Yuji Chinone

List of Publications by Year
in descending order

83 papers	3,498 citations	236925 25 h-index	144013 57 g-index
84 all docs	84 docs citations	84 times ranked	2388 citing authors

#	Article	IF	Citations
1	Simons Observatory: Constraining inflationary gravitational waves with multitracer <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>B</mml:mi></mml:math> -mode delensing. Physical Review D, 2022, 105, .	4.7	13
2	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. Astrophysical Journal, 2022, 926, 54.	4.5	79
3	Improved Upper Limit on Degree-scale CMB B-mode Polarization Power from the 670 Square-degree POLARBEAR Survey. Astrophysical Journal, 2022, 931, 101.	4.5	7
4	The Simons Observatory: The Large Aperture Telescope (LAT). Research Notes of the AAS, 2021, 5, 100.	0.7	8
5	The Simons Observatory: gain, bandpass and polarization-angle calibration requirements for B-mode searches. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 032.	5.4	14
6	Integrated Electrical Properties of the Frequency Multiplexed Cryogenic Readout System for Polarbear/Simons Array. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.7	1
7	Method for rapid performance validation of large TES bolometer array for POLARBEAR-2A using a coherent millimeter-wave source. AIP Conference Proceedings, 2021, , .	0.4	1
8	Small Aperture Telescopes for the Simons Observatory. Journal of Low Temperature Physics, 2020, 200, 461-471.	1.4	21
9	Deployment of Polarbear-2A. Journal of Low Temperature Physics, 2020, 199, 1137-1147.	1.4	8
10	Updated Design of the CMB Polarization Experiment Satellite LiteBIRD. Journal of Low Temperature Physics, 2020, 199, 1107-1117.	1.4	64
11	Measurement of the Cosmic Microwave Background Polarization Lensing Power Spectrum from Two Years of POLARBEAR Data. Astrophysical Journal, 2020, 893, 85.	4.5	18
12	Internal Delensing of Cosmic Microwave Background Polarization <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>B</mml:mi></mml:math> -Modes with the POLARBEAR Experiment. Physical Review Letters, 2020, 124, 131301.	7.8	25
13	Overview of the medium and high frequency telescopes of the LiteBIRD space mission. , 2020, , .		3
14	LiteBIRD satellite: JAXA's new strategic L-class mission for all-sky surveys of cosmic microwave background polarization. , 2020, , .		79
15	A Measurement of the Degree-scale CMB B-mode Angular Power Spectrum with Polarbear. Astrophysical Journal, 2020, 897, 55.	4.5	41
16	CMB Shadows: The Effect of Interstellar Extinction on Cosmic Microwave Background Polarization and Temperature Anisotropy. Astrophysical Journal Letters, 2020, 895, L21.	8.3	4
17	The Simons Observatory Small Aperture Telescope overview. , 2020, , .		7
18	Concept design of low frequency telescope for CMB B-mode polarization satellite LiteBIRD. , 2020, , .		4

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19	Data acquisition and management system for the CMB polarization experiment: Simons Array. , 2020, , .		1
20	Detector and readout characterization for POLARBEAR-2b. , 2020, , .		1
21	A Measurement of the CMB E-mode Angular Power Spectrum at Subdegree Scales from 670 Square Degrees of POLARBEAR Data. Astrophysical Journal, 2020, 904, 65.	4.5	27
22	Evidence for the Cross-correlation between Cosmic Microwave Background Polarization Lensing from Polarbear and Cosmic Shear from Subaru Hyper Suprime-Cam. Astrophysical Journal, 2019, 882, 62.	4.5	20
23	The Simons Observatory: science goals and forecasts. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 056-056.	5.4	741
24	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.	1.4	193
25	Cross-correlation of CMB Polarization Lensing with High-z Submillimeter Herschel-ATLAS Galaxies. Astrophysical Journal, 2019, 886, 38.	4.5	6
26	The POLARBEAR Fourier transform spectrometer calibrator and spectroscopic characterization of the POLARBEAR instrument. Review of Scientific Instruments, 2019, 90, 115115.	1.3	7
27	Measurements of Tropospheric Ice Clouds with a Ground-based CMB Polarization Experiment, POLARBEAR. Astrophysical Journal, 2019, 870, 102.	4.5	11
28	Optimization study for the experimental configuration of CMB-S4. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 009-009.	5.4	14
29	The POLARBEAR-2 and Simons Array Focal Plane Fabrication Status. Journal of Low Temperature Physics, 2018, 193, 758-770.	1.4	16
30	The LiteBIRD Satellite Mission: Sub-Kelvin Instrument. Journal of Low Temperature Physics, 2018, 193, 1048-1056.	1.4	96
31	Concept Study of Optical Configurations for High-Frequency Telescope for LiteBIRD. Journal of Low Temperature Physics, 2018, 193, 841-850.	1.4	6
32	Systematic uncertainties in the Simons Observatory: optical effects and sensitivity considerations. , 2018, , .		4
33	The Simons Observatory: instrument overview. , 2018, , .		56
34	Studies of systematic uncertainties for Simons Observatory: polarization modulator related effects. , 2018, , .		6
35	Studies of systematic uncertainties for Simons Observatory: detector array effects. , 2018, , .		8
36	Concept design of the LiteBIRD satellite for CMB B-mode polarization. , 2018, , .		19

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37	Development of calibration strategies for the Simons Observatory. , 2018, , .		4
38	Designs for next generation CMB survey strategies from Chile. , 2018, , .		12
39	BoloCalc: a sensitivity calculator for the design of Simons Observatory. , 2018, , .		13
40	Cross-polarization systematics due to Mizuguchi-Dragone condition breaking by a continuously rotating half-wave plate at prime focus in the Huan Tran telescope. , 2018, , .		1
41	Performance of a continuously rotating half-wave plate on the POLARBEAR telescope. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 008-008.	5.4	41
42	A Measurement of the Cosmic Microwave Background B-mode Polarization Power Spectrum at Subdegree Scales from Two Years of polarbear Data. Astrophysical Journal, 2017, 848, 121.	4.5	83
43	Making maps of cosmic microwave background polarization for B-mode studies: the POLARBEAR example. Astronomy and Astrophysics, 2017, 600, A60.	5.1	11
44	Design and development of an ambient-temperature continuously-rotating achromatic half-wave plate for CMB polarization modulation on the POLARBEAR-2 experiment. Proceedings of SPIE, 2016, , .	0.8	23
45	LiteBIRD: lite satellite for the study of B-mode polarization and inflation from cosmic microwave background radiation detection. Proceedings of SPIE, 2016, , .	0.8	20
46	The Polarbear-2 and the Simons Array Experiments. Journal of Low Temperature Physics, 2016, 184, 805-810.	1.4	139
47	LiteBIRD: Mission Overview and Focal Plane Layout. Journal of Low Temperature Physics, 2016, 184, 824-831.	1.4	70
48	POLARBEAR-2: an instrument for CMB polarization measurements. Proceedings of SPIE, 2016, , .	0.8	31
49	The Simons Array CMB polarization experiment. Proceedings of SPIE, 2016, , .	0.8	18
50	POLARBEAR constraints on cosmic birefringence and primordial magnetic fields. Physical Review D, 2015, 92, .	4.7	78
51	MODELING ATMOSPHERIC EMISSION FOR CMB GROUND-BASED OBSERVATIONS. Astrophysical Journal, 2015, 809, 63.	4.5	27
52	THE Q/U IMAGING EXPERIMENT: POLARIZATION MEASUREMENTS OF THE GALACTIC PLANE AT 43 AND 95 GHz. Astrophysical Journal, 2015, 811, 89.	4.5	9
53	The AKARI far-infrared all-sky survey maps. Publication of the Astronomical Society of Japan, 2015, 67, .	2.5	84
54	THE Q/U IMAGING EXPERIMENT: POLARIZATION MEASUREMENTS OF RADIO SOURCES AT 43 AND 95 GHz. Astrophysical Journal, 2015, 806, 112.	4.5	5

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55	A MEASUREMENT OF THE COSMIC MICROWAVE BACKGROUND B-MODE POLARIZATION WITH POLARBEAR. Publications of the Korean Astronomical Society, 2015, 30, 625-628.	0.0	3
56	The Simons Array: expanding POLARBEAR to three multi-chroic telescopes. Proceedings of SPIE, 2014, , .	0.8	25
57	LiteBIRD: mission overview and design tradeoffs. Proceedings of SPIE, 2014, , .	0.8	7
58	Thermal and optical characterization for POLARBEAR-2 optical system. , 2014, , .		3
59	Development and characterization of the readout system for POLARBEAR-2. , 2014, , .		3
60	The POLARBEAR-2 Experiment. Journal of Low Temperature Physics, 2014, 176, 719-725.	1.4	8
61	The POLARBEAR Cosmic Microwave Background Polarization Experiment. Journal of Low Temperature Physics, 2014, 176, 726-732.	1.4	3
62	Evidence for Gravitational Lensing of the Cosmic Microwave Background Polarization from Cross-Correlation with the Cosmic Infrared Background. Physical Review Letters, 2014, 112, 131302.	7.8	81
63	A MEASUREMENT OF THE COSMIC MICROWAVE BACKGROUNDB-MODE POLARIZATION POWER SPECTRUM AT SUB-DEGREE SCALES WITH POLARBEAR. Astrophysical Journal, 2014, 794, 171.	4.5	233
64	Mission Design of LiteBIRD. Journal of Low Temperature Physics, 2014, 176, 733-740.	1.4	300
65	Measurement of the Cosmic Microwave Background Polarization Lensing Power Spectrum with the POLARBEAR Experiment. Physical Review Letters, 2014, 113, 021301.	7.8	138
66	Cosmic Microwave Background B-Mode Polarization Experiment POLARBEAR-2. , 2014, , .		0
67	THE Q/U IMAGING EXPERIMENT INSTRUMENT. Astrophysical Journal, 2013, 768, 9.	4.5	45
68	The POLARBEAR-2 experiment. Proceedings of SPIE, 2012, , .	0.8	15
69	POLARBEAR-2 optical and polarimeter designs. Proceedings of SPIE, 2012, , .	0.8	8
70	Note: Innovative demodulation scheme for coherent detectors in cosmic microwave background experiments. Review of Scientific Instruments, 2012, 83, 056104.	1.3	0
71	The POLARBEAR experiment. Proceedings of SPIE, 2012, , .	0.8	65
72	The bolometric focal plane array of the POLARBEAR CMB experiment. Proceedings of SPIE, 2012, , .	0.8	31

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73	New demodulation scheme for coherent polarimeters in CMB experiments. , 2012, , .		0
74	LiteBIRD: a small satellite for the study of B-mode polarization and inflation from cosmic background radiation detection. Proceedings of SPIE, 2012, , .	0.8	54
75	SECOND SEASON QUIET OBSERVATIONS: MEASUREMENTS OF THE COSMIC MICROWAVE BACKGROUND POLARIZATION POWER SPECTRUM AT 95 GHz. Astrophysical Journal, 2012, 760, 145.	4.5	79
76	Laboratory Calibration System for CMB Polarization Detectors. Journal of Low Temperature Physics, 2012, 167, 892-897.	1.4	0
77	FIRST SEASON QUIET OBSERVATIONS: MEASUREMENTS OF COSMIC MICROWAVE BACKGROUND POLARIZATION POWER SPECTRA AT 43 GHz IN THE MULTIPOLE RANGE 25 â©½ ell â©½ 475. Astrophysical Journal, 2011, 741, 111.	4.5	84
78	Calibration system with cryogenically-cooled loads for cosmic microwave background polarization detectors. Review of Scientific Instruments, 2011, 82, 054501.	1.3	12
79	Realization of multiplying type interferometer with 2-elements 0.3K bolometer detectores. , 2008, , .		0
80	Application of Michelson type bolometric interferomter to CMB B mode polarization observations. AIP Conference Proceedings, 2008, , .	0.4	0
81	Application of Michelson type bolometric interferometer to CMB B mode polarization observations. , 2008, , .		0
82	Astronomical testing observation in Multi-Fourier transform interferometer: Aperture synthesis technique and CMB. , 2007, , .		2
83	Astronomical mm and sub-mm observations with the Multi-Fourier Transform Interferometer in 2005 and 2006. , 2006, , .		0