

Matt Dobbs

List of Publications by Year in descending order

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171
papers

12,301
citations

25034
57
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107
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178
all docs

178
docs citations

178
times ranked

7165
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.	5.4	741
2	The 10 Meter South Pole Telescope. <i>Publications of the Astronomical Society of the Pacific</i> , 2011, 123, 568-581.	3.1	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.	7.7	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.	4.5	433
5	GALAXY CLUSTERS SELECTED WITH THE SUNYAEV-ZEL'DOVICH EFFECT FROM 2008 SOUTH POLE TELESCOPE OBSERVATIONS. <i>Astrophysical Journal</i> , 2010, 722, 1180-1196.	4.5	285
6	Detection of B -Mode Polarization in the Cosmic Microwave Background with Data from the South Pole Telescope. <i>Physical Review Letters</i> , 2013, 111, 141301.	7.8	280
7	Dusty starburst galaxies in the early Universe as revealed by gravitational lensing. <i>Nature</i> , 2013, 495, 344-347.	27.8	255
8	EXTRAGALACTIC MILLIMETER-WAVE SOURCES IN SOUTH POLE TELESCOPE SURVEY DATA: SOURCE COUNTS, CATALOG, AND STATISTICS FOR AN 87 SQUARE-DEGREE FIELD. <i>Astrophysical Journal</i> , 2010, 719, 763-783.	4.5	252
9	SPT-3G: a next-generation cosmic microwave background polarization experiment on the South Pole telescope. <i>Proceedings of SPIE</i> , 2014, , .	0.8	249
10	A MEASUREMENT OF THE COSMIC MICROWAVE BACKGROUND DAMPING TAIL FROM THE 2500-SQUARE-DEGREE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2013, 779, 86.	4.5	240
11	GALAXY CLUSTERS DISCOVERED VIA THE SUNYAEV-ZEL'DOVICH EFFECT IN THE FIRST 720 SQUARE DEGREES OF THE SOUTH POLE TELESCOPE SURVEY. <i>Astrophysical Journal</i> , 2013, 763, 127.	4.5	240
12	ALMA REDSHIFTS OF MILLIMETER-SELECTED GALAXIES FROM THE SPT SURVEY: THE REDSHIFT DISTRIBUTION OF DUSTY STAR-FORMING GALAXIES. <i>Astrophysical Journal</i> , 2013, 767, 88.	4.5	232
13	GALAXY CLUSTERS DISCOVERED WITH A SUNYAEV-ZEL'DOVICH EFFECT SURVEY. <i>Astrophysical Journal</i> , 2009, 701, 32-41.	4.5	228
14	A MEASUREMENT OF SECONDARY COSMIC MICROWAVE BACKGROUND ANISOTROPIES WITH TWO YEARS OF SOUTH POLE TELESCOPE OBSERVATIONS. <i>Astrophysical Journal</i> , 2012, 755, 70.	4.5	228
15	A SUNYAEV-ZEL'DOVICH-SELECTED SAMPLE OF THE MOST MASSIVE GALAXY CLUSTERS IN THE 2500 deg ² SOUTH POLE TELESCOPE SURVEY. <i>Astrophysical Journal</i> , 2011, 738, 139.	4.5	213
16	A MEASUREMENT OF GRAVITATIONAL LENSING OF THE MICROWAVE BACKGROUND USING SOUTH POLE TELESCOPE DATA. <i>Astrophysical Journal</i> , 2012, 756, 142.	4.5	212
17	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.	4.5	211
18	COSMOLOGICAL CONSTRAINTS FROM SUNYAEV-ZEL'DOVICH-SELECTED CLUSTERS WITH X-RAY OBSERVATIONS IN THE FIRST 178 deg ² OF THE SOUTH POLE TELESCOPE SURVEY. <i>Astrophysical Journal</i> , 2013, 763, 147.	4.5	206

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19	The First CHIME/FRB Fast Radio Burst Catalog. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 59.	7.7	199
20	The South Pole Telescope. , 2004, , .		191
21	CONSTRAINTS ON COSMOLOGY FROM THE COSMIC MICROWAVE BACKGROUND POWER SPECTRUM OF THE 2500 deg ² SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2014, 782, 74.	4.5	189
22	The HepMC C++ Monte Carlo event record for High Energy Physics. <i>Computer Physics Communications</i> , 2001, 134, 41-46.	7.5	187
23	A MEASUREMENT OF SECONDARY COSMIC MICROWAVE BACKGROUND ANISOTROPIES FROM THE 2500 SQUARE-DEGREE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2015, 799, 177.	4.5	183
24	COSMOLOGICAL CONSTRAINTS FROM GALAXY CLUSTERS IN THE 2500 SQUARE-DEGREE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2016, 832, 95.	4.5	179
25	A massive, cooling-flow-induced starburst in the core of a luminous cluster of galaxies. <i>Nature</i> , 2012, 488, 349-352.	27.8	154
26	MEASUREMENTS OF SECONDARY COSMIC MICROWAVE BACKGROUND ANISOTROPIES WITH THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal</i> , 2010, 719, 1045-1066.	4.5	145
27	Canadian Hydrogen Intensity Mapping Experiment (CHIME) pathfinder. <i>Proceedings of SPIE</i> , 2014, , .	0.8	145
28	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.	4.5	145
29	THE GROWTH OF COOL CORES AND EVOLUTION OF COOLING PROPERTIES IN A SAMPLE OF 83 GALAXY CLUSTERS AT 0.3 z 1.2 SELECTED FROM THE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2013, 774, 23.	4.5	144
30	X-RAY PROPERTIES OF THE FIRST SUNYAEV-ZEL'DOVICH EFFECT SELECTED GALAXY CLUSTER SAMPLE FROM THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal</i> , 2011, 738, 48.	4.5	137
31	COSMIC MICROWAVE BACKGROUND CONSTRAINTS ON THE DURATION AND TIMING OF REIONIZATION FROM THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal</i> , 2012, 756, 65.	4.5	128
32	ANGULAR POWER SPECTRA OF THE MILLIMETER-WAVELENGTH BACKGROUND LIGHT FROM DUSTY STAR-FORMING GALAXIES WITH THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal</i> , 2010, 718, 632-646.	4.5	122
33	MASS CALIBRATION AND COSMOLOGICAL ANALYSIS OF THE SPT-SZ GALAXY CLUSTER SAMPLE USING VELOCITY DISPERSION AND X-RAY MEASUREMENTS. <i>Astrophysical Journal</i> , 2015, 799, 214.	4.5	120
34	SUNYAEV-ZEL'DOVICH CLUSTER PROFILES MEASURED WITH THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal</i> , 2010, 716, 1118-1135.	4.5	117
35	MEASUREMENTS OF SUB-DEGREE MODE POLARIZATION IN THE COSMIC MICROWAVE BACKGROUND FROM 100 SQUARE DEGREES OF SPTPOL DATA. <i>Astrophysical Journal</i> , 2015, 807, 151.	4.5	117
36	EXTRAGALACTIC MILLIMETER-WAVE POINT-SOURCE CATALOG, NUMBER COUNTS AND STATISTICS FROM 771 deg ² OF THE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2013, 779, 61.	4.5	115

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37	Frequency multiplexed superconducting quantum interference device readout of large bolometer arrays for cosmic microwave background measurements. Review of Scientific Instruments, 2012, 83, 073113.	1.3	110
38	ALMA OBSERVATIONS OF SPT-DISCOVERED, STRONGLY LENSED, DUSTY, STAR-FORMING GALAXIES. Astrophysical Journal, 2013, 767, 132.	4.5	109
39	DISCOVERY AND COSMOLOGICAL IMPLICATIONS OF SPT-CL J2106-5844, THE MOST MASSIVE KNOWN CLUSTER AT $z \geq 1$. Astrophysical Journal, 2011, 731, 86.	4.5	104
40	OPTICAL SPECTROSCOPY AND VELOCITY DISPERSIONS OF GALAXY CLUSTERS FROM THE SPT-SZ SURVEY. Astrophysical Journal, 2014, 792, 45.	4.5	103
41	The SPTpol Extended Cluster Survey. Astrophysical Journal, Supplement Series, 2020, 247, 25.	7.7	101
42	A MEASUREMENT OF THE COSMIC MICROWAVE BACKGROUND GRAVITATIONAL LENSING POTENTIAL FROM 100 SQUARE DEGREES OF SPTPOL DATA. Astrophysical Journal, 2015, 810, 50.	4.5	99
43	SPTpol: an instrument for CMB polarization measurements with the South Pole Telescope. Proceedings of SPIE, 2012, , .	0.8	98
44	SPT-CL J0546-5345: A MASSIVE $z \geq 1$ GALAXY CLUSTER SELECTED VIA THE SUNYAEV-ZEL'DOVICH EFFECT WITH THE SOUTH POLE TELESCOPE. Astrophysical Journal, 2010, 721, 90-97.	4.5	94
45	THE REDSHIFT EVOLUTION OF THE MEAN TEMPERATURE, PRESSURE, AND ENTROPY PROFILES IN 80 SPT-SELECTED GALAXY CLUSTERS. Astrophysical Journal, 2014, 794, 67.	4.5	90
46	REDSHIFTS, SAMPLE PURITY, AND BCG POSITIONS FOR THE GALAXY CLUSTER CATALOG FROM THE FIRST 720 SQUARE DEGREES OF THE SOUTH POLE TELESCOPE SURVEY. Astrophysical Journal, 2012, 761, 22.	4.5	89
47	IMPROVED CONSTRAINTS ON COSMIC MICROWAVE BACKGROUND SECONDARY ANISOTROPIES FROM THE COMPLETE 2008 SOUTH POLE TELESCOPE DATA. Astrophysical Journal, 2011, 736, 61.	4.5	86
48	THE FIRST PUBLIC RELEASE OF SOUTH POLE TELESCOPE DATA: MAPS OF A 95 deg^2 FIELD FROM 2008 OBSERVATIONS. Astrophysical Journal, 2011, 743, 90.	4.5	81
49	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. Astrophysical Journal, 2022, 926, 54.	4.5	79
50	POLARBEAR constraints on cosmic birefringence and primordial magnetic fields. Physical Review D, 2015, 92, .	4.7	78
51	A MEASUREMENT OF THE CORRELATION OF GALAXY SURVEYS WITH CMB LENSING CONVERGENCE MAPS FROM THE SOUTH POLE TELESCOPE. Astrophysical Journal Letters, 2012, 753, L9.	8.3	76
52	A COSMIC MICROWAVE BACKGROUND LENSING MASS MAP AND ITS CORRELATION WITH THE COSMIC INFRARED BACKGROUND. Astrophysical Journal Letters, 2013, 771, L16.	8.3	76
53	A Measurement of the Cosmic Microwave Background Lensing Potential and Power Spectrum from 500 deg^2 of SPTpol Temperature and Polarization Data. Astrophysical Journal, 2019, 884, 70.	4.5	71
54	EBEX: a balloon-borne CMB polarization experiment. Proceedings of SPIE, 2010, , .	0.8	68

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55	SUBMILLIMETER OBSERVATIONS OF MILLIMETER BRIGHT GALAXIES DISCOVERED BY THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal</i> , 2012, 756, 101.	4.5	67
56	A MEASUREMENT OF GRAVITATIONAL LENSING OF THE COSMIC MICROWAVE BACKGROUND BY GALAXY CLUSTERS USING DATA FROM THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal</i> , 2015, 806, 247.	4.5	66
57	South Pole Telescope optics. <i>Applied Optics</i> , 2008, 47, 4418.	2.1	59
58	OPTICAL REDSHIFT AND RICHNESS ESTIMATES FOR GALAXY CLUSTERS SELECTED WITH THE SUNYAEV-Zel'dovich EFFECT FROM 2008 SOUTH POLE TELESCOPE OBSERVATIONS. <i>Astrophysical Journal</i> , 2010, 723, 1736-1747.	4.5	59
59	LiteBIRD: a small satellite for the study of B-mode polarization and inflation from cosmic background radiation detection. <i>Proceedings of SPIE</i> , 2012, , .	0.8	54
60	SPT-CL J0205+5829: A $z = 1.32$ EVOLVED MASSIVE GALAXY CLUSTER IN THE SOUTH POLE TELESCOPE SUNYAEV-ZEL'DOVICH EFFECT SURVEY. <i>Astrophysical Journal</i> , 2013, 763, 93.	4.5	54
61	A Comparison of Cosmological Parameters Determined from CMB Temperature Power Spectra from the South Pole Telescope and the Planck Satellite. <i>Astrophysical Journal</i> , 2017, 850, 101.	4.5	53
62	A DIRECT MEASUREMENT OF THE LINEAR BIAS OF MID-INFRARED-SELECTED QUASARS AT $z \sim 1$ USING COSMIC MICROWAVE BACKGROUND LENSING. <i>Astrophysical Journal Letters</i> , 2013, 776, L41.	8.3	52
63	An Improved Measurement of the Secondary Cosmic Microwave Background Anisotropies from the SPT-SZ + SPTpol Surveys. <i>Astrophysical Journal</i> , 2021, 908, 199.	4.5	52
64	Constraints on Cosmological Parameters from the 500 deg^2 SPTPOL Lensing Power Spectrum. <i>Astrophysical Journal</i> , 2020, 888, 119.	4.5	52
65	Constraints on the CMB temperature evolution using multiband measurements of the Sunyaev-Zel'dovich effect with the South Pole Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 2610-2615.	4.4	51
66	A MEASUREMENT OF THE SECONDARY-CMB AND MILLIMETER-WAVE-FOREGROUND BISPECTRUM USING 800 deg^2 OF SOUTH POLE TELESCOPE DATA. <i>Astrophysical Journal</i> , 2014, 784, 143.	4.5	49
67	A 2500 deg^2 CMB Lensing Map from Combined South Pole Telescope and Planck Data. <i>Astrophysical Journal</i> , 2017, 849, 124.	4.5	49
68	CMB Polarization B-mode Delensing with SPTpol and Herschel. <i>Astrophysical Journal</i> , 2017, 846, 45.	4.5	48
69	MEASUREMENTS OF E-MODE POLARIZATION AND TEMPERATURE-E-MODE CORRELATION IN THE COSMIC MICROWAVE BACKGROUND FROM 100 SQUARE DEGREES OF SPTPOL DATA. <i>Astrophysical Journal</i> , 2015, 805, 36.	4.5	47
70	Calibrating CHIME: a new radio interferometer to probe dark energy. <i>Proceedings of SPIE</i> , 2014, , .	0.8	43
71	WEAK-LENSING MASS MEASUREMENTS OF FIVE GALAXY CLUSTERS IN THE SOUTH POLE TELESCOPE SURVEY USING MAGELLAN/MEGACAM. <i>Astrophysical Journal</i> , 2012, 758, 68.	4.5	42
72	SPT-CL J2040+4451: AN SZ-SELECTED GALAXY CLUSTER AT $z = 1.478$ WITH SIGNIFICANT ONGOING STAR FORMATION. <i>Astrophysical Journal</i> , 2014, 794, 12.	4.5	42

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73	A measurement of CMB cluster lensing with SPT and DES year 1 data. Monthly Notices of the Royal Astronomical Society, 2018, 476, 2674-2688.	4.4	41
74	Galaxy Clusters Selected via the Sunyaev-Zeldovich Effect in the SPTpol 100-square-degree Survey. Astronomical Journal, 2020, 159, 110.	4.7	41
75	The CHIME Pulsar Project: System Overview. Astrophysical Journal, Supplement Series, 2021, 255, 5.	7.7	40
76	Millimeter-wave Point Sources from the 2500 Square Degree SPT-SZ Survey: Catalog and Population Statistics. Astrophysical Journal, 2020, 900, 55.	4.5	40
77	CHIME/FRB Catalog 1 Results: Statistical Cross-correlations with Large-scale Structure. Astrophysical Journal, 2021, 922, 42.	4.5	40
78	Digital Frequency Domain Multiplexer for Millimeter-Wavelength Telescopes. IEEE Transactions on Nuclear Science, 2008, 55, 21-26.	2.0	37
79	Sub-second periodicity in a fast radio burst. Nature, 2022, 607, 256-259.	27.8	37
80	SPT-GMOS: A GEMINI/GMOS-SOUTH SPECTROSCOPIC SURVEY OF GALAXY CLUSTERS IN THE SPT-SZ SURVEY. Astrophysical Journal, Supplement Series, 2016, 227, 3.	7.7	36
81	Improved performance of TES bolometers using digital feedback. Proceedings of SPIE, 2012, , .	0.8	33
82	ICE: A Scalable, Low-Cost FPGA-Based Telescope Signal Processing and Networking System. Journal of Astronomical Instrumentation, 2016, 05, .	1.5	33
83	The bolometric focal plane array of the POLARBEAR CMB experiment. Proceedings of SPIE, 2012, , .	0.8	31
84	POLARBEAR-2: an instrument for CMB polarization measurements. Proceedings of SPIE, 2016, , .	0.8	31
85	SPTpol: an instrument for CMB polarization. , 2009, , .		30
86	The POLARBEAR CMB polarization experiment. Proceedings of SPIE, 2010, , .	0.8	29
87	HIGH-REDSHIFT COOL-CORE GALAXY CLUSTERS DETECTED VIA THE SUNYAEV-ZEL'DOVICH EFFECT IN THE SOUTH POLE TELESCOPE SURVEY. Astrophysical Journal, 2012, 761, 183.	4.5	29
88	Fabrication of large dual-polarized multichroic TES bolometer arrays for CMB measurements with the SPT-3G camera. Superconductor Science and Technology, 2015, 28, 094002.	3.5	29
89	The Design and Integrated Performance of SPT-3G. Astrophysical Journal, Supplement Series, 2022, 258, 42.	7.7	29
90	SOUTH POLE TELESCOPE DETECTIONS OF THE PREVIOUSLY UNCONFIRMED <i>PLANCK</i> EARLY SUNYAEV-ZEL'DOVICH CLUSTERS IN THE SOUTHERN HEMISPHERE. Astrophysical Journal Letters, 2011, 735, L36.	8.3	28

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91	Maps of the Southern Millimeter-wave Sky from Combined 2500 deg ² SPT-SZ and Planck Temperature Data. Astrophysical Journal, Supplement Series, 2018, 239, 10.	7.7	28
92	Mass Calibration of Optically Selected DES Clusters Using a Measurement of CMB-cluster Lensing with SPTpol Data. Astrophysical Journal, 2019, 872, 170.	4.5	28
93	SPT-3G: A Multichroic Receiver for the South Pole Telescope. Journal of Low Temperature Physics, 2018, 193, 1057-1065.	1.4	27
94	The EBEX Balloon-borne Experimentâ€™Gondola, Attitude Control, and Control Software. Astrophysical Journal, Supplement Series, 2018, 239, 9.	7.7	26
95	Constraints on Cosmological Parameters from the Angular Power Spectrum of a Combined 2500 deg ² SPT-SZ and Planck Gravitational Lensing Map. Astrophysical Journal, 2018, 860, 137.	4.5	25
96	The EBEX Balloon-borne Experimentâ€™Optics, Receiver, and Polarimetry. Astrophysical Journal, Supplement Series, 2018, 239, 7.	7.7	23
97	Incorporating next-to-leading order matrix elements for hadronic diboson production in showering event generators. Physical Review D, 2001, 64, .	4.7	22
98	Hydrogen Intensity and Real-Time Analysis Experiment: 256-element array status and overview. Journal of Astronomical Telescopes, Instruments, and Systems, 2022, 8, .	1.8	22
99	CMB/kSZ and Compton-y Maps from 2500 deg ² of SPT-SZ and Planck Survey Data. Astrophysical Journal, Supplement Series, 2022, 258, 36.	7.7	22
100	Thermal Design and Characterization of Transition-Edge Sensor (TES) Bolometers for Frequency-Domain Multiplexing. IEEE Transactions on Applied Superconductivity, 2009, 19, 496-500.	1.7	21
101	Optimal Cosmic Microwave Background Lensing Reconstruction and Parameter Estimation with SPTpol Data. Astrophysical Journal, 2021, 922, 259.	4.5	21
102	Fractional polarization of extragalactic sources in the 500â€°deg ² SPTpol survey. Monthly Notices of the Royal Astronomical Society, 2019, 490, 5712-5721.	4.4	20
103	Frequency domain multiplexing for bolometer arrays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 520, 548-550.	1.6	19
104	A cryogenic half-wave plate polarimeter using a superconducting magnetic bearing. Proceedings of SPIE, 2011, , .	0.8	19
105	A Biasing and Demodulation System for Kilopixel TES Bolometer Arrays. IEEE Transactions on Instrumentation and Measurement, 2012, 61, 251-260.	4.7	19
106	MILLIMETER TRANSIENT POINT SOURCES IN THE SPTpol 100 SQUARE DEGREE SURVEY. Astrophysical Journal, 2016, 830, 143.	4.5	19
107	Phase space veto method for next-to-leading order event generators in hadronic collisions. Physical Review D, 2002, 65, .	4.7	18
108	Analysis of Sunyaevâ€™Zel'dovich effect massâ€™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.	4.4	18

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109	A Comparison of Maps and Power Spectra Determined from South Pole Telescope and Planck Data. <i>Astrophysical Journal</i> , 2018, 853, 3.	4.5	18
110	Feedhorn-coupled TES polarimeter camera modules at 150 GHz for CMB polarization measurements with SPTpol. <i>Proceedings of SPIE</i> , 2012, , .	0.8	17
111	Performance and on-sky optical characterization of the SPTpol instrument. <i>Proceedings of SPIE</i> , 2012, , .	0.8	16
112	Holographic beam mapping of the CHIME pathfinder array. <i>Proceedings of SPIE</i> , 2016, , .	0.8	16
113	Optimization of Transition Edge Sensor Arrays for Cosmic Microwave Background Observations With the South Pole Telescope. <i>IEEE Transactions on Applied Superconductivity</i> , 2017, 27, 1-4.	1.7	16
114	Optical Characterization of the SPT-3G Camera. <i>Journal of Low Temperature Physics</i> , 2018, 193, 305-313.	1.4	16
115	Fabrication of Detector Arrays for the SPT-3G Receiver. <i>Journal of Low Temperature Physics</i> , 2018, 193, 703-711.	1.4	16
116	Cosmological lensing ratios with DES Y1, SPT, and Planck. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 487, 1363-1379.	4.4	16
117	Detection of Galactic and Extragalactic Millimeter-wavelength Transient Sources with SPT-3G. <i>Astrophysical Journal</i> , 2021, 916, 98.	4.5	16
118	The POLARBEAR-2 experiment. <i>Proceedings of SPIE</i> , 2012, , .	0.8	15
119	Integrated performance of a frequency domain multiplexing readout in the SPT-3G receiver. <i>Proceedings of SPIE</i> , 2016, , .	0.8	15
120	Shocks in the stacked Sunyaev-Zel'dovich profiles of clusters II: Measurements from SPT-SZ + Planck Compton-y map. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 514, 1645-1663.	4.4	15
121	ICE-Based Custom Full-Mesh Network for the CHIME High Bandwidth Radio Astronomy Correlator. <i>Journal of Astronomical Instrumentation</i> , 2016, 05, .	1.5	14
122	Design and characterization of 90 GHz feedhorn-coupled TES polarimeter pixels in the SPTPol camera. <i>Proceedings of SPIE</i> , 2012, , .	0.8	13
123	Adaptation of frequency-domain readout for Transition Edge Sensor bolometers for the POLARBEAR-2 Cosmic Microwave Background experiment. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 732, 299-302.	1.6	13
124	Tuning SPT-3G Transition-Edge-Sensor Electrical Properties with a Four-Layer Ti/Au Thin-Film Stack. <i>Journal of Low Temperature Physics</i> , 2018, 193, 695-702.	1.4	13
125	Design and Assembly of SPT-3G Cold Readout Hardware. <i>Journal of Low Temperature Physics</i> , 2018, 193, 547-555.	1.4	13
126	The EBEX Balloon-borne Experiment's Detectors and Readout. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 8.	7.7	13

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127	EBEX: the E and B Experiment. Proceedings of SPIE, 2008, , .	0.8	12
128	CHIME FRB: An application of FFT beamforming for a radio telescope. , 2017, , .		12
129	Detection of CMB-Cluster Lensing using Polarization Data from SPTpol. Physical Review Letters, 2019, 123, 181301.	7.8	12
130	Localizing FRBs through VLBI with the Algonquin Radio Observatory 10 m Telescope. Astronomical Journal, 2022, 163, 65.	4.7	12
131	On-Sky Performance of the SPT-3G Frequency-Domain Multiplexed Readout. Journal of Low Temperature Physics, 2020, 199, 182-191.	1.4	11
132	South Pole Telescope software systems: control, monitoring, and data acquisition. Proceedings of SPIE, 2012, , .	0.8	10
133	A Study of Al ²⁺ /Mn Transition Edge Sensor Engineering for Stability. Journal of Low Temperature Physics, 2014, 176, 383-391.	1.4	10
134	MAPS OF THE MAGELLANIC CLOUDS FROM COMBINED SOUTH POLE TELESCOPE AND PLANCK DATA. Astrophysical Journal, Supplement Series, 2016, 227, 23.	7.7	10
135	SPT-SLIM: A Line Intensity Mapping Pathfinder for the South Pole Telescope. Journal of Low Temperature Physics, 2022, 209, 758-765.	1.4	10
136	The performance of the bolometer array and readout system during the 2012/2013 flight of the E and B experiment (EBEX). Proceedings of SPIE, 2014, , .	0.8	9
137	Large arrays of dual-polarized multichroic TES detectors for CMB measurements with the SPT-3G receiver. , 2016, , .		9
138	Demonstration of cardiac rotor and source mapping techniques in embryonic chick monolayers. Chaos, 2017, 27, 093938.	2.5	9
139	Design and characterization of the SPT-3G receiver. , 2018, , .		9
140	POLARBEAR-2 optical and polarimeter designs. Proceedings of SPIE, 2012, , .	0.8	8
141	Low Loss Superconducting Microstrip Development at Argonne National Lab. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	8
142	Comparison of NIST SA13a and SA4b SQUID Array Amplifiers. Journal of Low Temperature Physics, 2018, 193, 600-610.	1.4	8
143	Measurements of the Cross-spectra of the Cosmic Infrared and Microwave Backgrounds from 95 to 1200 GHz. Astrophysical Journal, 2019, 881, 96.	4.5	8
144	Broadband anti-reflective coatings for cosmic microwave background experiments. , 2018, , .		8

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145	Software systems for operation, control, and monitoring of the EBEX instrument. Proceedings of SPIE, 2010, , .	0.8	7
146	A GPU-based correlator X-engine implemented on the CHIME Pathfinder. , 2015, , .		7
147	MEASUREMENT OF GALAXY CLUSTER INTEGRATED COMPTONIZATION AND MASS SCALING RELATIONS WITH THE SOUTH POLE TELESCOPE. Astrophysical Journal, 2015, 799, 137.	4.5	7
148	Performance of Alâ€Mn Transition-Edge Sensor Bolometers in SPT-3G. Journal of Low Temperature Physics, 2020, 199, 320-329.	1.4	7
149	Recent Advances in Frequency-Multiplexed TES Readout: Vastly Reduced Parasitics and an Increase in Multiplexing Factor with Sub-Kelvin SQUIDs. Journal of Low Temperature Physics, 2020, 199, 754-761.	1.4	7
150	Frequency-domain readout multiplexing of transition-edge sensor arrays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 559, 793-795.	1.6	6
151	Design and characterization of TES bolometers and SQUID readout electronics for a balloon-borne application. Proceedings of SPIE, 2008, , .	0.8	6
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