

# Adrian Lee

## List of Publications by Year in descending order

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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	The Simons Observatory: science goals and forecasts. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 056-056.	1.9	741
2	The 10 Meter South Pole Telescope. <i>Publications of the Astronomical Society of the Pacific</i> , 2011, 123, 568-581.	1.0	496
3	GALAXY CLUSTERS DISCOVERED VIA THE SUNYAEV-ZEL'DOVICH EFFECT IN THE 2500-SQUARE-DEGREE SPT-SZ SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2015, 216, 27.	3.0	464
4	A MEASUREMENT OF THE DAMPING TAIL OF THE COSMIC MICROWAVE BACKGROUND POWER SPECTRUM WITH THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal</i> , 2011, 743, 28.	1.6	433
5	SPT-3G: a next-generation cosmic microwave background polarization experiment on the South Pole telescope. <i>Proceedings of SPIE</i> , 2014, , .	0.8	249
6	A MEASUREMENT OF THE COSMIC MICROWAVE BACKGROUND DAMPING TAIL FROM THE 2500-SQUARE-DEGREE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2013, 779, 86.	1.6	240
7	GALAXY CLUSTERS DISCOVERED WITH A SUNYAEV-ZEL'DOVICH EFFECT SURVEY. <i>Astrophysical Journal</i> , 2009, 701, 32-41.	1.6	228
8	Cluster Cosmology Constraints from the 2500 deg <sup>2</sup> 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
9	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
10	A MEASUREMENT OF SECONDARY COSMIC MICROWAVE BACKGROUND ANISOTROPIES FROM THE 2500 SQUARE-DEGREE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2015, 799, 177.	1.6	183
11	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
12	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
13	SUNYAEV-ZEL'DOVICH CLUSTER PROFILES MEASURED WITH THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal</i> , 2010, 716, 1118-1135.	1.6	117
14	Frequency multiplexed superconducting quantum interference device readout of large bolometer arrays for cosmic microwave background measurements. <i>Review of Scientific Instruments</i> , 2012, 83, 073113.	0.6	110
15	DISCOVERY AND COSMOLOGICAL IMPLICATIONS OF SPT-CL J2106-5844, THE MOST MASSIVE KNOWN CLUSTER AT $z \approx 1$ . <i>Astrophysical Journal</i> , 2011, 731, 86.	1.6	104
16	The SPTpol Extended Cluster Survey. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 25.	3.0	101
17	SPTpol: an instrument for CMB polarization measurements with the South Pole Telescope. <i>Proceedings of SPIE</i> , 2012, , .	0.8	98
18	The LiteBIRD Satellite Mission: Sub-Kelvin Instrument. <i>Journal of Low Temperature Physics</i> , 2018, 193, 1048-1056.	0.6	96

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19	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
20	THE FIRST PUBLIC RELEASE OF SOUTH POLE TELESCOPE DATA: MAPS OF A 95 deg <sup>2</sup> FIELD FROM 2008 OBSERVATIONS. <i>Astrophysical Journal</i> , 2011, 743, 90.	1.6	81
21	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
22	A COSMIC MICROWAVE BACKGROUND LENSING MASS MAP AND ITS CORRELATION WITH THE COSMIC INFRARED BACKGROUND. <i>Astrophysical Journal Letters</i> , 2013, 771, L16.	3.0	76
23	A Measurement of the Cosmic Microwave Background Lensing Potential and Power Spectrum from 500 deg <sup>2</sup> of SPTpol Temperature and Polarization Data. <i>Astrophysical Journal</i> , 2019, 884, 70.	1.6	71
24	Updated Design of the CMB Polarization Experiment Satellite LiteBIRD. <i>Journal of Low Temperature Physics</i> , 2020, 199, 1107-1117.	0.6	64
25	South Pole Telescope optics. <i>Applied Optics</i> , 2008, 47, 4418.	2.1	59
26	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
27	Constraints on Cosmological Parameters from the 500 deg <sup>2</sup> SPTPOL Lensing Power Spectrum. <i>Astrophysical Journal</i> , 2020, 888, 119.	1.6	52
28	A MEASUREMENT OF THE SECONDARY-CMB AND MILLIMETER-WAVE-FOREGROUND BISPECTRUM USING 800 deg <sup>2</sup> OF SOUTH POLE TELESCOPE DATA. <i>Astrophysical Journal</i> , 2014, 784, 143.	1.6	49
29	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
30	A Measurement of the Degree-scale CMB B-mode Angular Power Spectrum with Polarbear. <i>Astrophysical Journal</i> , 2020, 897, 55.	1.6	41
31	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
32	The bolometric focal plane array of the POLARBEAR CMB experiment. <i>Proceedings of SPIE</i> , 2012, , .	0.8	31
33	Fabrication of large dual-polarized multichroic TES bolometer arrays for CMB measurements with the SPT-3G camera. <i>Superconductor Science and Technology</i> , 2015, 28, 094002.	1.8	29
34	The Design and Integrated Performance of SPT-3G. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 42.	3.0	29
35	Maps of the Southern Millimeter-wave Sky from Combined 2500 deg <sup>2</sup> SPT-SZ and <i>Planck</i> Temperature Data. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 10.	3.0	28
36	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

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37	MODELING ATMOSPHERIC EMISSION FOR CMB GROUND-BASED OBSERVATIONS. <i>Astrophysical Journal</i> , 2015, 809, 63.	1.6	27
38	SPT-3G: A Multichroic Receiver for the South Pole Telescope. <i>Journal of Low Temperature Physics</i> , 2018, 193, 1057-1065.	0.6	27
39	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
40	Internal Delensing of Cosmic Microwave Background Polarization $\langle \text{mml:mi} \rangle \text{B} \langle \text{mml:mi} \rangle$ -Modes with the POLARBEAR Experiment. <i>Physical Review Letters</i> , 2020, 124, 131301.	2.9	25
41	CMB/ $kSZ$ and Compton- $\gamma$ Maps from 2500 deg <sup>2</sup> of SPT-SZ and Planck Survey Data. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 36.	3.0	22
42	Multi-Chroic Dual-Polarization Bolometric Detectors for Studies of the Cosmic Microwave Background. <i>Journal of Low Temperature Physics</i> , 2014, 176, 650-656.	0.6	21
43	Fractional polarization of extragalactic sources in the 500 deg <sup>2</sup> SPTpol survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 5712-5721.	1.6	20
44	MILLIMETER TRANSIENT POINT SOURCES IN THE SPTpol 100 SQUARE DEGREE SURVEY. <i>Astrophysical Journal</i> , 2016, 830, 143.	1.6	19
45	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. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 2085-2099.	1.6	18
46	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
47	The Simons Array CMB polarization experiment. <i>Proceedings of SPIE</i> , 2016, , .	0.8	18
48	Performance and on-sky optical characterization of the SPTpol instrument. <i>Proceedings of SPIE</i> , 2012, , .	0.8	16
49	Optical Characterization of the SPT-3G Camera. <i>Journal of Low Temperature Physics</i> , 2018, 193, 305-313.	0.6	16
50	The POLARBEAR-2 and Simons Array Focal Plane Fabrication Status. <i>Journal of Low Temperature Physics</i> , 2018, 193, 758-770.	0.6	16
51	Fabrication of Detector Arrays for the SPT-3G Receiver. <i>Journal of Low Temperature Physics</i> , 2018, 193, 703-711.	0.6	16
52	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
53	Detection of Galactic and Extragalactic Millimeter-wavelength Transient Sources with SPT-3G. <i>Astrophysical Journal</i> , 2021, 916, 98.	1.6	16
54	A Multi-Band Dual-Polarized Antenna-Coupled TES Bolometer. <i>Journal of Low Temperature Physics</i> , 2008, 151, 459-463.	0.6	15

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55	Integrated performance of a frequency domain multiplexing readout in the SPT-3G receiver. Proceedings of SPIE, 2016, , .	0.8	15
56	Shocks in the stacked Sunyaev-Zelâ€™dovich profiles of clusters II: Measurements from SPT-SZ +Â€Planck</i> Compton-<i>y</i> map. Monthly Notices of the Royal Astronomical Society, 2022, 514, 1645-1663.	1.6	15
57	Antenna-Coupled Bolometer Arrays for Measurement ofÂ€theÂ€Cosmic Microwave BackgroundÂ€Polarization. Journal of Low Temperature Physics, 2008, 151, 464-470.	0.6	13
58	Tuning SPT-3G Transition-Edge-Sensor Electrical Properties with a Four-Layer TiÂ€AuÂ€TiÂ€Au Thin-Film Stack. Journal of Low Temperature Physics, 2018, 193, 695-702.	0.6	13
59	Design and Assembly of SPT-3G Cold Readout Hardware. Journal of Low Temperature Physics, 2018, 193, 547-555.	0.6	13
60	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
61	Detection of CMB-Cluster Lensing using Polarization Data from SPTpol. Physical Review Letters, 2019, 123, 181301.	2.9	12
62	Measurements of Tropospheric Ice Clouds with a Ground-based CMB Polarization Experiment, POLARBEAR. Astrophysical Journal, 2019, 870, 102.	1.6	11
63	On-Sky Performance of the SPT-3G Frequency-Domain Multiplexed Readout. Journal of Low Temperature Physics, 2020, 199, 182-191.	0.6	11
64	A cryogenic continuously rotating half-wave plate mechanism for the POLARBEAR-2b cosmic microwave background receiver. Review of Scientific Instruments, 2020, 91, 124503.	0.6	11
65	South Pole Telescope software systems: control, monitoring, and data acquisition. Proceedings of SPIE, 2012, , .	0.8	10
66	MAPS OF THE MAGELLANIC CLOUDS FROM COMBINED SOUTH POLE TELESCOPE AND PLANCK DATA. Astrophysical Journal, Supplement Series, 2016, 227, 23.	3.0	10
67	Design and characterization of the SPT-3G receiver. , 2018, , .		9
68	Measurements of the Cross-spectra of the Cosmic Infrared and Microwave Backgrounds from 95 to 1200 GHz. Astrophysical Journal, 2019, 881, 96.	1.6	8
69	Deployment of Polarbear-2A. Journal of Low Temperature Physics, 2020, 199, 1137-1147.	0.6	8
70	Performance of AlÂ€Mn Transition-Edge Sensor Bolometers in SPT-3G. Journal of Low Temperature Physics, 2020, 199, 320-329.	0.6	7
71	Broadband, millimeter-wave antireflection coatings for large-format, cryogenic aluminum oxide optics. Applied Optics, 2020, 59, 3285.	0.9	7
72	Improved Upper Limit on Degree-scale CMB B-mode Polarization Power from the 670 Square-degree POLARBEAR Survey. Astrophysical Journal, 2022, 931, 101.	1.6	7

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73	Design and Bolometer Characterization of the SPT-3G First-Year Focal Plane. Journal of Low Temperature Physics, 2018, 193, 1085-1093.	0.6	6
74	Concept Study of Optical Configurations for High-Frequency Telescope for LiteBIRD. Journal of Low Temperature Physics, 2018, 193, 841-850.	0.6	6
75	Thermal Links and Microstrip Transmission Lines in SPT-3G Bolometers. Journal of Low Temperature Physics, 2018, 193, 712-719.	0.6	5
76	Improving Cosmological Constraints from Galaxy Cluster Number Counts with CMB-cluster-lensing Data: Results from the SPT-SZ Survey and Forecasts for the Future. Astrophysical Journal, 2022, 931, 139.	1.6	5
77	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
78	Detector and Readout Assembly and Characterization for the Simons Array. Journal of Low Temperature Physics, 2018, 193, 1094-1102.	0.6	4
79	Further Optimization of the APEX-SZ TES Bolometer Array. , 2009, , .		3
80	The POLARBEAR Cosmic Microwave Background Polarization Experiment. Journal of Low Temperature Physics, 2014, 176, 726-732.	0.6	3
81	The MAXIMA and MAXIPOL experiments. AIP Conference Proceedings, 2002, , .	0.3	2
82	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
83	Temperature calibration of the E and B Experiment. , 2017, , .		2
84	BOOMERanG: a scanning telescope for 10 arcminutes resolution CMB maps. , 1999, , .		1
85	SPT-SZ: a Sunyaev-ZePdvovich survey for galaxy clusters. , 2009, , .		1
86	POLARBEAR CMB Polarization Experiment. , 2014, , .		1
87	Irradiation Tests of Superconducting Detectors and Comparison with Simulations. Journal of Low Temperature Physics, 2020, 199, 118-129.	0.6	1
88	The Simons Observatory: A large-diameter truss for a refracting telescope cooled to 1 K. Review of Scientific Instruments, 2022, 93, .	0.6	1
89	New technologies for the detection of millimeter and submillimeter waves. AIP Conference Proceedings, 2002, , .	0.3	0
90	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