Xian Gao

List of Publications by Year
in descending order

48 papers	2,262 citations	361413 20 h-index	206112 48 g-index
48 all docs	48 docs citations	48 times ranked	1069 citing authors

#	Article	IF	Citations
1	Covariant $3+1$ correspondence of the spatially covariant gravity and the degeneracy conditions. Physical Review D, 2022, 105, .	4.7	7
2	Minimally modified gravity with an auxiliary constraint: A Hamiltonian construction. Physical Review D, 2021, 103, .	4.7	18
3	Higher derivative scalar-tensor monomials and their classification. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	3
4	Spatially covariant gravity with 2 degrees of freedom: Perturbative analysis. Physical Review D, 2021, 104, .	4.7	8
5	Higher derivative scalar-tensor theory and spatially covariant gravity: The correspondence. Physical Review D, 2020, 102, .	4.7	13
6	Propagation of gravitational waves in a cosmological background. Physical Review D, 2020, 101, .	4.7	37
7	Spatially covariant gravity theories with two tensorial degrees of freedom: The formalism. Physical Review D, 2020, 101, .	4.7	27
8	Higher derivative scalar-tensor theory from the spatially covariant gravity: a linear algebraic analysis. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 004-004.	5.4	8
9	Spatially covariant gravity with velocity of the lapse function: the Hamiltonian analysis. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 024-024.	5.4	34
10	Primordial perturbations and non-gaussianities in HoÅ™ava-Lifshitz gravity *. Chinese Physics C, 2019, 43, 075103.	3.7	5
11	Higher derivative scalar-tensor theory through a non-dynamical scalar field. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 006-006.	5.4	17
12	Spatially covariant gravity: Perturbative analysis and field transformations. Physical Review D, 2019, 99, .	4.7	19
13	Doubly coupled matter fields in massive bigravity. Chinese Physics C, 2018, 42, 075101.	3.7	1
14	Primordial gravitational waves and perturbations during an inhomogeneous inflation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 013-013.	5.4	1
15	Derivative couplings in massive bigravity. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 043-043.	5.4	6
16	Spatially covariant theories of gravity: disformal transformation, cosmological perturbations and the Einstein frame. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 014-014.	5.4	21
17	Covariant expansion of the gravitational StÃ¼ckelberg trick. Physical Review D, 2015, 91, .	4.7	3
18	Coupling between Galileon and massive gravity with composite metrics. Physical Review D, 2015, 92, .	4.7	8

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19	Towards general patterns of features in multi-field inflation. Journal of High Energy Physics, 2015, 2015, 1.	4.7	15
20	Non-Gaussianity excess problem in classical bouncing cosmologies. Physical Review D, 2015, 91, .	4.7	18
21	Covariant Stückelberg analysis of de Rham-Gabadadze-Tolley massive gravity with a general fiducial metric. Physical Review D, 2014, 90, .	4.7	9
22	Production of non-gaussianities through a positive spatial curvature bouncing phase. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 010-010.	5.4	13
23	Derivative interactions for a spin-2 field at cubic order. Physical Review D, 2014, 90, .	4.7	10
24	Unifying framework for scalar-tensor theories of gravity. Physical Review D, 2014, 90, .	4.7	145
25	Hamiltonian analysis of spatially covariant gravity. Physical Review D, 2014, 90, .	4.7	97
26	Oscillatory features in the curvature power spectrum after a sudden turn of the inflationary trajectory. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 023-023.	5.4	41
27	Coupling structure of multi-field primordial perturbations. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 039-039.	5.4	8
28	Full bispectra from primordial scalar and tensor perturbations in the most general single-field inflation model. Progress of Theoretical and Experimental Physics, 2013, 2013, 53E03-0.	6.6	28
29	Towards anisotropy-free and nonsingular bounce cosmology with scale-invariant perturbations. Physical Review D, 2013, 88, .	4.7	97
30	Influence of heavy modes on perturbations in multiple field inflation. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 040-040.	5.4	77
31	IR divergences in inflation and entropy perturbations. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 035-035.	5.4	30
32	From k-essence to generalized Galileons. Physical Review D, 2011, 84, .	4.7	845
33	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
34	Can relic superhorizon inhomogeneities be responsible for large-scale CMB anomalies?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 702, 12-15.	4.1	8
35	Testing gravity with non-Gaussianity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 702, 197-200.	4.1	7
36	Conserved cosmological perturbation in Galileon models. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 021-021.	5.4	55

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37	Inflation and primordial non-Gaussianities of â€œgeneralized Galileonsâ€. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 019-019.	5.4	107
38	On cross-correlations between curvature and isocurvature perturbations during inflation. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 019-019.	5.4	19
39	Fluctuations in a HoÅ™ava-Lifshitz bouncing cosmology. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 020-020.	5.4	54
40	On the primordial trispectrum from exchanging scalar modes in general multiple field inflationary models. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 035-035.	5.4	10
41	Cosmological perturbations in HoÅ™ava-Lifshitz gravity. Physical Review D, 2010, 81, .	4.7	69
42	Nonlinear CMB temperature anisotropy from gravitational perturbations. Physical Review D, 2010, 82, .	4.7	4
43	Primordial non-Gaussianities from the trispectra in multiple field inflationary models. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 007-007.	5.4	37
44	Primordial trispectrum from entropy perturbations in multifield DBI model. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 012-012.	5.4	45
45	Loop corrections to cosmological perturbations in multi-field inflationary models. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 042-042.	5.4	19
46	Reheating and cosmic string production. Nuclear Physics B, 2008, 800, 190-203.	2.5	4
47	Primordial non-Gaussianities of general multiple-field inflation. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 029.	5.4	62
48	Non-supersymmetric attractors in Born-Infeld black holes with a cosmological constant. Journal of High Energy Physics, 2007, 2007, 006-006.	4.7	16