

Tsutomu Kobayashi

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

3,029
citations

186265

28
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155660

55
g-index

62
all docs

62
docs citations

62
times ranked

1422
citing authors

#	ARTICLE	IF	CITATIONS
1	Inflation Driven by the Galileon Field. <i>Physical Review Letters</i> , 2010, 105, 231302.	7.8	405
2	Horndeski theory and beyond: a review. <i>Reports on Progress in Physics</i> , 2019, 82, 086901.	20.1	340
3	Effective gravitational couplings for cosmological perturbations in the most general scalar-tensor theories with second-order field equations. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 706, 123-133.	4.1	207
4	Higgs G inflation. <i>Physical Review D</i> , 2011, 83, .	4.7	140
5	Vainshtein screening in a cosmological background in the most general second-order scalar-tensor theory. <i>Physical Review D</i> , 2012, 85, .	4.7	140
6	Breaking of Vainshtein screening in scalar-tensor theories beyond Horndeski. <i>Physical Review D</i> , 2015, 91, .	4.7	124
7	Black hole perturbation in the most general scalar-tensor theory with second-order field equations. II. The even-parity sector. <i>Physical Review D</i> , 2014, 89, .	4.7	118
8	Black hole perturbation in the most general scalar-tensor theory with second-order field equations: The odd-parity sector. <i>Physical Review D</i> , 2012, 85, .	4.7	115
9	Generic instabilities of nonsingular cosmologies in Horndeski theory: A no-go theorem. <i>Physical Review D</i> , 2016, 94, .	4.7	112
10	Effective scalar-tensor description of regularized Lovelock gravity in four dimensions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 013-013.	5.4	89
11	Generalized Higgs inflation. <i>Physical Review D</i> , 2012, 86, .	4.7	83
12	Primordial non-Gaussianity from G inflation. <i>Physical Review D</i> , 2011, 83, .	4.7	78
13	Primordial Non-Gaussianities of Gravitational Waves in the Most General Single-Field Inflation Model with Second-Order Field Equations. <i>Physical Review Letters</i> , 2011, 107, 211301.	7.8	77
14	Extended mimetic gravity: Hamiltonian analysis and gradient instabilities. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 038-038.	5.4	70
15	Extended cuscuton: formulation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 002-002.	5.4	66
16	Parity-violating gravity and GW170817. <i>Physical Review D</i> , 2018, 98, .	4.7	54
17	Instability of hairy black holes in shift-symmetric Horndeski theories. <i>Physical Review D</i> , 2016, 93, .	4.7	51
18	Testing general scalar-tensor gravity and massive gravity with cluster lensing. <i>Physical Review D</i> , 2013, 87, .	4.7	45

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19	Generalized multi-Galileons, covariantized new terms, and the no-go theorem for nonsingular cosmologies. <i>Physical Review D</i> , 2017, 95, .	4.7	44
20	Galilean creation of the inflationary universe. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 017-017.	5.4	43
21	Gauge dependence of gravitational waves generated at second order from scalar perturbations. <i>Physical Review D</i> , 2020, 101, .	4.7	41
22	Ultra slow-roll G inflation. <i>Physical Review D</i> , 2016, 94, .	4.7	38
23	General invertible transformation and physical degrees of freedom. <i>Physical Review D</i> , 2017, 95, .	4.7	37
24	Relativistic stars in degenerate higher-order scalar-tensor theories after GW170817. <i>Physical Review D</i> , 2018, 97, .	4.7	36
25	Multifield extension of G inflation. <i>Physical Review D</i> , 2013, 88, .	4.7	35
26	Generalized galilean genesis. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 057-057.	5.4	35
27	The most general second-order field equations of bi-scalar-tensor theory in four dimensions. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	31
28	Extended cuscuton as dark energy. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 004-004.	5.4	26
29	Matter bispectrum beyond Horndeski theories. <i>Physical Review D</i> , 2018, 97, .	4.7	24
30	Screening mechanism in degenerate higher-order scalar-tensor theories evading gravitational wave constraints. <i>Physical Review D</i> , 2019, 99, .	4.7	24
31	Graceful exit from Higgs G inflation. <i>Physical Review D</i> , 2013, 88, .	4.7	22
32	Cosmological matching conditions and galilean genesis in Horndeski's theory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 008-008.	5.4	18
33	Perturbations and quasinormal modes of black holes with time-dependent scalar hair in shift-symmetric scalar-tensor theories. <i>Physical Review D</i> , 2021, 103, .	4.7	17
34	General theory of cosmological perturbations in open and closed universes from the Horndeski action. <i>Physical Review D</i> , 2019, 99, .	4.7	15
35	Nanohertz gravitational waves from a null-energy-condition violation in the early universe. <i>Physical Review D</i> , 2020, 102, .	4.7	15
36	Universal instability of hairy black holes in Lovelock-Galileon theories in D dimensions. <i>Physical Review D</i> , 2016, 93, .	4.7	14

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37	Reheating and primordial gravitational waves in generalized Galilean genesis. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 018-018.	5.4	14
38	Scale-invariant perturbations from null-energy-condition violation: A new variant of Galilean genesis. Physical Review D, 2017, 95, .	4.7	14
39	Primordial non-Gaussianities of gravitational waves beyond Horndeski theories. Physical Review D, 2016, 93, .	4.7	13
40	Self-anisotropizing inflationary universe in Horndeski theory and beyond. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 058-058.	5.4	13
41	Constraining degenerate higher-order scalar-tensor theories with linear growth of matter density fluctuations. Physical Review D, 2019, 99, .	4.7	13
42	Primordial non-Gaussianities of scalar and tensor perturbations in general bounce cosmology: Evading the no-go theorem. Physical Review D, 2020, 101, .	4.7	12
43	Relativistic stars in a cubic Galileon universe. Physical Review D, 2020, 101, .	4.7	12
44	Revisiting slow-roll dynamics and the tensor tilt in general single-field inflation. Physical Review D, 2020, 101, .	4.7	11
45	Distinguishing modified gravity with just two tensorial degrees of freedom from general relativity: Black holes, cosmology, and matter coupling. Physical Review D, 2021, 104, .	4.7	11
46	Primordial tensor non-Gaussianities from general single-field inflation with non-Bunch-Davies initial states. Physical Review D, 2020, 102, .	4.7	10
47	Covariant Stückelberg analysis of de Rham-Gabadadze-Tolley massive gravity with a general fiducial metric. Physical Review D, 2014, 90, .	4.7	9
48	UV sensitive one-loop matter power spectrum in degenerate higher-order scalar-tensor theories. Physical Review D, 2020, 102, .	4.7	7
49	Stars disformally coupled to a shift-symmetric scalar field. Physical Review D, 2021, 104, .	4.7	7
50	Suppressing the primordial tensor amplitude without changing the scalar sector in quadratic curvature gravity. Physical Review D, 2015, 92, .	4.7	5
51	Anti-screening of the Galileon force around a disk center hole. Modern Physics Letters A, 2019, 34, 1950013.	1.2	4
52	Dynamics of inflation with mutually orthogonal vector fields in a closed universe. Physical Review D, 2021, 104, .	4.7	4
53	Perturbations of cosmological and black hole solutions in massive gravity and bi-gravity. Progress of Theoretical and Experimental Physics, 2016, 2016, 103E02.	6.6	3
54	Gravitational Wave Physics and Astronomy in the nascent era. Progress of Theoretical and Experimental Physics, 0, .	6.6	3

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55	Removing Ostrogradski's ghost from cosmological perturbations in $f(R, R^{1/4}, C^{1/4})$ gravity. Modern Physics Letters A, 2016, 31, 1650067.	1.2	1
56	BLACK HOLE PERTURBATION IN MODIFIED GRAVITY THEORIES. , 2015, , .		0
57	A new mechanism for freezing extra dimensions with higher-order curvature terms. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135857.	4.1	0
58	A Solution to the Graceful Exit Problem in Higgs G-Inflation. , 2014, , .		0
59	Matter Creation in Generalized Galilean Genesis. , 2017, , .		0
60	Generalized Galilean Genesis. , 2017, , .		0
61	Extended mimetic gravity: Hamiltonian analysis and gradient instabilities. , 2022, , .		0