametrized post-Friedmann universe. Physical Review D, 2013, 87, .	4.7	49
18	Finding Horndeski theories with Einstein gravity limits. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 006-006.	5.4	49

#	Article	IF	Citations
19	Cluster abundance in chameleonf(R) gravity I: toward an accurate halo mass function prediction. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 024-024.	5.4	44
20	Unscreening Modified Gravity in the Matter Power Spectrum. Physical Review Letters, 2015, 114, 251101.	7.8	34
21	A parametrisation of modified gravity on nonlinear cosmological scales. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 039-039.	5.4	33
22	Reconstructing Horndeski theories from phenomenological modified gravity and dark energy models on cosmological scales. Physical Review D, 2018, 98, .	4.7	33
23	Consistency of the local Hubble constant with the cosmic microwave background. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 803, 135303.	4.1	32
24	Classifying Linearly Shielded Modified Gravity Models in Effective Field Theory. Physical Review Letters, 2015, 114, 031101.	7.8	30
25	Semi-dynamical perturbations of unified dark energy. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 040-040.	5.4	27
26	On the road to perâ€‰cent accuracy IV: ReACT â€“ computing the non-linear power spectrum beyond Î›CDM. Monthly Notices of the Royal Astronomical Society, 2020, 498, 4650-4662.	4.4	27
27	Horndeski gravity and standard sirens. Physical Review D, 2020, 102, .	4.7	26
28	Consistency check ofΛCDMphenomenology. Physical Review D, 2011, 83, .	4.7	24
29	Dark degeneracy I: Dynamical or interacting dark energy?. Physics of the Dark Universe, 2020, 28, 100490.	4.9	24
30	Limitations on Standard Sirens tests of gravity from screening. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 013-013.	5.4	23
31	N-body simulations for parametrized modified gravity. Monthly Notices of the Royal Astronomical Society, 2020, 497, 1885-1894.	4.4	23
32	Reconstructing Horndeski models from the effective field theory of dark energy. Physical Review D, 2017, 96, .	4.7	22
33	Scalar and tensor gravitational waves. Physical Review D, 2021, 103, .	4.7	19
34	Easing cosmic tensions with an open and hotter universe. Physical Review D, 2021, 103, .	4.7	18
35	Constraints on decaying early modified gravity from cosmological observations. Physical Review D, 2016, 94, .	4.7	14
36	Parameterised post-Newtonian expansion in screened regions. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 031-031.	5.4	14

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37	On the road to per cent accuracy â€“ V. The non-linear power spectrum beyond Î›CDM with massive neutrinos and baryonic feedback. Monthly Notices of the Royal Astronomical Society, 2021, 508, 2479-2491.	4.4	13
38	Parametrizations for tests of gravity. International Journal of Modern Physics D, 2018, 27, 1848002.	2.1	12
39	Inherently stable effective field theory for dark energy and modified gravity. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 041-041.	5.4	11
40	Local self-tuning mechanism for the cosmological constant. Physical Review D, 2020, 102, .	4.7	11
41	Parameterised post-Newtonian formalism for the effective field theory of dark energy via screened reconstructed Horndeski theories. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 032-032.	5.4	11
42	Horndeski theories and beyond from higher dimensions. Classical and Quantum Gravity, 2021, 38, 025003.	4.0	9
43	Is there another coincidence problem at the reionization epoch?. Physical Review D, 2017, 96, .	4.7	7
44	Screening and degenerate kinetic self-acceleration from the nonlinear freedom of reconstructed Horndeski theories. Physical Review D, 2019, 100, .	4.7	6
45	Baryogenesis through asymmetric Hawking radiation from primordial black holes as dark matter. Physical Review D, 2021, 103, .	4.7	6
46	Effect of screening mechanisms on black hole binary inspiral waveforms. Physical Review D, 2022, 105, .	4.7	4
47	Late-time acceleration by a residual cosmological constant from sequestering vacuum energy in ultimate collapsed structures. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 065-065.	5.4	3
48	Exploring the self-tuning of the cosmological constant from Planck mass variation. Classical and Quantum Gravity, 2021, 38, 235003.	4.0	3
49	Parametrizations for Tests of Gravity. , 2019, , 35-65.		0
50	Scalar ÄŒerenkov radiation from high-energy cosmic rays. Physical Review D, 2022, 105, .	4.7	0