

Takeshi Chiba

List of Publications by Year in descending order

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94
papers

6,732
citations

101543

36
h-index

58581

82
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95
all docs

95
docs citations

95
times ranked

3104
citing authors

#	ARTICLE	IF	CITATIONS
1	Spontaneous scalarization in scalar-tensor theories with conformal symmetry as an attractor. Progress of Theoretical and Experimental Physics, 2022, 2022, .	6.6	5
2	Current status of space gravitational wave antenna DECIGO and B-DECIGO. Progress of Theoretical and Experimental Physics, 2021, 2021, .	6.6	150
3	Disformal invariance of cosmological observables. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 003-003.	5.4	12
4	The effect of our local motion on the Sandage-Loeb test of the cosmic expansion. Publication of the Astronomical Society of Japan, 2020, 72, .	2.5	3
5	Space gravitational-wave antennas DECIGO and B-DECIGO. International Journal of Modern Physics D, 2019, 28, 1845001.	2.1	73
6	Reconstructing $f(R)$ gravity from the spectral index. Progress of Theoretical and Experimental Physics, 2018, 2018, .	6.6	3
7	Probing the Universe through the stochastic gravitational wave background. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 038-038.	5.4	77
8	The status of DECIGO. Journal of Physics: Conference Series, 2017, 840, 012010.	0.4	148
9	Spin distribution of primordial black holes. Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	54
10	Reconstructing the inflaton potential from the spectral index. , 2017, , .		0
11	Cosmological constraints on scalar-tensor gravity and the variation of the gravitational constant. Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	20
12	A note on geodesics in the Hayward metric. Progress of Theoretical and Experimental Physics, 2017, 2017, .	6.6	27
13	Planck constraints on scalar-tensor cosmology and the variation of the gravitational constant. Physical Review D, 2016, 93, .	4.7	22
14	Reconstructing the inflaton potential from the spectral index. Progress of Theoretical and Experimental Physics, 2015, 2015, 073E02.	6.6	32
15	Implications of the B -mode polarization measurement for direct detection of inflationary gravitational waves. Physical Review D, 2014, 90, .	4.7	29
16	Motion of charged particles around a weakly magnetized rotating black hole. Physical Review D, 2014, 90, .	4.7	29
17	Cosmological scaling solutions for multiple scalar fields. Physical Review D, 2014, 90, .	4.7	14
18	Conformal-frame (in)dependence of cosmological observations in scalar-tensor theory. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 040-040.	5.4	101

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19	Observational constraints on quintessence: Thawing, tracker, and scaling models. Physical Review D, 2013, 87, .	4.7	73
20	Shadows of multi-black holes: Analytic exploration. Physical Review D, 2012, 86, .	4.7	103
21	Prospects for direct detection of inflationary gravitational waves by next generation interferometric detectors. Physical Review D, 2011, 83, .	4.7	22
22	Runaway domain wall and space-time varying \hat{I} . Journal of Cosmology and Astroparticle Physics, 2011, 2011, 044-044.	5.4	13
23	Shadows of colliding black holes. Physical Review D, 2011, 84, .	4.7	33
24	The Constancy of the Constants of Nature: Updates. Progress of Theoretical Physics, 2011, 126, 993-1019.	2.0	68
25	The Japanese space gravitational wave antenna: DECIGO. Classical and Quantum Gravity, 2011, 28, 094011.	4.0	456
26	Gravitational waves from Q -ball formation. Physical Review D, 2010, 81, .	4.7	17
27	DECIGO and DECIGO pathfinder. Classical and Quantum Gravity, 2010, 27, 084010.	4.0	39
28	Slow-roll extended quintessence. Physical Review D, 2010, 81, .	4.7	15
29	Equation of state of tracker fields. Physical Review D, 2010, 81, .	4.7	22
30	Fate of thermal log type Q balls. Physical Review D, 2010, 82, .	4.7	9
31	DECIGO pathfinder. Classical and Quantum Gravity, 2009, 26, 094019.	4.0	18
32	Extended slow-roll conditions and primordial fluctuations: multiple scalar fields and generalized gravity. Journal of Cosmology and Astroparticle Physics, 2009, 2009, 019-019.	5.4	29
33	Slow-roll k -essence. Physical Review D, 2009, 80, .	4.7	62
34	Precision calculations of the gravitational wave background spectrum from inflation. Physical Review D, 2009, 79, .	4.7	87
35	Slow-roll thawing quintessence. Physical Review D, 2009, 79, .	4.7	58
36	DECIGO: The Japanese space gravitational wave antenna. Journal of Physics: Conference Series, 2009, 154, 012040.	0.4	30

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37	Laser-interferometric detectors for gravitational wave backgrounds at 100 MHz: Detector design and sensitivity. <i>Physical Review D</i> , 2008, 77, .	4.7	70
38	Extended slow-roll conditions and rapid-roll conditions. <i>Journal of Cosmology and Astroparticle Physics</i> , 2008, 2008, 021.	5.4	72
39	Initial conditions for vector inflation. <i>Journal of Cosmology and Astroparticle Physics</i> , 2008, 2008, 004.	5.4	20
40	Optimal location of two laser-interferometric detectors for gravitational wave backgrounds at 100 MHz. <i>Classical and Quantum Gravity</i> , 2008, 25, 225011.	4.0	8
41	Search for a Stochastic Background of 100-MHz Gravitational Waves with Laser Interferometers. <i>Physical Review Letters</i> , 2008, 101, 101101.	7.8	77
42	Reply to "Comment on "Solar System constraints to general relativity". <i>Physical Review D</i> , 2008, 77, .	4.7	3
43	A Null Test of the Cosmological Constant. <i>Progress of Theoretical Physics</i> , 2007, 118, 815-819.	2.0	8
44	Time variation of the proton-electron mass ratio and the fine structure constant with a runaway dilaton. <i>Physical Review D</i> , 2007, 75, .	4.7	21
45	Consistency relation in cosmology. <i>Physical Review D</i> , 2007, 75, .	4.7	33
46	Solar System constraints to general relativity. <i>Physical Review D</i> , 2007, 75, .	4.7	283
47	Effective search templates for a primordial stochastic gravitational wave background. <i>Physical Review D</i> , 2007, 76, .	4.7	9
48	Weak Lensing of Galaxy Clusters in Modified Newtonian Dynamics. <i>Astrophysical Journal</i> , 2007, 671, 45-52.	4.5	28
49	Constraints on scalar field models of dark energy. <i>Physical Review D</i> , 2006, 73, .	4.7	92
50	The Japanese space gravitational wave antenna "DECIGO". <i>Classical and Quantum Gravity</i> , 2006, 23, S125-S131.	4.0	388
51	Classifying the future of universes with dark energy. <i>Classical and Quantum Gravity</i> , 2005, 22, 3745-3758.	4.0	13
52	Generalized gravity and a ghost. <i>Journal of Cosmology and Astroparticle Physics</i> , 2005, 2005, 008-008.	5.4	138
53	Numerical solutions of inflating higher dimensional global defects. <i>Physical Review D</i> , 2005, 71, .	4.7	4
54	Reheating after quintessential inflation and gravitational waves. <i>Classical and Quantum Gravity</i> , 2004, 21, 1761-1771.	4.0	100

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55	Does positronium form in the universe?. Journal of Cosmology and Astroparticle Physics, 2004, 2004, 003-003.	5.4	4
56	WMAP constraints on scalar-tensor cosmology and the variation of the gravitational constant. Physical Review D, 2004, 69, .	4.7	72
57	Baryogenesis in a Flat Direction with Neither Baryon nor Lepton Charge. Physical Review Letters, 2004, 92, 011301.	7.8	42
58	1/R gravity and scalar-tensor gravity. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 575, 1-3.	4.1	570
59	Supernova Cosmology and the Fine Structure Constant. Progress of Theoretical Physics, 2003, 110, 195-199.	2.0	9
60	Observational consequences of the evolution of primordial fluctuations in scalar-tensor cosmology. Physical Review D, 2002, 66, .	4.7	36
61	Tracking k-essence. Physical Review D, 2002, 66, .	4.7	204
62	Quintessence Cosmology and Varying Λ . Progress of Theoretical Physics, 2002, 107, 631-636.	2.0	77
63	Lens Model Degeneracy and Cosmological Tests by Strong Gravitational Lensing. Progress of Theoretical Physics, 2002, 107, 625-630.	2.0	8
64	Feasibility of reconstructing the quintessential potential using SNIa data. AIP Conference Proceedings, 2001, , .	0.4	1
65	Determining the Equation of State of the Expanding Universe Using a New Independent Variable. Astrophysical Journal, 2001, 550, 1-6.	4.5	7
66	Extended quintessence and its late-time domination. Physical Review D, 2001, 64, .	4.7	47
67	Gravitational Lens Statistics and the Density Profile of Dark Halos. Astrophysical Journal, 2001, 563, 489-496.	4.5	27
68	Feasibility of reconstructing the quintessential potential using type Ia supernova data. Physical Review D, 2000, 62, .	4.7	78
69	Scalar-tensor gravity in a two 3-brane system. Physical Review D, 2000, 62, .	4.7	33
70	Kinetically driven quintessence. Physical Review D, 2000, 62, .	4.7	1,163
71	Numerical study of inhomogeneous pre-big-bang inflationary cosmology. Physical Review D, 1999, 59, .	4.7	8
72	Extended open inflation. Physical Review D, 1999, 61, .	4.7	20

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73	Quintessence, the gravitational constant, and gravity. <i>Physical Review D</i> , 1999, 60, .	4.7	286
74	Determining the equation of state of the expanding Universe: inverse problem in cosmology. <i>Monthly Notices of the Royal Astronomical Society</i> , 1999, 306, 696-700.	4.4	105
75	Apparent horizon formation and hoop conjecture in nonaxisymmetric spaces. <i>Physical Review D</i> , 1999, 60, .	4.7	10
76	Resolving the singularity of the Hawking–Turok type instanton. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 442, 59-62.	4.1	1
77	Observational tests of χ -matter models. <i>Monthly Notices of the Royal Astronomical Society</i> , 1998, 301, 72-80.	4.4	58
78	Imprints of the metrically coupled dilaton on density perturbations in inflationary cosmology. <i>Nuclear Physics B</i> , 1998, 530, 304-324.	2.5	17
79	The Luminosity Distance, the Equation of State, and the Geometry of the Universe. <i>Progress of Theoretical Physics</i> , 1998, 100, 1077-1082.	2.0	137
80	Two boosted black holes in asymptotically de Sitter space-time: Relation between mass and apparent horizon formation. <i>Physical Review D</i> , 1998, 57, 6119-6126.	4.7	4
81	Black hole binary formation in the expanding universe: Three body problem approximation. <i>Physical Review D</i> , 1998, 58, .	4.7	123
82	Generality of inflation and constraints on scalar - tensor theories of gravity. <i>Classical and Quantum Gravity</i> , 1997, 14, 2951-2961.	4.0	5
83	Scalar gravitational wave from Oppenheimer-Snyder collapse in scalar-tensor theories of gravity. <i>Physical Review D</i> , 1997, 55, 2024-2037.	4.7	68
84	Disappearance of Black Hole Criticality in Semiclassical General Relativity. <i>Modern Physics Letters A</i> , 1997, 12, 709-718.	1.2	32
85	Chapter 6. Gravitational Physics in Scalar-Tensor Theories. <i>Progress of Theoretical Physics Supplement</i> , 1997, 128, 335-372.	0.1	23
86	The Minimum Mass of the First Stars and the Anthropic Principle. <i>Progress of Theoretical Physics</i> , 1997, 97, 169-171.	2.0	2
87	Anisotropy of the cosmic background radiation implies the violation of the strong energy condition in Bianchi type I universe. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 408, 47-51.	4.1	6
88	Cylindrical Dust Collapse in General Relativity: Toward Higher Dimensional Collapse. <i>Progress of Theoretical Physics</i> , 1996, 95, 321-338.	2.0	29
89	Applying gradient expansion to a perfect fluid and higher dimensions. <i>General Relativity and Gravitation</i> , 1996, 28, 1089-1106.	2.0	4
90	Critical Behavior in the Brans-Dicke Theory of Gravitation. <i>Progress of Theoretical Physics</i> , 1996, 96, 567-574.	2.0	25

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91	The Hubble Parameter in a Void Universe: Effect of the Peculiar Velocity. <i>Astrophysical Journal</i> , 1995, 453, 541.	4.5	9
92	Hoop conjecture for apparent horizon formation. <i>Classical and Quantum Gravity</i> , 1994, 11, 431-441.	4.0	25
93	Prohibition of large inhomogeneity in the preinflationary stage. <i>Physical Review D</i> , 1994, 49, 3886-3892.	4.7	5
94	Cosmic hoop conjecture?. <i>Physical Review D</i> , 1994, 50, 4903-4913.	4.7	6