

# Xian Gao

## List of Publications by Year in descending order

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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	From $k$ -essence to generalized Galileons. Physical Review D, 2011, 84, .	4.7	845
2	Unifying framework for scalar-tensor theories of gravity. Physical Review D, 2014, 90, .	4.7	145
3	Inflation and primordial non-Gaussianities of $\alpha$ -generalized Galileons. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 019-019.	5.4	107
4	Towards anisotropy-free and nonsingular bounce cosmology with scale-invariant perturbations. Physical Review D, 2013, 88, .	4.7	97
5	Hamiltonian analysis of spatially covariant gravity. Physical Review D, 2014, 90, .	4.7	97
6	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
7	Influence of heavy modes on perturbations in multiple field inflation. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 040-040.	5.4	77
8	Cosmological perturbations in Hořava-Lifshitz gravity. Physical Review D, 2010, 81, .	4.7	69
9	Primordial non-Gaussianities of general multiple-field inflation. Journal of Cosmology and Astroparticle Physics, 2008, 2008, 029.	5.4	62
10	Conserved cosmological perturbation in Galileon models. Journal of Cosmology and Astroparticle Physics, 2011, 2011, 021-021.	5.4	55
11	Fluctuations in a Hořava-Lifshitz bouncing cosmology. Journal of Cosmology and Astroparticle Physics, 2010, 2010, 020-020.	5.4	54
12	Primordial trispectrum from entropy perturbations in multifield DBI model. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 012-012.	5.4	45
13	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
14	Primordial non-Gaussianities from the trispectra in multiple field inflationary models. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 007-007.	5.4	37
15	Propagation of gravitational waves in a cosmological background. Physical Review D, 2020, 101, .	4.7	37
16	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
17	IR divergences in inflation and entropy perturbations. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 035-035.	5.4	30
18	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

#	ARTICLE	IF	CITATIONS
19	Spatially covariant gravity theories with two tensorial degrees of freedom: The formalism. <i>Physical Review D</i> , 2020, 101, .	4.7	27
20	Spatially covariant theories of gravity: disformal transformation, cosmological perturbations and the Einstein frame. <i>Journal of Cosmology and Astroparticle Physics</i> , 2016, 2016, 014-014.	5.4	21
21	Loop corrections to cosmological perturbations in multi-field inflationary models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 042-042.	5.4	19
22	On cross-correlations between curvature and isocurvature perturbations during inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 019-019.	5.4	19
23	Spatially covariant gravity: Perturbative analysis and field transformations. <i>Physical Review D</i> , 2019, 99, .	4.7	19
24	Non-Gaussianity excess problem in classical bouncing cosmologies. <i>Physical Review D</i> , 2015, 91, .	4.7	18
25	Minimally modified gravity with an auxiliary constraint: A Hamiltonian construction. <i>Physical Review D</i> , 2021, 103, .	4.7	18
26	Higher derivative scalar-tensor theory through a non-dynamical scalar field. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 006-006.	5.4	17
27	Non-supersymmetric attractors in Born-Infeld black holes with a cosmological constant. <i>Journal of High Energy Physics</i> , 2007, 2007, 006-006.	4.7	16
28	Towards general patterns of features in multi-field inflation. <i>Journal of High Energy Physics</i> , 2015, 2015, 1.	4.7	15
29	Production of non-gaussianities through a positive spatial curvature bouncing phase. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 010-010.	5.4	13
30	Higher derivative scalar-tensor theory and spatially covariant gravity: The correspondence. <i>Physical Review D</i> , 2020, 102, .	4.7	13
31	On the primordial trispectrum from exchanging scalar modes in general multiple field inflationary models. <i>Journal of Cosmology and Astroparticle Physics</i> , 2010, 2010, 035-035.	5.4	10
32	Derivative interactions for a spin-2 field at cubic order. <i>Physical Review D</i> , 2014, 90, .	4.7	10
33	Covariant Stückelberg analysis of de Rham-Gabadadze-Tolley massive gravity with a general fiducial metric. <i>Physical Review D</i> , 2014, 90, .	4.7	9
34	Can relic superhorizon inhomogeneities be responsible for large-scale CMB anomalies?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 702, 12-15.	4.1	8
35	Coupling structure of multi-field primordial perturbations. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 039-039.	5.4	8
36	Coupling between Galileon and massive gravity with composite metrics. <i>Physical Review D</i> , 2015, 92, .	4.7	8

#	ARTICLE	IF	CITATIONS
37	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
38	Spatially covariant gravity with 2 degrees of freedom: Perturbative analysis. Physical Review D, 2021, 104, .	4.7	8
39	Testing gravity with non-Gaussianity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 702, 197-200.	4.1	7
40	Covariant $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mrow}\langle \text{mml:mn}3\langle \text{mml:mn}\langle \text{mml:mo}\rangle+\langle \text{mml:mo}\langle \text{mml:mn}1\langle \text{mml:mn}\langle \text{mml:mrow}\langle \text{mml:math}\rangle$ correspondence of the spatially covariant gravity and the degeneracy conditions. Physical Review D, 2022, 105, .	4.7	7
41	Derivative couplings in massive bigravity. Journal of Cosmology and Astroparticle Physics, 2016, 2016, 043-043.	5.4	6
42	Primordial perturbations and non-gaussianities in Ho <sup>À</sup> ava-Lifshitz gravity *. Chinese Physics C, 2019, 43, 075103.	3.7	5
43	Reheating and cosmic string production. Nuclear Physics B, 2008, 800, 190-203.	2.5	4
44	Nonlinear CMB temperature anisotropy from gravitational perturbations. Physical Review D, 2010, 82, .	4.7	4
45	Covariant expansion of the gravitational St <sup>À</sup> ¼ckelberg trick. Physical Review D, 2015, 91, .	4.7	3
46	Higher derivative scalar-tensor monomials and their classification. Science China: Physics, Mechanics and Astronomy, 2021, 64, 1.	5.1	3
47	Doubly coupled matter fields in massive bigravity. Chinese Physics C, 2018, 42, 075101.	3.7	1
48	Primordial gravitational waves and perturbations during an inhomogeneous inflation. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 013-013.	5.4	1