

Aritoki Suzuki

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

3,105
citations

331259

21
h-index

161609

54
g-index

78
all docs

78
docs citations

78
times ranked

2002
citing authors

#	ARTICLE	IF	CITATIONS
1	The Simons Observatory: science goals and forecasts. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 056-056.	1.9	741
2	SPT-3G: a next-generation cosmic microwave background polarization experiment on the South Pole telescope. <i>Proceedings of SPIE</i> , 2014, , .	0.8	249
3	A MEASUREMENT OF THE COSMIC MICROWAVE BACKGROUND B -MODE POLARIZATION POWER SPECTRUM AT SUB-DEGREE SCALES WITH POLARBEAR. <i>Astrophysical Journal</i> , 2014, 794, 171.	1.6	233
4	LiteBIRD: A Satellite for the Studies of B-Mode Polarization and Inflation from Cosmic Background Radiation Detection. <i>Journal of Low Temperature Physics</i> , 2019, 194, 443-452.	0.6	193
5	The Polarbear-2 and the Simons Array Experiments. <i>Journal of Low Temperature Physics</i> , 2016, 184, 805-810.	0.6	139
6	Measurement of the Cosmic Microwave Background Polarization Lensing Power Spectrum with the POLARBEAR Experiment. <i>Physical Review Letters</i> , 2014, 113, 021301.	2.9	138
7	Measurements of the E -mode polarization and temperature- E -mode correlation of the CMB from SPT-3G 2018 data. <i>Physical Review D</i> , 2021, 104, .	1.6	119
8	The LiteBIRD Satellite Mission: Sub-Kelvin Instrument. <i>Journal of Low Temperature Physics</i> , 2018, 193, 1048-1056.	0.6	96
9	A Measurement of the Cosmic Microwave Background B-mode Polarization Power Spectrum at Subdegree Scales from Two Years of polarbear Data. <i>Astrophysical Journal</i> , 2017, 848, 121.	1.6	83
10	Evidence for Gravitational Lensing of the Cosmic Microwave Background Polarization from Cross-Correlation with the Cosmic Infrared Background. <i>Physical Review Letters</i> , 2014, 112, 131302.	2.9	81
11	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , 2022, 926, 54.	1.6	79
12	LiteBIRD: Mission Overview and Focal Plane Layout. <i>Journal of Low Temperature Physics</i> , 2016, 184, 824-831.	0.6	70
13	The POLARBEAR experiment. <i>Proceedings of SPIE</i> , 2012, , .	0.8	65
14	Updated Design of the CMB Polarization Experiment Satellite LiteBIRD. <i>Journal of Low Temperature Physics</i> , 2020, 199, 1107-1117.	0.6	64
15	The Simons Observatory: instrument overview. , 2018, , .		56
16	Performance of a continuously rotating half-wave plate on the POLARBEAR telescope. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 008-008.	1.9	41
17	A Measurement of the Degree-scale CMB B-mode Angular Power Spectrum with Polarbear. <i>Astrophysical Journal</i> , 2020, 897, 55.	1.6	41
18	A dual-polarized broadband planar antenna and channelizing filter bank for millimeter wavelengths. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	40

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19	The bolometric focal plane array of the POLARBEAR CMB experiment. Proceedings of SPIE, 2012, , .	0.8	31
20	The Design and Integrated Performance of SPT-3G. Astrophysical Journal, Supplement Series, 2022, 258, 42.	3.0	29
21	SPT-3G: A Multichroic Receiver for the South Pole Telescope. Journal of Low Temperature Physics, 2018, 193, 1057-1065.	0.6	27
22	Multi-chroic Dual-Polarization Bolometric Focal Plane for Studies of the Cosmic Microwave Background. Journal of Low Temperature Physics, 2012, 167, 852-858.	0.6	25
23	Multi-Chroic Dual-Polarization Bolometric Detectors for Studies of the Cosmic Microwave Background. Journal of Low Temperature Physics, 2014, 176, 650-656.	0.6	21
24	Planar Lithographed Superconducting LC Resonators for Frequency-Domain Multiplexed Readout Systems. Journal of Low Temperature Physics, 2016, 184, 486-491.	0.6	21
25	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.	1.6	20
26	Development of the Next Generation of Multi-chroic Antenna-Coupled Transition Edge Sensor Detectors for CMB Polarimetry. Journal of Low Temperature Physics, 2016, 184, 74-81.	0.6	18
27	Measurement of the Cosmic Microwave Background Polarization Lensing Power Spectrum from Two Years of POLARBEAR Data. Astrophysical Journal, 2020, 893, 85.	1.6	18
28	The Simons Observatory Microwave SQUID Multiplexing Detector Module Design. Astrophysical Journal, 2021, 922, 38.	1.6	17
29	Optimization of Transition Edge Sensor Arrays for Cosmic Microwave Background Observations With the South Pole Telescope. IEEE Transactions on Applied Superconductivity, 2017, 27, 1-4.	1.1	16
30	Optical Characterization of the SPT-3G Camera. Journal of Low Temperature Physics, 2018, 193, 305-313.	0.6	16
31	The POLARBEAR-2 and Simons Array Focal Plane Fabrication Status. Journal of Low Temperature Physics, 2018, 193, 758-770.	0.6	16
32	Fabrication of Detector Arrays for the SPT-3G Receiver. Journal of Low Temperature Physics, 2018, 193, 703-711.	0.6	16
33	Optimization study for the experimental configuration of CMB-S4. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 009-009.	1.9	14
34	The Simons Observatory: gain, bandpass and polarization-angle calibration requirements for B-mode searches. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 032.	1.9	14
35	Design Evolution of the Spiderweb TES Bolometer for Cosmology Applications. Journal of Low Temperature Physics, 2012, 167, 885-891.	0.6	13
36	Tuning SPT-3G Transition-Edge-Sensor Electrical Properties with a Four-Layer TiAu/TiAu Thin-Film Stack. Journal of Low Temperature Physics, 2018, 193, 695-702.	0.6	13

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37	Design and Assembly of SPT-3G Cold Readout Hardware. <i>Journal of Low Temperature Physics</i> , 2018, 193, 547-555.	0.6	13
38	BoloCalc: a sensitivity calculator for the design of Simons Observatory. , 2018, , .		13
39	Development of Readout Electronics for POLARBEAR-2 Cosmic Microwave Background Experiment. <i>Journal of Low Temperature Physics</i> , 2016, 184, 512-518.	0.6	12
40	A Large-Diameter Cryogenic Rotation Stage for Half-Wave Plate Polarization Modulation on the POLARBEAR-2 Experiment. <i>Journal of Low Temperature Physics</i> , 2018, 193, 851-859.	0.6	12
41	Measurements of Tropospheric Ice Clouds with a Ground-based CMB Polarization Experiment, POLARBEAR. <i>Astrophysical Journal</i> , 2019, 870, 102.	1.6	11
42	On-Sky Performance of the SPT-3G Frequency-Domain Multiplexed Readout. <i>Journal of Low Temperature Physics</i> , 2020, 199, 182-191.	0.6	11
43	A Log-Periodic Channelizer for Multichroic Antenna-Coupled TES-Bolometers. <i>IEEE Transactions on Applied Superconductivity</i> , 2011, 21, 180-183.	1.1	10
44	The POLARBEAR-2 Experiment. <i>Journal of Low Temperature Physics</i> , 2014, 176, 719-725.	0.6	8
45	Hierarchical sinuous-antenna phased array for millimeter wavelengths. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	8
46	Deployment of Polarbear-2A. <i>Journal of Low Temperature Physics</i> , 2020, 199, 1137-1147.	0.6	8
47	Studies of systematic uncertainties for Simons Observatory: detector array effects. , 2018, , .		8
48	Broadband anti-reflective coatings for cosmic microwave background experiments. , 2018, , .		8
49	Commercialization of Micro-fabrication of Antenna-Coupled Transition Edge Sensor Bolometer Detectors for Studies of the Cosmic Microwave Background. <i>Journal of Low Temperature Physics</i> , 2018, 193, 744-751.	0.6	7
50	The POLARBEAR Fourier transform spectrometer calibrator and spectroscopic characterization of the POLARBEAR instrument. <i>Review of Scientific Instruments</i> , 2019, 90, 115115.	0.6	7
51	Performance of Al ²⁷ Mn Transition-Edge Sensor Bolometers in SPT-3G. <i>Journal of Low Temperature Physics</i> , 2020, 199, 320-329.	0.6	7
52	Recent Advances in Frequency-Multiplexed TES Readout: Vastly Reduced Parasitics and an Increase in Multiplexing Factor with Sub-Kelvin SQUIDs. <i>Journal of Low Temperature Physics</i> , 2020, 199, 754-761.	0.6	7
53	Assembly and Integration Process of the High-Density Detector Array Readout Modules for the Simons Observatory. <i>Journal of Low Temperature Physics</i> , 2020, 199, 985-993.	0.6	7
54	Improved Upper Limit on Degree-scale CMB B-mode Polarization Power from the 670 Square-degree POLARBEAR Survey. <i>Astrophysical Journal</i> , 2022, 931, 101.	1.6	7

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55	Design and Bolometer Characterization of the SPT-3G First-Year Focal Plane. Journal of Low Temperature Physics, 2018, 193, 1085-1093.	0.6	6
56	Concept Study of Optical Configurations for High-Frequency Telescope for LiteBIRD. Journal of Low Temperature Physics, 2018, 193, 841-850.	0.6	6
57	Cross-correlation of CMB Polarization Lensing with High-z Submillimeter Herschel-ATLAS Galaxies. Astrophysical Journal, 2019, 886, 38.	1.6	6
58	Commercially Fabricated Antenna-Coupled Transition Edge Sensor Bolometer Detectors for Next-Generation Cosmic Microwave Background Polarimetry Experiment. Journal of Low Temperature Physics, 2020, 199, 1158-1166.	0.6	6
59	Characterization of Transition Edge Sensors for the Simons Observatory. Journal of Low Temperature Physics, 2020, 199, 672-680.	0.6	6
60	Thermal Links and Microstrip Transmission Lines in SPT-3G Bolometers. Journal of Low Temperature Physics, 2018, 193, 712-719.	0.6	5
61	The Broadband Anti-reflection Coated Extended Hemispherical Silicon Lenses for Polarbear-2 Experiment. Journal of Low Temperature Physics, 2016, 184, 553-558.	0.6	4
62	Detector and Readout Assembly and Characterization for the Simons Array. Journal of Low Temperature Physics, 2018, 193, 1094-1102.	0.6	4
63	Impact of Electrical Contacts Design and Materials on the Stability of Ti Superconducting Transition Shape. Journal of Low Temperature Physics, 2018, 193, 732-738.	0.6	4
64	POLARBEAR-2: a new CMB polarization receiver system for the Simons array (Conference Presentation). , 2018, , .		4
65	Performance and characterization of the SPT-3G digital frequency-domain multiplexed readout system using an improved noise and crosstalk model. Journal of Astronomical Telescopes, Instruments, and Systems, 2022, 8, .	1.0	4
66	The POLARBEAR Cosmic Microwave Background Polarization Experiment. Journal of Low Temperature Physics, 2014, 176, 726-732.	0.6	3
67	Design of a Testbed for the Study of System Interference in Space CMB Polarimetry. Journal of Low Temperature Physics, 2020, 199, 622-630.	0.6	2
68	A Closed-Cycle Miniature Dilution Refrigerator for a Fast-Cooldown 100 mK Detector Wafer Test Cryostat. Journal of Low Temperature Physics, 2020, 199, 771-779.	0.6	2
69	Effect of Stray Impedance in Frequency-Division Multiplexed Readout of TES Sensors in POLARBEAR-2b. Journal of Low Temperature Physics, 2020, 199, 840-848.	0.6	2
70	POLARBEAR CMB Polarization Experiment. , 2014, , .		1
71	Lithographed Superconducting Resonator Development for Next-Generation Frequency Multiplexing Readout of Transition-Edge Sensors. Journal of Low Temperature Physics, 2018, 193, 498-504.	0.6	1
72	Irradiation Tests of Superconducting Detectors and Comparison with Simulations. Journal of Low Temperature Physics, 2020, 199, 118-129.	0.6	1

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73	Integrated Electrical Properties of the Frequency Multiplexed Cryogenic Readout System for Polarbear/Simons Array. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	1
74	Developments of Highly Multiplexed, Multi-chroic Pixels for Balloon-Borne Platforms. Journal of Low Temperature Physics, 2018, 193, 298-304.	0.6	0
75	Commercially Fabricated Low Loss Superconducting Resonators Integrated With Detectors for Frequency Domain Multiplexing Readout of Future Cosmic Microwave Background Experiments. IEEE Transactions on Applied Superconductivity, 2019, 29, 1-4.	1.1	0
76	Results of gravitational lensing and primordial gravitational waves from the POLARBEAR experiment. Journal of Physics: Conference Series, 2020, 1468, 012007.	0.3	0
77	Anomalous Frequency Noise From the Megahertz Channelizing Resonators in Frequency-Division Multiplexed Transition Edge Sensor Readout. IEEE Transactions on Applied Superconductivity, 2021, 31, 1-5.	1.1	0
78	Recent Developments of Commercially Fabricated Horn Antenna-Coupled Transition-Edge Sensor Bolometer Detectors for Next-Generation Cosmic Microwave Background Polarimetry Experiments. Journal of Low Temperature Physics, 0, , 1.	0.6	0