

Eiichiro Komatsu

List of Publications by Year in descending order

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Version: 2024-02-01

82
papers

27,837
citations

50244

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58549

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83
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83
times ranked

14987
citing authors

#	ARTICLE	IF	CITATIONS
1	In-flight polarization angle calibration for LiteBIRD: blind challenge and cosmological implications. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 039.	1.9	9
2	Cosmic Birefringence from the Planck Data Release 4. <i>Physical Review Letters</i> , 2022, 128, 091302.	2.9	54
3	Axion-gauge field dynamics with backreaction. <i>Journal of Cosmology and Astroparticle Physics</i> , 2022, 2022, 010.	1.9	9
4	New Constraint on Early Dark Energy from Planck and BOSS Data Using the Profile Likelihood. <i>Astrophysical Journal Letters</i> , 2022, 929, L16.	3.0	48
5	Cosmology intertwined: A review of the particle physics, astrophysics, and cosmology associated with the cosmological tensions and anomalies. <i>Journal of High Energy Astrophysics</i> , 2022, 34, 49-211.	2.4	350
6	Surface Brightness Profile of Lyman- α Halos out to 320 kpc in HETDEX. <i>Astrophysical Journal</i> , 2022, 929, 90.	1.6	15
7	New physics from the polarized light of the cosmic microwave background. <i>Nature Reviews Physics</i> , 2022, 4, 452-469.	11.9	46
8	Is cosmic birefringence due to dark energy or dark matter? A tomographic approach. <i>Physical Review D</i> , 2022, 105, .	1.6	20
9	Lattice simulations of Abelian gauge fields coupled to axions during inflation. <i>Physical Review D</i> , 2022, 105, .	1.6	5
10	Measuring the spectrum of primordial gravitational waves with CMB, PTA and laser interferometers. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 012-012.	1.9	60
11	The Thermal and Gravitational Energy Densities in the Large-scale Structure of the Universe. <i>Astrophysical Journal</i> , 2021, 910, 32.	1.6	6
12	Ray-tracing log-normal simulation for weak gravitational lensing: application to the cross-correlation with galaxies. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 095.	1.9	4
13	Correcting correlation functions for redshift-dependent interloper contamination. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 3187-3206.	1.6	15
14	TDCOSMO. <i>Astronomy and Astrophysics</i> , 2021, 652, A7.	2.1	11
15	The isotropic attractor solution of axion-SU(2) inflation: universal isotropization in Bianchi type-I geometry. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 031.	1.9	11
16	Testing the Sunyaev-Zeldovich-based tomographic approach to the thermal history of the Universe with pressure-density cross correlations: Insights from the Magneticum simulation. <i>Physical Review D</i> , 2021, 104, .	1.6	6
17	The Hobby-Eberly Telescope Dark Energy Experiment (HETDEX) Survey Design, Reductions, and Detections*. <i>Astrophysical Journal</i> , 2021, 923, 217.	1.6	55
18	The HETDEX Instrumentation: Hobby-Eberly Telescope Wide-field Upgrade and VIRUS. <i>Astronomical Journal</i> , 2021, 162, 298.	1.9	52

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19	Simultaneous determination of the cosmic birefringence and miscalibrated polarization angles II: Including cross-frequency spectra. Progress of Theoretical and Experimental Physics, 2020, 2020, .	1.8	25
20	New Extraction of the Cosmic Birefringence from the Planck 2018 Polarization Data. Physical Review Letters, 2020, 125, 221301.	2.9	119
21	New constraints on the mass bias of galaxy clusters from the power spectra of the thermal Sunyaev-Zeldovich effect and cosmic shear. Publication of the Astronomical Society of Japan, 2020, 72, .	1.0	18
22	Effects of gravitational Chern-Simons during Axion-SU(2) inflation. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 024-024.	1.9	18
23	Deeply cooled core of the Phoenix galaxy cluster imaged by ALMA with the Sunyaev-Zeldovich effect. Publication of the Astronomical Society of Japan, 2020, 72, .	1.0	11
24	HOLiCOW XIII. A 2.4 per cent measurement of H0 from lensed quasars: 5.3% tension between early- and late-Universe probes. Monthly Notices of the Royal Astronomical Society, 2020, 498, 1420-1439.	1.6	632
25	The effect of our local motion on the Sandage-Loeb test of the cosmic expansion. Publication of the Astronomical Society of Japan, 2020, 72, .	1.0	3
26	How attractive is the isotropic attractor solution of axion-SU(2) inflation?. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 047-047.	1.9	16
27	The Cosmic Thermal History Probed by Sunyaev-Zeldovich Effect Tomography. Astrophysical Journal, 2020, 902, 56.	1.6	36
28	Simultaneous determination of the cosmic birefringence and miscalibrated polarization angles from CMB experiments. Progress of Theoretical and Experimental Physics, 2019, 2019, .	1.8	52
29	A measurement of the Hubble constant from angular diameter distances to two gravitational lenses. Science, 2019, 365, 1134-1138.	6.0	44
30	Production and backreaction of spin-2 particles of SU(2) gauge field during inflation. Journal of High Energy Physics, 2019, 2019, 1.	1.6	31
31	Delta-map method of removing CMB foregrounds with spatially varying spectra. Progress of Theoretical and Experimental Physics, 2019, 2019, .	1.8	14
32	LiteBIRD: A Satellite for the Studies of B-Mode Polarization and Inflation from Cosmic Background Radiation Detection. Journal of Low Temperature Physics, 2019, 194, 443-452.	0.6	193
33	Schwinger effect by an SU(2) gauge field during inflation. Journal of High Energy Physics, 2019, 2019, 1.	1.6	26
34	Unbiased Cosmological Parameter Estimation from Emission-line Surveys with Interlopers. Astrophysical Journal, 2019, 876, 32.	1.6	19
35	The Impact of Line Misidentification on Cosmological Constraints from Euclid and Other Spectroscopic Galaxy Surveys. Astrophysical Journal, 2019, 879, 15.	1.6	15
36	Finding the chiral gravitational wave background of an axion- $SU(2)$ inflationary model using CMB observations and laser interferometers. Physical Review D, 2018, 97, .	1.6	81

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37	Deconstructing the neutrino mass constraint from galaxy redshift surveys. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 035-035.	1.9	50
38	Joint analysis of the thermal Sunyaev-Zeldovich effect and 2MASS galaxies: probing gas physics in the local Universe and beyond. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 3928-3941.	1.6	39
39	Tensor non-Gaussianity from axion-gauge-fields dynamics: parameter search. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 027-027.	1.9	49
40	Dark energy constraints from the thermal Sunyaev-Zeldovich power spectrum. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 4957-4967.	1.6	66
41	Large tensor non-Gaussianity from axion-gauge field dynamics. <i>Physical Review D</i> , 2018, 97, .	1.6	68
42	A Cool Core Disturbed: Observational Evidence for the Coexistence of Subsonic Slushing Gas and Stripped Shock-heated Gas around the Core of RX J1347.5-1145. <i>Astrophysical Journal</i> , 2018, 866, 48.	1.6	20
43	Measuring patchy reionization with κ SZ-21 μ m correlations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 4025-4031.	1.6	18
44	Angular power spectrum of galaxies in the 2MASS Redshift Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 473, 4318-4325.	1.6	19
45	Reconstruction of primordial tensor power spectra from $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle mml:mi>B</mml:mi> \langle /mml:math \rangle$ -mode polarization of the cosmic microwave background. <i>Physical Review D</i> , 2018, 97, .	1.6	13
46	Generating log-normal mock catalog of galaxies in redshift space. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 003-003.	1.9	48
47	Bayesian Redshift Classification of Emission-line Galaxies with Photometric Equivalent Widths. <i>Astrophysical Journal</i> , 2017, 843, 130.	1.6	26
48	<i>AKARI</i> near-infrared background fluctuations arise from normal galaxy populations. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2017, 467, L36-L40.	1.2	6
49	The Sunyaev-Zeldovich effect at 5σ : RX J1347.5-1145 imaged by ALMA. <i>Publication of the Astronomical Society of Japan</i> , 2016, 68, .	1.0	32
50	Analytical model for non-thermal pressure in galaxy clusters III. Removing the hydrostatic mass bias. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 2936-2944.	1.6	59
51	SZ effects in the Magneticum Pathfinder simulation: comparison with the <i>Planck</i> , SPT, and ACT results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 1797-1811.	1.6	135
52	Analytical model for non-thermal pressure in galaxy clusters II. Comparison with cosmological hydrodynamics simulation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 1020-1029.	1.6	58
53	Measuring angular diameter distances of strong gravitational lenses. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 033-033.	1.9	58
54	Analytical model for non-thermal pressure in galaxy clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 442, 521-532.	1.6	61

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55	Limits on anisotropic inflation from the Planck data. <i>Physical Review D</i> , 2013, 88, .	1.6	104
56	NINE-YEAR <i>WILKINSON MICROWAVE ANISOTROPY PROBE</i> (<i>WMAP</i>) OBSERVATIONS: FINAL MAPS AND RESULTS. <i>Astrophysical Journal, Supplement Series</i> , 2013, 208, 20.	3.0	1,810
57	NINE-YEAR <i>WILKINSON MICROWAVE ANISOTROPY PROBE</i> (<i>WMAP</i>) OBSERVATIONS: COSMOLOGICAL PARAMETER RESULTS. <i>Astrophysical Journal, Supplement Series</i> , 2013, 208, 19.	3.0	3,998
58	Galaxy redshift surveys with sparse sampling. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 030-030.	1.9	23
59	Cosmology from clustering of Ly α galaxies: breaking non-gravitational Ly α radiative transfer degeneracies using the bispectrum. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 431, 1777-1794.	1.6	16
60	SEVEN-YEAR <i>WILKINSON MICROWAVE ANISOTROPY PROBE</i> (<i>WMAP</i>) OBSERVATIONS: COSMOLOGICAL INTERPRETATION. <i>Astrophysical Journal, Supplement Series</i> , 2011, 192, 18.	3.0	6,656
61	THE HETDEX PILOT SURVEY. II. THE EVOLUTION OF THE Ly α ESCAPE FRACTION FROM THE ULTRAVIOLET SLOPE AND LUMINOSITY FUNCTION OF 1.9 z 3.8 LAEs. <i>Astrophysical Journal</i> , 2011, 736, 31.	1.6	152
62	THE HETDEX PILOT SURVEY. I. SURVEY DESIGN, PERFORMANCE, AND CATALOG OF EMISSION-LINE GALAXIES. <i>Astrophysical Journal, Supplement Series</i> , 2011, 192, 5.	3.0	134
63	Testing the Gaussianity and Statistical Isotropy of the Universe. <i>Advances in Astronomy</i> , 2010, 2010, 1-1.	0.5	10
64	Hunting for primordial non-Gaussianity in the cosmic microwave background. <i>Classical and Quantum Gravity</i> , 2010, 27, 124010.	1.5	189
65	EXTRACTING ANGULAR DIAMETER DISTANCE AND EXPANSION RATE OF THE UNIVERSE FROM TWO-DIMENSIONAL GALAXY POWER SPECTRUM AT HIGH REDSHIFTS: BARYON ACOUSTIC OSCILLATION FITTING VERSUS FULL MODELING. <i>Astrophysical Journal</i> , 2009, 693, 1404-1416.	1.6	65
66	FIVE-YEAR <i>WILKINSON MICROWAVE ANISOTROPY PROBE</i> OBSERVATIONS: COSMOLOGICAL INTERPRETATION. <i>Astrophysical Journal, Supplement Series</i> , 2009, 180, 330-376.	3.0	4,114
67	PERTURBATION THEORY RELOADED. II. NONLINEAR BIAS, BARYON ACOUSTIC OSCILLATIONS, AND MILLENNIUM SIMULATION IN REAL SPACE. <i>Astrophysical Journal</i> , 2009, 691, 569-595.	1.6	75
68	Suzaku broad-band spectroscopy of RX J1347.5-1145: constraints on the extremely hot gas and non-thermal emission. <i>Astronomy and Astrophysics</i> , 2008, 491, 363-377.	2.1	31
69	Three-Year Wilkinson Microwave Anisotropy Probe (WMAP) Observations: Temperature Analysis. <i>Astrophysical Journal, Supplement Series</i> , 2007, 170, 288-334.	3.0	778
70	Improved calculation of the primordial gravitational wave spectrum in the standard model. <i>Physical Review D</i> , 2006, 73, .	1.6	203
71	Perturbation Theory Reloaded: Analytical Calculation of Nonlinearity in Baryonic Oscillations in the Real-Space Matter Power Spectrum. <i>Astrophysical Journal</i> , 2006, 651, 619-626.	1.6	158
72	Exploring Cluster Physics with High-Resolution Sunyaev-Zeldovich Effect Images and X-Ray Data: The Case of the Most X-Ray-Luminous Galaxy Cluster RX J1347-1145. <i>Publication of the Astronomical Society of Japan</i> , 2004, 56, 17-28.	1.0	81

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73	First-Year Wilkinson Microwave Anisotropy Probe (WMAP) Observations: Preliminary Maps and Basic Results. Astrophysical Journal, Supplement Series, 2003, 148, 1-27.	3.0	3,843
74	First-Year Wilkinson Microwave Anisotropy Probe (WMAP) Observations: Tests of Gaussianity. Astrophysical Journal, Supplement Series, 2003, 148, 119-134.	3.0	534
75	The Sunyaev-Zel'dovich angular power spectrum as a probe of cosmological parameters. Monthly Notices of the Royal Astronomical Society, 2002, 336, 1256-1270.	1.6	355
76	Universal gas density and temperature profile. Monthly Notices of the Royal Astronomical Society, 2001, 327, 1353-1366.	1.6	177
77	Substructures Revealed by the Sunyaev-Zel'dovich Effect at 150 GHz in a High-Resolution Map of RX J1347-1145. Publication of the Astronomical Society of Japan, 2001, 53, 57-62.	1.0	78
78	Acoustic signatures in the primary microwave background bispectrum. Physical Review D, 2001, 63, .	1.6	803
79	Power spectrum of the Sunyaev-Zel'dovich effect. Physical Review D, 2000, 61, .	1.6	99
80	Complete constraints on a nonminimally coupled chaotic inflationary scenario from the cosmic microwave background. Physical Review D, 1999, 59, .	1.6	169
81	Sunyaev-Zeldovich Fluctuations from Spatial Correlations between Clusters of Galaxies. Astrophysical Journal, 1999, 526, L1-L4.	1.6	174
82	Submillimeter Detection of the Sunyaev-Zeldovich Effect toward the Most Luminous X-Ray Cluster at $z = 0.45$. Astrophysical Journal, 1999, 516, L1-L4.	1.6	54