

Adrian Lee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8668082/publications.pdf>

Version: 2024-02-01

90
papers

5,874
citations

147566

31
h-index

71532

76
g-index

91
all docs

91
docs citations

91
times ranked

3876
citing authors

#	ARTICLE	IF	CITATIONS
1	CMB/κSZ and Compton-γ Maps from 2500 deg ² of SPT-SZ and Planck Survey Data. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 36.	3.0	22
2	The Design and Integrated Performance of SPT-3G. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 42.	3.0	29
3	The Simons Observatory: A large-diameter truss for a refracting telescope cooled to 1 K. <i>Review of Scientific Instruments</i> , 2022, 93, .	0.6	1
4	Shocks in the stacked Sunyaev-Zel'dovich profiles of clusters II: Measurements from SPT-SZ + Planck Compton-γ map. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 1645-1663.	1.6	15
5	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
6	Improving Cosmological Constraints from Galaxy Cluster Number Counts with CMB-cluster-lensing Data: Results from the SPT-SZ Survey and Forecasts for the Future. <i>Astrophysical Journal</i> , 2022, 931, 139.	1.6	5
7	An Improved Measurement of the Secondary Cosmic Microwave Background Anisotropies from the SPT-SZ + SPTpol Surveys. <i>Astrophysical Journal</i> , 2021, 908, 199.	1.6	52
8	Detection of Galactic and Extragalactic Millimeter-wavelength Transient Sources with SPT-3G. <i>Astrophysical Journal</i> , 2021, 916, 98.	1.6	16
9	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
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-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	Galaxy Clusters Selected via the Sunyaev-Zel'dovich Effect in the SPTpol 100-square-degree Survey. <i>Astronomical Journal</i> , 2020, 159, 110.	1.9	41
15	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
16	Irradiation Tests of Superconducting Detectors and Comparison with Simulations. <i>Journal of Low Temperature Physics</i> , 2020, 199, 118-129.	0.6	1
17	Internal Delensing of Cosmic Microwave Background Polarization $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">B \rangle$ -Modes with the POLARBEAR Experiment. <i>Physical Review Letters</i> , 2020, 124, 131301.	2.9	25
18	Broadband, millimeter-wave antireflection coatings for large-format, cryogenic aluminum oxide optics. <i>Applied Optics</i> , 2020, 59, 3285.	0.9	7

#	ARTICLE	IF	CITATIONS
19	Constraints on Cosmological Parameters from the 500 deg ² SPTPOL Lensing Power Spectrum. <i>Astrophysical Journal</i> , 2020, 888, 119.	1.6	52
20	A Measurement of the Degree-scale CMB B-mode Angular Power Spectrum with Polarbear. <i>Astrophysical Journal</i> , 2020, 897, 55.	1.6	41
21	Millimeter-wave Point Sources from the 2500 Square Degree SPT-SZ Survey: Catalog and Population Statistics. <i>Astrophysical Journal</i> , 2020, 900, 55.	1.6	40
22	The SPTpol Extended Cluster Survey. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 25.	3.0	101
23	A cryogenic continuously rotating half-wave plate mechanism for the POLARBEAR-2b cosmic microwave background receiver. <i>Review of Scientific Instruments</i> , 2020, 91, 124503.	0.6	11
24	A Measurement of the CMB E-mode Angular Power Spectrum at Subdegree Scales from 670 Square Degrees of POLARBEAR Data. <i>Astrophysical Journal</i> , 2020, 904, 65.	1.6	27
25	Measurements of the Cross-spectra of the Cosmic Infrared and Microwave Backgrounds from 95 to 1200 GHz. <i>Astrophysical Journal</i> , 2019, 881, 96.	1.6	8
26	Fractional polarization of extragalactic sources in the 500 deg ² SPTpol survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 5712-5721.	1.6	20
27	Detection of CMB-Cluster Lensing using Polarization Data from SPTpol. <i>Physical Review Letters</i> , 2019, 123, 181301.	2.9	12
28	Cosmological lensing ratios with DES Y1, SPT, and Planck. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 1363-1379.	1.6	16
29	Cluster Cosmology Constraints from the 2500 deg ² SPT-SZ Survey: Inclusion of Weak Gravitational Lensing Data from Magellan and the Hubble Space Telescope. <i>Astrophysical Journal</i> , 2019, 878, 55.	1.6	211
30	Mass Calibration of Optically Selected DES Clusters Using a Measurement of CMB-cluster Lensing with SPTpol Data. <i>Astrophysical Journal</i> , 2019, 872, 170.	1.6	28
31	The Simons Observatory: science goals and forecasts. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 056-056.	1.9	741
32	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
33	A Measurement of the Cosmic Microwave Background Lensing Potential and Power Spectrum from 500 deg ² of SPTpol Temperature and Polarization Data. <i>Astrophysical Journal</i> , 2019, 884, 70.	1.6	71
34	Measurements of Tropospheric Ice Clouds with a Ground-based CMB Polarization Experiment, POLARBEAR. <i>Astrophysical Journal</i> , 2019, 870, 102.	1.6	11
35	Tuning SPT-3G Transition-Edge-Sensor Electrical Properties with a Four-Layer TiAu Thin-Film Stack. <i>Journal of Low Temperature Physics</i> , 2018, 193, 695-702.	0.6	13
36	Measurements of the Temperature and E-mode Polarization of the CMB from 500 Square Degrees of SPTpol Data. <i>Astrophysical Journal</i> , 2018, 852, 97.	1.6	145

#	ARTICLE	IF	CITATIONS
37	A Comparison of Maps and Power Spectra Determined from South Pole Telescope and Planck Data. <i>Astrophysical Journal</i> , 2018, 853, 3.	1.6	18
38	Detector and Readout Assembly and Characterization for the Simons Array. <i>Journal of Low Temperature Physics</i> , 2018, 193, 1094-1102.	0.6	4
39	Design and Assembly of SPT-3G Cold Readout Hardware. <i>Journal of Low Temperature Physics</i> , 2018, 193, 547-555.	0.6	13
40	Optical Characterization of the SPT-3G Camera. <i>Journal of Low Temperature Physics</i> , 2018, 193, 305-313.	0.6	16
41	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
42	Maps of the Southern Millimeter-wave Sky from Combined 2500 deg ² SPT-SZ and Planck Temperature Data. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 10.	3.0	28
43	Design and Bolometer Characterization of the SPT-3G First-Year Focal Plane. <i>Journal of Low Temperature Physics</i> , 2018, 193, 1085-1093.	0.6	6
44	The POLARBEAR-2 and Simons Array Focal Plane Fabrication Status. <i>Journal of Low Temperature Physics</i> , 2018, 193, 758-770.	0.6	16
45	SPT-3G: A Multichroic Receiver for the South Pole Telescope. <i>Journal of Low Temperature Physics</i> , 2018, 193, 1057-1065.	0.6	27
46	Thermal Links and Microstrip Transmission Lines in SPT-3G Bolometers. <i>Journal of Low Temperature Physics</i> , 2018, 193, 712-719.	0.6	5
47	The LiteBIRD Satellite Mission: Sub-Kelvin Instrument. <i>Journal of Low Temperature Physics</i> , 2018, 193, 1048-1056.	0.6	96
48	Fabrication of Detector Arrays for the SPT-3G Receiver. <i>Journal of Low Temperature Physics</i> , 2018, 193, 703-711.	0.6	16
49	Concept Study of Optical Configurations for High-Frequency Telescope for LiteBIRD. <i>Journal of Low Temperature Physics</i> , 2018, 193, 841-850.	0.6	6
50	Design and characterization of the SPT-3G receiver. , 2018, , .		9
51	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
52	Temperature calibration of the E and B Experiment. , 2017, , .		2
53	MILLIMETER TRANSIENT POINT SOURCES IN THE SPTpol 100 SQUARE DEGREE SURVEY. <i>Astrophysical Journal</i> , 2016, 830, 143.	1.6	19
54	MAPS OF THE MAGELLANIC CLOUDS FROM COMBINED SOUTH POLE TELESCOPE AND PLANCK DATA. <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 23.	3.0	10

#	ARTICLE	IF	CITATIONS
55	Integrated performance of a frequency domain multiplexing readout in the SPT-3G receiver. Proceedings of SPIE, 2016, , .	0.8	15
56	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
57	The Simons Array CMB polarization experiment. Proceedings of SPIE, 2016, , .	0.8	18
58	MODELING ATMOSPHERIC EMISSION FOR CMB GROUND-BASED OBSERVATIONS. Astrophysical Journal, 2015, 809, 63.	1.6	27
59	Analysis of Sunyaev-Zel'dovich effect mass-observable relations using South Pole Telescope observations of an X-ray selected sample of low-mass galaxy clusters and groups. Monthly Notices of the Royal Astronomical Society, 2015, 448, 2085-2099.	1.6	18
60	A MEASUREMENT OF SECONDARY COSMIC MICROWAVE BACKGROUND ANISOTROPIES FROM THE 2500 SQUARE-DEGREE SPT-SZ SURVEY. Astrophysical Journal, 2015, 799, 177.	1.6	183
61	GALAXY CLUSTERS DISCOVERED VIA THE SUNYAEV-ZEL'DOVICH EFFECT IN THE 2500-SQUARE-DEGREE SPT-SZ SURVEY. Astrophysical Journal, Supplement Series, 2015, 216, 27.	3.0	464
62	Fabrication of large dual-polarized multichroic TES bolometer arrays for CMB measurements with the SPT-3G camera. Superconductor Science and Technology, 2015, 28, 094002.	1.8	29
63	POLARBEAR CMB Polarization Experiment. , 2014, , .		1
64	SPT-3G: a next-generation cosmic microwave background polarization experiment on the South Pole telescope. Proceedings of SPIE, 2014, , .	0.8	249
65	A MEASUREMENT OF THE SECONDARY-CMB AND MILLIMETER-WAVE-FOREGROUND BISPECTRUM USING 800 deg ² OF SOUTH POLE TELESCOPE DATA. Astrophysical Journal, 2014, 784, 143.	1.6	49
66	The POLARBEAR Cosmic Microwave Background Polarization Experiment. Journal of Low Temperature Physics, 2014, 176, 726-732.	0.6	3
67	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
68	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
69	Measurement of the Cosmic Microwave Background Polarization Lensing Power Spectrum with the POLARBEAR Experiment. Physical Review Letters, 2014, 113, 021301.	2.9	138
70	A COSMIC MICROWAVE BACKGROUND LENSING MASS MAP AND ITS CORRELATION WITH THE COSMIC INFRARED BACKGROUND. Astrophysical Journal Letters, 2013, 771, L16.	3.0	76
71	A MEASUREMENT OF THE COSMIC MICROWAVE BACKGROUND DAMPING TAIL FROM THE 2500-SQUARE-DEGREE SPT-SZ SURVEY. Astrophysical Journal, 2013, 779, 86.	1.6	240
72	Frequency multiplexed superconducting quantum interference device readout of large bolometer arrays for cosmic microwave background measurements. Review of Scientific Instruments, 2012, 83, 073113.	0.6	110

#	ARTICLE	IF	CITATIONS
73	The bolometric focal plane array of the POLARBEAR CMB experiment. Proceedings of SPIE, 2012, , .	0.8	31
74	Performance and on-sky optical characterization of the SPTpol instrument. Proceedings of SPIE, 2012, , .	0.8	16
75	South Pole Telescope software systems: control, monitoring, and data acquisition. Proceedings of SPIE, 2012, , .	0.8	10
76	SPTpol: an instrument for CMB polarization measurements with the South Pole Telescope. Proceedings of SPIE, 2012, , .	0.8	98
77	The 10 Meter South Pole Telescope. Publications of the Astronomical Society of the Pacific, 2011, 123, 568-581.	1.0	496
78	THE FIRST PUBLIC RELEASE OF SOUTH POLE TELESCOPE DATA: MAPS OF A 95 deg²FIELD FROM 2008 OBSERVATIONS. Astrophysical Journal, 2011, 743, 90.	1.6	81
79	DISCOVERY AND COSMOLOGICAL IMPLICATIONS OF SPT-CL J2106-5844, THE MOST MASSIVE KNOWN CLUSTER AT z>1. Astrophysical Journal, 2011, 731, 86.	1.6	104
80	A MEASUREMENT OF THE DAMPING TAIL OF THE COSMIC MICROWAVE BACKGROUND POWER SPECTRUM WITH THE SOUTH POLE TELESCOPE. Astrophysical Journal, 2011, 743, 28.	1.6	433
81	SUNYAEV&ZEL&DOVICH CLUSTER PROFILES MEASURED WITH THE SOUTH POLE TELESCOPE. Astrophysical Journal, 2010, 716, 1118-1135.	1.6	117
82	GALAXY CLUSTERS DISCOVERED WITH A SUNYAEV-ZEL'DOVICH EFFECT SURVEY. Astrophysical Journal, 2009, 701, 32-41.	1.6	228
83	Further Optimization of the APEX-SZ TES Bolometer Array. , 2009, , .		3
84	SPT-SZ: a Sunyaev-Zeldovich survey for galaxy clusters. , 2009, , .		1
85	Antenna-Coupled Bolometer Arrays for Measurement of the Cosmic Microwave Background Polarization. Journal of Low Temperature Physics, 2008, 151, 464-470.	0.6	13
86	A Multi-Band Dual-Polarized Antenna-Coupled TES Bolometer. Journal of Low Temperature Physics, 2008, 151, 459-463.	0.6	15
87	South Pole Telescope optics. Applied Optics, 2008, 47, 4418.	2.1	59
88	New technologies for the detection of millimeter and submillimeter waves. AIP Conference Proceedings, 2002, , .	0.3	0
89	The MAXIMA and MAXIPOL experiments. AIP Conference Proceedings, 2002, , .	0.3	2
90	BOOMERanG: a scanning telescope for 10 arcminutes resolution CMB maps. , 1999, , .		1