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	The Simons Observatory: science goals and forecasts. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 056-056.	5.4	741
2	Mission Design of LiteBIRD. Journal of Low Temperature Physics, 2014, 176, 733-740.	1.4	300
3	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
4	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
5	The Polarbear-2 and the Simons Array Experiments. Journal of Low Temperature Physics, 2016, 184, 805-810.	1.4	139
6	Measurement of the Cosmic Microwave Background Polarization Lensing Power Spectrum with the POLARBEAR Experiment. Physical Review Letters, 2014, 113, 021301.	7.8	138
7	The LiteBIRD Satellite Mission: Sub-Kelvin Instrument. Journal of Low Temperature Physics, 2018, 193, 1048-1056.	1.4	96
8	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
9	The AKARI far-infrared all-sky survey maps. Publication of the Astronomical Society of Japan, 2015, 67, .	2.5	84
10	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
11	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
12	SECOND SEASON QUIET OBSERVATIONS: MEASUREMENTS OF THE COSMIC MICROWAVE BACKGROUND POLARIZATION POWER SPECTRUM AT 95 GHz. Astrophysical Journal, 2012, 760, 145.	4.5	79
13	LiteBIRD satellite: JAXA's new strategic L-class mission for all-sky surveys of cosmic microwave background polarization. , 2020, , .		79
14	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. Astrophysical Journal, 2022, 926, 54.	4.5	79
15	POLARBEAR constraints on cosmic birefringence and primordial magnetic fields. Physical Review D, 2015, 92, .	4.7	78
16	LiteBIRD: Mission Overview and Focal Plane Layout. Journal of Low Temperature Physics, 2016, 184, 824-831.	1.4	70
17	The POLARBEAR experiment. Proceedings of SPIE, 2012, , .	0.8	65
18	Updated Design of the CMB Polarization Experiment Satellite LiteBIRD. Journal of Low Temperature Physics, 2020, 199, 1107-1117.	1.4	64

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19	The Simons Observatory: instrument overview. , 2018, , .		56
20	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
21	THE Q/U IMAGING EXPERIMENT INSTRUMENT. Astrophysical Journal, 2013, 768, 9.	4.5	45
22	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
23	A Measurement of the Degree-scale CMB B-mode Angular Power Spectrum with Polarbear. Astrophysical Journal, 2020, 897, 55.	4.5	41
24	The bolometric focal plane array of the POLARBEAR CMB experiment. Proceedings of SPIE, 2012, , .	0.8	31
25	POLARBEAR-2: an instrument for CMB polarization measurements. Proceedings of SPIE, 2016, , .	0.8	31
26	MODELING ATMOSPHERIC EMISSION FOR CMB GROUND-BASED OBSERVATIONS. Astrophysical Journal, 2015, 809, 63.	4.5	27
27	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
28	The Simons Array: expanding POLARBEAR to three multi-chroic telescopes. Proceedings of SPIE, 2014, , .	0.8	25
29	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
30	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
31	Small Aperture Telescopes for the Simons Observatory. Journal of Low Temperature Physics, 2020, 200, 461-471.	1.4	21
32	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
33	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
34	Concept design of the LiteBIRD satellite for CMB B-mode polarization. , 2018, , .		19
35	Measurement of the Cosmic Microwave Background Polarization Lensing Power Spectrum from Two Years of POLARBEAR Data. Astrophysical Journal, 2020, 893, 85.	4.5	18
36	The Simons Array CMB polarization experiment. Proceedings of SPIE, 2016, , .	0.8	18

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37	The POLARBEAR-2 and Simons Array Focal Plane Fabrication Status. Journal of Low Temperature Physics, 2018, 193, 758-770.	1.4	16
38	The POLARBEAR-2 experiment. Proceedings of SPIE, 2012, , .	0.8	15
39	Optimization study for the experimental configuration of CMB-S4. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 009-009.	5.4	14
40	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
41	BoloCalc: a sensitivity calculator for the design of Simons Observatory. , 2018, , .		13
42	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
43	Calibration system with cryogenically-cooled loads for cosmic microwave background polarization detectors. Review of Scientific Instruments, 2011, 82, 054501.	1.3	12
44	Designs for next generation CMB survey strategies from Chile. , 2018, , .		12
45	Measurements of Tropospheric Ice Clouds with a Ground-based CMB Polarization Experiment, POLARBEAR. Astrophysical Journal, 2019, 870, 102.	4.5	11
46	Making maps of cosmic microwave background polarization for B-mode studies: the POLARBEAR example. Astronomy and Astrophysics, 2017, 600, A60.	5.1	11
47	THE Q/U IMAGING EXPERIMENT: POLARIZATION MEASUREMENTS OF THE GALACTIC PLANE AT 43 AND 95 GHz. Astrophysical Journal, 2015, 811, 89.	4.5	9
48	POLARBEAR-2 optical and polarimeter designs. Proceedings of SPIE, 2012, , .	0.8	8
49	The POLARBEAR-2 Experiment. Journal of Low Temperature Physics, 2014, 176, 719-725.	1.4	8
50	Deployment of Polarbear-2A. Journal of Low Temperature Physics, 2020, 199, 1137-1147.	1.4	8
51	The Simons Observatory: The Large Aperture Telescope (LAT). Research Notes of the AAS, 2021, 5, 100.	0.7	8
52	Studies of systematic uncertainties for Simons Observatory: detector array effects. , 2018, , .		8
53	LiteBIRD: mission overview and design tradeoffs. Proceedings of SPIE, 2014, , .	0.8	7
54	The POLARBEAR Fourier transform spectrometer calibrator and spectroscopic characterization of the POLARBEAR instrument. Review of Scientific Instruments, 2019, 90, 115115.	1.3	7

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55	The Simons Observatory Small Aperture Telescope overview. , 2020, , .		7
56	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
57	Concept Study of Optical Configurations for High-Frequency Telescope for LiteBIRD. Journal of Low Temperature Physics, 2018, 193, 841-850.	1.4	6
58	Cross-correlation of CMB Polarization Lensing with High-z Submillimeter Herschel-ATLAS Galaxies. Astrophysical Journal, 2019, 886, 38.	4.5	6
59	Studies of systematic uncertainties for Simons Observatory: polarization modulator related effects. , 2018, , .		6
60	THE Q/U IMAGING EXPERIMENT: POLARIZATION MEASUREMENTS OF RADIO SOURCES AT 43 AND 95 GHz. Astrophysical Journal, 2015, 806, 112.	4.5	5
61	Systematic uncertainties in the Simons Observatory: optical effects and sensitivity considerations. , 2018, , .		4
62	Development of calibration strategies for the Simons Observatory. , 2018, , .		4
63	CMB Shadows: The Effect of Interstellar Extinction on Cosmic Microwave Background Polarization and Temperature Anisotropy. Astrophysical Journal Letters, 2020, 895, L21.	8.3	4
64	Concept design of low frequency telescope for CMB B-mode polarization satellite LiteBIRD. , 2020, , .		4
65	Thermal and optical characterization for POLARBEAR-2 optical system. , 2014, , .		3
66	Development and characterization of the readout system for POLARBEAR-2. , 2014, , .		3
67	The POLARBEAR Cosmic Microwave Background Polarization Experiment. Journal of Low Temperature Physics, 2014, 176, 726-732.	1.4	3
68	Overview of the medium and high frequency telescopes of the LiteBIRD space mission. , 2020, , .		3
69	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
70	Astronomical testing observation in Multi-Fourier transform interferometer: Aperture synthesis technique and CMB. , 2007, , .		2
71	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
72	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

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73	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
74	Data acquisition and management system for the CMB polarization experiment: Simons Array. , 2020, , .		1
75	Detector and readout characterization for POLARBEAR-2b. , 2020, , .		1
76	Astronomical mm and sub-mm observations with the Multi-Fourier Transform Interferometer in 2005 and 2006. , 2006, , .		0
77	Realization of multiplying type interferometer with 2-elements 0.3K bolometer detectores. , 2008, , .		0
78	Application of Michelson type bolometric interferomter to CMB B mode polarization observations. AIP Conference Proceedings, 2008, , .	0.4	0
79	Application of Michelson type bolometric interferometer to CMB B mode polarization observations. , 2008, , .		0
80	Note: Innovative demodulation scheme for coherent detectors in cosmic microwave background experiments. Review of Scientific Instruments, 2012, 83, 056104.	1.3	0
81	New demodulation scheme for coherent polarimeters in CMB experiments. , 2012, , .		0
82	Laboratory Calibration System for CMB Polarization Detectors. Journal of Low Temperature Physics, 2012, 167, 892-897.	1.4	0
83	Cosmic Microwave Background B-Mode Polarization Experiment POLARBEAR-2. , 2014, , .		0