Tsutomu Kobayashi

List of Publications by Year
in descending order

61 papers	3,029 citations	186265 28 h-index	155660 55 g-index
62 all docs	62 docs citations	62 times ranked	1422 citing authors

#	Article	IF	Citations
1	Extended mimetic gravity: Hamiltonian analysis and gradient instabilities. , 2022, , .		0
2	Perturbations and quasinormal modes of black holes with time-dependent scalar hair in shift-symmetric scalar-tensor theories. Physical Review D, 2021, 103, .	4.7	17
3	Dynamics of inflation with mutually orthogonal vector fields in a closed universe. Physical Review D, 2021, 104, .	4.7	4
4	Stars disformally coupled to a shift-symmetric scalar field. Physical Review D, 2021, 104, .	4.7	7
5	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
6	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
7	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
8	UV sensitive one-loop matter power spectrum in degenerate higher-order scalar-tensor theories. Physical Review D, 2020, 102, .	4.7	7
9	Relativistic stars in a cubic Galileon universe. Physical Review D, 2020, 101, .	4.7	12
10	Effective scalar-tensor description of regularized Lovelock gravity in four dimensions. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 013-013.	5.4	89
11	Revisiting slow-roll dynamics and the tensor tilt in general single-field inflation. Physical Review D, 2020, 101, .	4.7	11
12	Gauge dependence of gravitational waves generated at second order from scalar perturbations. Physical Review D, 2020, 101, .	4.7	41
13	Extended cuscuton as dark energy. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 004-004.	5.4	26
14	Primordial tensor non-Gaussianities from general single-field inflation with non-Bunch-Davies initial states. Physical Review D, 2020, 102, .	4.7	10
15	Nanohertz gravitational waves from a null-energy-condition violation in the early universe. Physical Review D, 2020, 102, .	4.7	15
16	Screening mechanism in degenerate higher-order scalar-tensor theories evading gravitational wave constraints. Physical Review D, 2019, 99, .	4.7	24
17	Horndeski theory and beyond: a review. Reports on Progress in Physics, 2019, 82, 086901.	20.1	340
18	General theory of cosmological perturbations in open and closed universes from the Horndeski action. Physical Review D, 2019, 99, .	4.7	15

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19	Anti-screening of the Galileon force around a disk center hole. Modern Physics Letters A, 2019, 34, 1950013.	1.2	4
20	Constraining degenerate higher-order scalar-tensor theories with linear growth of matter density fluctuations. Physical Review D, 2019, 99, .	4.7	13
21	Parity-violating gravity and GW170817. Physical Review D, 2018, 98, .	4.7	54
22	Extended cuscuton: formulation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 002-002.	5.4	66
23	Self-anisotropizing inflationary universe in Horndeski theory and beyond. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 058-058.	5.4	13
24	Matter bispectrum beyond Horndeski theories. Physical Review D, 2018, 97, .	4.7	24
25	Relativistic stars in degenerate higher-order scalar-tensor theories after GW170817. Physical Review D, 2018, 97, .	4.7	36
26	Generalized multi-Galileons, covariantized new terms, and the no-go theorem for nonsingular cosmologies. Physical Review D, 2017, 95, .	4.7	44
27	Scale-invariant perturbations from null-energy-condition violation: A new variant of Galilean genesis. Physical Review D, 2017, 95, .	4.7	14
28	General invertible transformation and physical degrees of freedom. Physical Review D, 2017, 95, .	4.7	37
29	Extended mimetic gravity: Hamiltonian analysis and gradient instabilities. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 038-038.	5.4	70
30	Matter Creation in Generalized Galilean Genesis. , 2017, , .		0
31	Generalized Galilean Genesis. , 2017, , .		0
32	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
33	Removing Ostrogradski's ghost from cosmological perturbations in f(R,Rμ½2,Cμ½ïƒ2) gravity. Modern Physics Letters A, 2016, 31, 1650067.	1.2	1
34	Generic instabilities of nonsingular cosmologies in Horndeski theory: A no-go theorem. Physical Review D, 2016, 94, .	4.7	112
35	Primordial non-Gaussianities of gravitational waves beyond Horndeski theories. Physical Review D, 2016, 93, .	4.7	13
36	Universal instability of hairy black holes in Lovelock-Galileon theories in D dimensions. Physical Review D, 2016, 93, .	4.7	14

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37	Instability of hairy black holes in shift-symmetric Horndeski theories. Physical Review D, 2016, 93, .	4.7	51
38	Ultra slow-roll G inflation. Physical Review D, 2016, 94, .	4.7	38
39	Reheating and primordial gravitational waves in generalized Galilean genesis. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 018-018.	5.4	14
40	BLACK HOLE PERTURBATION IN MODIFIED GRAVITY THEORIES. , 2015, , .		0
41	Suppressing the primordial tensor amplitude without changing the scalar sector in quadratic curvature gravity. Physical Review D, 2015, 92, .	4.7	5
42	The most general second-order field equations of bi-scalar-tensor theory in four dimensions. Journal of High Energy Physics, 2015, 2015, 1.	4.7	31
43	Galilean creation of the inflationary universe. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 017-017.	5.4	43
44	Generalized galilean genesis. Journal of Cosmology and Astroparticle Physics, 2015, 2015, 057-057.	5.4	35
45	Breaking of Vainshtein screening in scalar-tensor theories beyond Horndeski. Physical Review D, 2015, 91, .	4.7	124
46	Covariant StÃ¼ckelberg analysis of de Rham-Gabadadze-Tolley massive gravity with a general fiducial metric. Physical Review D, 2014, 90, .	4.7	9
47	Black hole perturbation in the most general scalar-tensor theory with second-order field equations. II. The even-parity sector. Physical Review D, 2014, 89, .	4.7	118
48	Cosmological matching conditions and galilean genesis in Horndeski's theory. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 008-008.	5.4	18
49	A Solution to the Graceful Exit Problem in Higgs G-Inflation. , 2014, , .		0
50	Testing general scalar-tensor gravity and massive gravity with cluster lensing. Physical Review D, 2013, 87, .	4.7	45
51	Multifield extension of G inflation. Physical Review D, 2013, 88, .	4.7	35
52	Graceful exit from Higgs G inflation. Physical Review D, 2013, 88, .	4.7	22
53	Vainshtein screening in a cosmological background in the most general second-order scalar-tensor theory. Physical Review D, 2012, 85, .	4.7	140
54	Black hole perturbation in the most general scalar-tensor theory with second-order field equations: The odd-parity sector. Physical Review D, 2012, 85, .	4.7	115

#	Article	IF	Citations
55	Generalized Higgs inflation. Physical Review D, 2012, 86, .	4.7	83
56	Primordial Non-Gaussianities of Gravitational Waves in the Most General Single-Field Inflation Model with Second-Order Field Equations. Physical Review Letters, 2011, 107, 211301.	7.8	77
57	Primordial non-Gaussianity from G inflation. Physical Review D, 2011, 83, .	4.7	78
58	Higgs G inflation. Physical Review D, 2011, 83, .	4.7	140
59	Effective gravitational couplings for cosmological perturbations in the most general scalar–tensor theories with second-order field equations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 706, 123-133.	4.1	207
60	Inflation Driven by the Galileon Field. Physical Review Letters, 2010, 105, 231302.	7.8	405
61	Gravitational Wave Physics and Astronomy in the nascent era. Progress of Theoretical and Experimental Physics, 0, , .	6.6	3