

Aritoki Suzuki

List of Publications by Year in descending order

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78
papers

3,105
citations

331259

21
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161609

54
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78
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78
docs citations

78
times ranked

2002
citing authors

#	ARTICLE	IF	CITATIONS
1	Performance and characterization of the SPT-3G digital frequency-domain multiplexed readout system using an improved noise and crosstalk model. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2022, 8, .	1.0	4
2	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , 2022, 926, 54.	1.6	79
3	The Design and Integrated Performance of SPT-3G. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 42.	3.0	29
4	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
5	The Simons Observatory: gain, bandpass and polarization-angle calibration requirements for B-mode searches. <i>Journal of Cosmology and Astroparticle Physics</i> , 2021, 2021, 032.	1.9	14
6	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
7	Anomalous Frequency Noise From the Megahertz Channelizing Resonators in Frequency-Division Multiplexed Transition Edge Sensor Readout. <i>IEEE Transactions on Applied Superconductivity</i> , 2021, 31, 1-5.	1.1	0
8	Integrated Electrical Properties of the Frequency Multiplexed Cryogenic Readout System for Polarbear/Simons Array. <i>IEEE Transactions on Applied Superconductivity</i> , 2021, 31, 1-5.	1.1	1
9	The Simons Observatory Microwave SQUID Multiplexing Detector Module Design. <i>Astrophysical Journal</i> , 2021, 922, 38.	1.6	17
10	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
11	Performance of Al ϵ Mn Transition-Edge Sensor Bolometers in SPT-3G. <i>Journal of Low Temperature Physics</i> , 2020, 199, 320-329.	0.6	7
12	Deployment of Polarbear-2A. <i>Journal of Low Temperature Physics</i> , 2020, 199, 1137-1147.	0.6	8
13	Updated Design of the CMB Polarization Experiment Satellite LiteBIRD. <i>Journal of Low Temperature Physics</i> , 2020, 199, 1107-1117.	0.6	64
14	Results of gravitational lensing and primordial gravitational waves from the POLARBEAR experiment. <i>Journal of Physics: Conference Series</i> , 2020, 1468, 012007.	0.3	0
15	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
16	Design of a Testbed for the Study of System Interference in Space CMB Polarimetry. <i>Journal of Low Temperature Physics</i> , 2020, 199, 622-630.	0.6	2
17	Commercially Fabricated Antenna-Coupled Transition Edge Sensor Bolometer Detectors for Next-Generation Cosmic Microwave Background Polarimetry Experiment. <i>Journal of Low Temperature Physics</i> , 2020, 199, 1158-1166.	0.6	6
18	A Closed-Cycle Miniature Dilution Refrigerator for a Fast-Cooldown 100 mK Detector Wafer Test Cryostat. <i>Journal of Low Temperature Physics</i> , 2020, 199, 771-779.	0.6	2

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19	Characterization of Transition Edge Sensors for the Simons Observatory. <i>Journal of Low Temperature Physics</i> , 2020, 199, 672-680.	0.6	6
20	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
21	Effect of Stray Impedance in Frequency-Division Multiplexed Readout of TES Sensors in POLARBEAR-2b. <i>Journal of Low Temperature Physics</i> , 2020, 199, 840-848.	0.6	2
22	Irradiation Tests of Superconducting Detectors and Comparison with Simulations. <i>Journal of Low Temperature Physics</i> , 2020, 199, 118-129.	0.6	1
23	Measurement of the Cosmic Microwave Background Polarization Lensing Power Spectrum from Two Years of POLARBEAR Data. <i>Astrophysical Journal</i> , 2020, 893, 85.	1.6	18
24	A Measurement of the Degree-scale CMB B-mode Angular Power Spectrum with Polarbear. <i>Astrophysical Journal</i> , 2020, 897, 55.	1.6	41
25	Evidence for the Cross-correlation between Cosmic Microwave Background Polarization Lensing from Polarbear and Cosmic Shear from Subaru Hyper Suprime-Cam. <i>Astrophysical Journal</i> , 2019, 882, 62.	1.6	20
26	Commercially Fabricated Low Loss Superconducting Resonators Integrated With Detectors for Frequency Domain Multiplexing Readout of Future Cosmic Microwave Background Experiments. <i>IEEE Transactions on Applied Superconductivity</i> , 2019, 29, 1-4.	1.1	0
27	The Simons Observatory: science goals and forecasts. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 056-056.	1.9	741
28	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
29	Cross-correlation of CMB Polarization Lensing with High-z Submillimeter Herschel-ATLAS Galaxies. <i>Astrophysical Journal</i> , 2019, 886, 38.	1.6	6
30	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
31	Measurements of Tropospheric Ice Clouds with a Ground-based CMB Polarization Experiment, POLARBEAR. <i>Astrophysical Journal</i> , 2019, 870, 102.	1.6	11
32	Hierarchical sinuous-antenna phased array for millimeter wavelengths. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	8
33	Tuning SPT-3G Transition-Edge-Sensor Electrical Properties with a Four-Layer TiAu/TiAu Thin-Film Stack. <i>Journal of Low Temperature Physics</i> , 2018, 193, 695-702.	0.6	13
34	Lithographed Superconducting Resonator Development for Next-Generation Frequency Multiplexing Readout of Transition-Edge Sensors. <i>Journal of Low Temperature Physics</i> , 2018, 193, 498-504.	0.6	1
35	Optimization study for the experimental configuration of CMB-S4. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 009-009.	1.9	14
36	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

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37	Detector and Readout Assembly and Characterization for the Simons Array. Journal of Low Temperature Physics, 2018, 193, 1094-1102.	0.6	4
38	Design and Assembly of SPT-3G Cold Readout Hardware. Journal of Low Temperature Physics, 2018, 193, 547-555.	0.6	13
39	Optical Characterization of the SPT-3G Camera. Journal of Low Temperature Physics, 2018, 193, 305-313.	0.6	16
40	A Large-Diameter Cryogenic Rotation Stage for Half-Wave Plate Polarization Modulation on the POLARBEAR-2 Experiment. Journal of Low Temperature Physics, 2018, 193, 851-859.	0.6	12
41	Design and Bolometer Characterization of the SPT-3G First-Year Focal Plane. Journal of Low Temperature Physics, 2018, 193, 1085-1093.	0.6	6
42	The POLARBEAR-2 and Simons Array Focal Plane Fabrication Status. Journal of Low Temperature Physics, 2018, 193, 758-770.	0.6	16
43	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
44	SPT-3G: A Multichroic Receiver for the South Pole Telescope. Journal of Low Temperature Physics, 2018, 193, 1057-1065.	0.6	27
45	Thermal Links and Microstrip Transmission Lines in SPT-3G Bolometers. Journal of Low Temperature Physics, 2018, 193, 712-719.	0.6	5
46	The LiteBIRD Satellite Mission: Sub-Kelvin Instrument. Journal of Low Temperature Physics, 2018, 193, 1048-1056.	0.6	96
47	Developments of Highly Multiplexed, Multi-chroic Pixels for Balloon-Borne Platforms. Journal of Low Temperature Physics, 2018, 193, 298-304.	0.6	0
48	Fabrication of Detector Arrays for the SPT-3G Receiver. Journal of Low Temperature Physics, 2018, 193, 703-711.	0.6	16
49	Concept Study of Optical Configurations for High-Frequency Telescope for LiteBIRD. Journal of Low Temperature Physics, 2018, 193, 841-850.	0.6	6
50	The Simons Observatory: instrument overview. , 2018, , .		56
51	Studies of systematic uncertainties for Simons Observatory: detector array effects. , 2018, , .		8
52	BoloCalc: a sensitivity calculator for the design of Simons Observatory. , 2018, , .		13
53	Broadband anti-reflective coatings for cosmic microwave background experiments. , 2018, , .		8
54	POLARBEAR-2: a new CMB polarization receiver system for the Simons array (Conference Presentation). , 2018, , .		4

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55	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
56	Performance of a continuously rotating half-wave plate on the POLARBEAR telescope. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 008-008.	1.9	41
57	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.	1.6	83
58	Planar Lithographed Superconducting LC Resonators for Frequency-Domain Multiplexed Readout Systems. Journal of Low Temperature Physics, 2016, 184, 486-491.	0.6	21
59	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
60	The Polarbear-2 and the Simons Array Experiments. Journal of Low Temperature Physics, 2016, 184, 805-810.	0.6	139
61	Development of Readout Electronics for POLARBEAR-2 Cosmic Microwave Background Experiment. Journal of Low Temperature Physics, 2016, 184, 512-518.	0.6	12
62	LiteBIRD: Mission Overview and Focal Plane Layout. Journal of Low Temperature Physics, 2016, 184, 824-831.	0.6	70
63	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
64	POLARBEAR CMB Polarization Experiment. , 2014, , .		1
65	SPT-3G: a next-generation cosmic microwave background polarization experiment on the South Pole telescope. Proceedings of SPIE, 2014, , .	0.8	249
66	The POLARBEAR-2 Experiment. Journal of Low Temperature Physics, 2014, 176, 719-725.	0.6	8
67	The POLARBEAR Cosmic Microwave Background Polarization Experiment. Journal of Low Temperature Physics, 2014, 176, 726-732.	0.6	3
68	Evidence for Gravitational Lensing of the Cosmic Microwave Background Polarization from Cross-Correlation with the Cosmic Infrared Background. Physical Review Letters, 2014, 112, 131302.	2.9	81
69	A MEASUREMENT OF THE COSMIC MICROWAVE BACKGROUND <i>B</i> -MODE POLARIZATION POWER SPECTRUM AT SUB-DEGREE SCALES WITH POLARBEAR. Astrophysical Journal, 2014, 794, 171.	1.6	233
70	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
71	Measurement of the Cosmic Microwave Background Polarization Lensing Power Spectrum with the POLARBEAR Experiment. Physical Review Letters, 2014, 113, 021301.	2.9	138
72	A dual-polarized broadband planar antenna and channelizing filter bank for millimeter wavelengths. Applied Physics Letters, 2013, 102, .	1.5	40

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73	The POLARBEAR experiment. Proceedings of SPIE, 2012, , .	0.8	65
74	The bolometric focal plane array of the POLARBEAR CMB experiment. Proceedings of SPIE, 2012, , .	0.8	31
75	Design Evolution of the Spiderweb TES Bolometer for Cosmology Applications. Journal of Low Temperature Physics, 2012, 167, 885-891.	0.6	13
76	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
77	A Log-Periodic Channelizer for Multichroic Antenna-Coupled TES-Bolometers. IEEE Transactions on Applied Superconductivity, 2011, 21, 180-183.	1.1	10
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