

Matt Dobbs

List of Publications by Year in descending order

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Version: 2024-02-01

171
papers

12,301
citations

25034

57
h-index

26613

107
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178
all docs

178
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178
times ranked

7165
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogen Intensity and Real-Time Analysis Experiment: 256-element array status and overview. <i>Journal of Astronomical Telescopes, Instruments, and Systems</i> , 2022, 8, .	1.8	22
2	Localizing FRBs through VLBI with the Algonquin Radio Observatory 10 m Telescope. <i>Astronomical Journal</i> , 2022, 163, 65.	4.7	12
3	CMB/ kSZ and Compton- γ Maps from 2500 deg^2 of SPT-SZ and Planck Survey Data. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 36.	7.7	22
4	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , 2022, 926, 54.	4.5	79
5	The Design and Integrated Performance of SPT-3G. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 42.	7.7	29
6	SPT-SLIM: A Line Intensity Mapping Pathfinder for the South Pole Telescope. <i>Journal of Low Temperature Physics</i> , 2022, 209, 758-765.	1.4	10
7	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.	4.4	15
8	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.	4.5	5
9	Using the Sun to Measure the Primary Beam Response of the Canadian Hydrogen Intensity Mapping Experiment. <i>Astrophysical Journal</i> , 2022, 932, 100.	4.5	6
10	Sub-second periodicity in a fast radio burst. <i>Nature</i> , 2022, 607, 256-259.	27.8	37
11	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
12	The CHIME Pulsar Project: System Overview. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 5.	7.7	40
13	Detection of Galactic and Extragalactic Millimeter-wavelength Transient Sources with SPT-3G. <i>Astrophysical Journal</i> , 2021, 916, 98.	4.5	16
14	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.	1.7	0
15	Method for rapid performance validation of large TES bolometer array for POLARBEAR-2A using a coherent millimeter-wave source. <i>AIP Conference Proceedings</i> , 2021, , .	0.4	1
16	CHIME/FRB Catalog 1 Results: Statistical Cross-correlations with Large-scale Structure. <i>Astrophysical Journal</i> , 2021, 922, 42.	4.5	40
17	Optimal Cosmic Microwave Background Lensing Reconstruction and Parameter Estimation with SPTpol Data. <i>Astrophysical Journal</i> , 2021, 922, 259.	4.5	21
18	The First CHIME/FRB Fast Radio Burst Catalog. <i>Astrophysical Journal, Supplement Series</i> , 2021, 257, 59.	7.7	199

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19	On-Sky Performance of the SPT-3G Frequency-Domain Multiplexed Readout. <i>Journal of Low Temperature Physics</i> , 2020, 199, 182-191.	1.4	11
20	Performance of Al ¹⁰⁰ Mn Transition-Edge Sensor Bolometers in SPT-3G. <i>Journal of Low Temperature Physics</i> , 2020, 199, 320-329.	1.4	7
21	Galaxy Clusters Selected via the Sunyaev-Zeldovich Effect in the SPTpol 100-square-degree Survey. <i>Astronomical Journal</i> , 2020, 159, 110.	4.7	41
22	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.	1.4	7
23	Performance of a Low-Parasitic Frequency-Domain Multiplexing Readout. <i>Journal of Low Temperature Physics</i> , 2020, 199, 192-199.	1.4	1
24	Constraints on Cosmological Parameters from the 500 deg ² SPTPOL Lensing Power Spectrum. <i>Astrophysical Journal</i> , 2020, 888, 119.	4.5	52
25	Millimeter-wave Point Sources from the 2500 Square Degree SPT-SZ Survey: Catalog and Population Statistics. <i>Astrophysical Journal</i> , 2020, 900, 55.	4.5	40
26	The SPTpol Extended Cluster Survey. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 25.	7.7	101
27	Double-wave reentry in excitable media. <i>Chaos</i> , 2019, 29, 073103.	2.5	4
28	Measurements of the Cross-spectra of the Cosmic Infrared and Microwave Backgrounds from 95 to 1200 GHz. <i>Astrophysical Journal</i> , 2019, 881, 96.	4.5	8
29	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.	4.4	20
30	Detection of CMB-Cluster Lensing using Polarization Data from SPTpol. <i>Physical Review Letters</i> , 2019, 123, 181301.	7.8	12
31	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
32	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
33	Intensity-coupled Polarization in Instruments with a Continuously Rotating Half-wave Plate. <i>Astrophysical Journal</i> , 2019, 876, 54.	4.5	2
34	Mass Calibration of Optically Selected DES Clusters Using a Measurement of CMB-cluster Lensing with SPTpol Data. <i>Astrophysical Journal</i> , 2019, 872, 170.	4.5	28
35	The Simons Observatory: science goals and forecasts. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 056-056.	5.4	741
36	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.	4.5	71

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37	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.	1.4	13
38	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
39	A measurement of CMB cluster lensing with SPT and DES year 1 data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 476, 2674-2688.	4.4	41
40	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
41	Quantization Bias for Digital Correlators. <i>Journal of Astronomical Instrumentation</i> , 2018, 07, .	1.5	3
42	Design and Assembly of SPT-3G Cold Readout Hardware. <i>Journal of Low Temperature Physics</i> , 2018, 193, 547-555.	1.4	13
43	Optical Characterization of the SPT-3G Camera. <i>Journal of Low Temperature Physics</i> , 2018, 193, 305-313.	1.4	16
44	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.	7.7	28
45	The EBEX Balloon-borne Experiment's Optics, Receiver, and Polarimetry. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 7.	7.7	23
46	The EBEX Balloon-borne Experiment's Detectors and Readout. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 8.	7.7	13
47	The EBEX Balloon-borne Experiment's Gondola, Attitude Control, and Control Software. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 9.	7.7	26
48	Design and Bolometer Characterization of the SPT-3G First-Year Focal Plane. <i>Journal of Low Temperature Physics</i> , 2018, 193, 1085-1093.	1.4	6
49	Comparison of NIST SA13a and SA4b SQUID Array Amplifiers. <i>Journal of Low Temperature Physics</i> , 2018, 193, 600-610.	1.4	8
50	SPT-3G: A Multichroic Receiver for the South Pole Telescope. <i>Journal of Low Temperature Physics</i> , 2018, 193, 1057-1065.	1.4	27
51	Thermal Links and Microstrip Transmission Lines in SPT-3G Bolometers. <i>Journal of Low Temperature Physics</i> , 2018, 193, 712-719.	1.4	5
52	Fabrication of Detector Arrays for the SPT-3G Receiver. <i>Journal of Low Temperature Physics</i> , 2018, 193, 703-711.	1.4	16
53	Constraints on Cosmological Parameters from the Angular Power Spectrum of a Combined 2500 deg ² SPT-SZ and Planck Gravitational Lensing Map. <i>Astrophysical Journal</i> , 2018, 860, 137.	4.5	25
54	Current design of the electrical architecture for the payload module of LiteBIRD. , 2018, , .		1

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55	Design and characterization of the SPT-3G receiver. , 2018, , .		9
56	Broadband anti-reflective coatings for cosmic microwave background experiments. , 2018, , .		8
57	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.	1.7	16
58	Demonstration of cardiac rotor and source mapping techniques in embryonic chick monolayers. Chaos, 2017, 27, 093938.	2.5	9
59	CMB Polarization B-mode Delensing with SPTpol and Herschel. Astrophysical Journal, 2017, 846, 45.	4.5	48
60	A 2500 deg ² CMB Lensing Map from Combined South Pole Telescope and Planck Data. Astrophysical Journal, 2017, 849, 124.	4.5	49
61	A Comparison of Cosmological Parameters Determined from CMB Temperature Power Spectra from the South Pole Telescope and the Planck Satellite. Astrophysical Journal, 2017, 850, 101.	4.5	53
62	CHIME FRB: An application of FFT beamforming for a radio telescope. , 2017, , .		12
63	Temperature calibration of the E and B Experiment. , 2017, , .		2
64	MILLIMETER TRANSIENT POINT SOURCES IN THE SPTpol 100 SQUARE DEGREE SURVEY. Astrophysical Journal, 2016, 830, 143.	4.5	19
65	COSMOLOGICAL CONSTRAINTS FROM GALAXY CLUSTERS IN THE 2500 SQUARE-DEGREE SPT-SZ SURVEY. Astrophysical Journal, 2016, 832, 95.	4.5	179
66	MAPS OF THE MAGELLANIC CLOUDS FROM COMBINED SOUTH POLE TELESCOPE AND PLANCK DATA. Astrophysical Journal, Supplement Series, 2016, 227, 23.	7.7	10
67	ICE: A Scalable, Low-Cost FPGA-Based Telescope Signal Processing and Networking System. Journal of Astronomical Instrumentation, 2016, 05, .	1.5	33
68	Large arrays of dual-polarized multichroic TES detectors for CMB measurements with the SPT-3G receiver. , 2016, , .		9
69	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
70	Integrated performance of a frequency domain multiplexing readout in the SPT-3G receiver. Proceedings of SPIE, 2016, , .	0.8	15
71	Holographic beam mapping of the CHIME pathfinder array. Proceedings of SPIE, 2016, , .	0.8	16
72	ICE-Based Custom Full-Mesh Network for the CHIME High Bandwidth Radio Astronomy Correlator. Journal of Astronomical Instrumentation, 2016, 05, .	1.5	14

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73	POLARBEAR-2: an instrument for CMB polarization measurements. Proceedings of SPIE, 2016, , .	0.8	31
74	POLARBEAR constraints on cosmic birefringence and primordial magnetic fields. Physical Review D, 2015, 92, .	4.7	78
75	MEASUREMENTS OF E-MODE POLARIZATION AND TEMPERATURE-E-MODE CORRELATION IN THE COSMIC MICROWAVE BACKGROUND FROM 100 SQUARE DEGREES OF SPTPOL DATA. Astrophysical Journal, 2015, 805, 36.	4.5	47
76	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
77	A GPU-based correlator X-engine implemented on the CHIME Pathfinder. , 2015, , .		7
78	A MEASUREMENT OF SECONDARY COSMIC MICROWAVE BACKGROUND ANISOTROPIES FROM THE 2500 SQUARE-DEGREE SPT-SZ SURVEY. Astrophysical Journal, 2015, 799, 177.	4.5	183
79	MEASUREMENT OF GALAXY CLUSTER INTEGRATED COMPTONIZATION AND MASS SCALING RELATIONS WITH THE SOUTH POLE TELESCOPE. Astrophysical Journal, 2015, 799, 137.	4.5	7
80	MASS CALIBRATION AND COSMOLOGICAL ANALYSIS OF THE SPT-SZ GALAXY CLUSTER SAMPLE USING VELOCITY DISPERSION σ_v AND X-RAY Y_X MEASUREMENTS. Astrophysical Journal, 2015, 799, 214.	4.5	120
81	Low Loss Superconducting Microstrip Development at Argonne National Lab. IEEE Transactions on Applied Superconductivity, 2015, 25, 1-5.	1.7	8
82	GALAXY CLUSTERS DISCOVERED VIA THE SUNYAEV-ZEL'DOVICH EFFECT IN THE 2500-SQUARE-DEGREE SPT-SZ SURVEY. Astrophysical Journal, Supplement Series, 2015, 216, 27.	7.7	464
83	MEASUREMENTS OF SUB-DEGREE ℓ_B -MODE POLARIZATION IN THE COSMIC MICROWAVE BACKGROUND FROM 100 SQUARE DEGREES OF SPTPOL DATA. Astrophysical Journal, 2015, 807, 151.	4.5	117
84	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
85	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
86	A MEASUREMENT OF GRAVITATIONAL LENSING OF THE COSMIC MICROWAVE BACKGROUND BY GALAXY CLUSTERS USING DATA FROM THE SOUTH POLE TELESCOPE. Astrophysical Journal, 2015, 806, 247.	4.5	66
87	POLARBEAR CMB Polarization Experiment. , 2014, , .		1
88	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
89	SPT-3G: a next-generation cosmic microwave background polarization experiment on the South Pole telescope. Proceedings of SPIE, 2014, , .	0.8	249
90	Canadian Hydrogen Intensity Mapping Experiment (CHIME) pathfinder. Proceedings of SPIE, 2014, , .	0.8	145

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91	Calibrating CHIME: a new radio interferometer to probe dark energy. Proceedings of SPIE, 2014, , .	0.8	43
92	SPT-CL J2040â€“4451: AN SZ-SELECTED GALAXY CLUSTER AT $z = 1.478$ WITH SIGNIFICANT ONGOING STAR FORMATION. Astrophysical Journal, 2014, 794, 12.	4.5	42
93	OPTICAL SPECTROSCOPY AND VELOCITY DISPERSIONS OF GALAXY CLUSTERS FROM THE SPT-SZ SURVEY. Astrophysical Journal, 2014, 792, 45.	4.5	103
94	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
95	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.	4.5	49
96	A Study of Alâ€“Mn Transition Edge Sensor Engineering for Stability. Journal of Low Temperature Physics, 2014, 176, 383-391.	1.4	10
97	CONSTRAINTS ON COSMOLOGY FROM THE COSMIC MICROWAVE BACKGROUND POWER SPECTRUM OF THE 2500 deg^2 SPT-SZ SURVEY. Astrophysical Journal, 2014, 782, 74.	4.5	189
98	Constraints on the CMB temperature evolution using multiband measurements of the Sunyaevâ€“Zel'dovich effect with the South Pole Telescope. Monthly Notices of the Royal Astronomical Society, 2014, 440, 2610-2615.	4.4	51
99	Adaptation of frequency-domain readout for Transition Edge Sensor bolometers for the POLARBEAR-2 Cosmic Microwave Background experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 732, 299-302.	1.6	13
100	Detection of B -Mode Polarization in the Cosmic Microwave Background with Data from the South Pole Telescope. Physical Review Letters, 2013, 111, 141301.	7.8	280
101	A COSMIC MICROWAVE BACKGROUND LENSING MASS MAP AND ITS CORRELATION WITH THE COSMIC INFRARED BACKGROUND. Astrophysical Journal Letters, 2013, 771, L16.	8.3	76
102	Dusty starburst galaxies in the early Universe as revealed by gravitational lensing. Nature, 2013, 495, 344-347.	27.8	255
103	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. Astrophysical Journal, 2013, 774, 23.	4.5	144
104	EXTRAGALACTIC MILLIMETER-WAVE POINT-SOURCE CATALOG, NUMBER COUNTS AND STATISTICS FROM 771 deg^2 OF THE SPT-SZ SURVEY. Astrophysical Journal, 2013, 779, 61.	4.5	115
105	ALMA REDSHIFTS OF MILLIMETER-SELECTED GALAXIES FROM THE SPT SURVEY: THE REDSHIFT DISTRIBUTION OF DUSTY STAR-FORMING GALAXIES. Astrophysical Journal, 2013, 767, 88.	4.5	232
106	A DIRECT MEASUREMENT OF THE LINEAR BIAS OF MID-INFRARED-SELECTED QUASARS AT $z \approx 1$ USING COSMIC MICROWAVE BACKGROUND LENSING. Astrophysical Journal Letters, 2013, 776, L41.	8.3	52
107	ALMA OBSERVATIONS OF SPT-DISCOVERED, STRONGLY LENSED, DUSTY, STAR-FORMING GALAXIES. Astrophysical Journal, 2013, 767, 132.	4.5	109
108	A MEASUREMENT OF THE COSMIC MICROWAVE BACKGROUND DAMPING TAIL FROM THE 2500-SQUARE-DEGREE SPT-SZ SURVEY. Astrophysical Journal, 2013, 779, 86.	4.5	240

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109	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
110	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
111	COSMOLOGICAL CONSTRAINTS FROM SUNYAEV-ZEL'DOVICH-SELECTED CLUSTERS WITH X-RAY OBSERVATIONS IN THE FIRST 178 ² OF THE SOUTH POLE TELESCOPE SURVEY. <i>Astrophysical Journal</i> , 2013, 763, 147.	4.5	206
112	The POLARBEAR-2 experiment. <i>Proceedings of SPIE</i> , 2012, , .	0.8	15
113	POLARBEAR-2 optical and polarimeter designs. <i>Proceedings of SPIE</i> , 2012, , .	0.8	8
114	An automatic control interface for network-accessible embedded instruments. <i>ACM SIGBED Review</i> , 2012, 9, 23-27.	1.8	3
115	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.	1.3	110
116	The bolometric focal plane array of the POLARBEAR CMB experiment. <i>Proceedings of SPIE</i> , 2012, , .	0.8	31
117	Feedhorn-coupled TES polarimeter camera modules at 150 GHz for CMB polarization measurements with SPTpol. <i>Proceedings of SPIE</i> , 2012, , .	0.8	17
118	Performance and on-sky optical characterization of the SPTpol instrument. <i>Proceedings of SPIE</i> , 2012, , .	0.8	16
119	Improved performance of TES bolometers using digital feedback. <i>Proceedings of SPIE</i> , 2012, , .	0.8	33
120	Design and characterization of 90 GHz feedhorn-coupled TES polarimeter pixels in the SPTPol camera. <i>Proceedings of SPIE</i> , 2012, , .	0.8	13
121	South Pole Telescope software systems: control, monitoring, and data acquisition. <i>Proceedings of SPIE</i> , 2012, , .	0.8	10
122	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
123	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
124	HIGH-REDSHIFT COOL-CORE GALAXY CLUSTERS DETECTED VIA THE SUNYAEV-ZEL'DOVICH EFFECT IN THE SOUTH POLE TELESCOPE SURVEY. <i>Astrophysical Journal</i> , 2012, 761, 183.	4.5	29
125	A MEASUREMENT OF THE CORRELATION OF GALAXY SURVEYS WITH CMB LENSING CONVERGENCE MAPS FROM THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal Letters</i> , 2012, 753, L9.	8.3	76
126	SUBMILLIMETER OBSERVATIONS OF MILLIMETER BRIGHT GALAXIES DISCOVERED BY THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal</i> , 2012, 756, 101.	4.5	67

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127	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
128	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
129	REDSHIFTS, SAMPLE PURITY, AND BCG POSITIONS FOR THE GALAXY CLUSTER CATALOG FROM THE FIRST 720 SQUARE DEGREES OF THE SOUTH POLE TELESCOPE SURVEY. <i>Astrophysical Journal</i> , 2012, 761, 22.	4.5	89
130	SPTpol: an instrument for CMB polarization measurements with the South Pole Telescope. <i>Proceedings of SPIE</i> , 2012, , .	0.8	98
131	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
132	A MEASUREMENT OF GRAVITATIONAL LENSING OF THE MICROWAVE BACKGROUND USING SOUTH POLE TELESCOPE DATA. <i>Astrophysical Journal</i> , 2012, 756, 142.	4.5	212
133	A Biasing and Demodulation System for Kilopixel TES Bolometer Arrays. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2012, 61, 251-260.	4.7	19
134	THE EBEX CRYOSTAT AND SUPPORTING ELECTRONICS. , 2012, , .		5
135	The 10 Meter South Pole Telescope. <i>Publications of the Astronomical Society of the Pacific</i> , 2011, 123, 568-581.	3.1	496
136	THE FIRST PUBLIC RELEASE OF SOUTH POLE TELESCOPE DATA: MAPS OF A 95 deg ² FIELD FROM 2008 OBSERVATIONS. <i>Astrophysical Journal</i> , 2011, 743, 90.	4.5	81
137	A cryogenic half-wave plate polarimeter using a superconducting magnetic bearing. <i>Proceedings of SPIE</i> , 2011, , .	0.8	19
138	IMPROVED CONSTRAINTS ON COSMIC MICROWAVE BACKGROUND SECONDARY ANISOTROPIES FROM THE COMPLETE 2008 SOUTH POLE TELESCOPE DATA. <i>Astrophysical Journal</i> , 2011, 736, 61.	4.5	86
139	SOUTH POLE TELESCOPE DETECTIONS OF THE PREVIOUSLY UNCONFIRMED <i>PLANCK</i> EARLY SUNYAEV-ZEL'DOVICH CLUSTERS IN THE SOUTHERN HEMISPHERE. <i>Astrophysical Journal Letters</i> , 2011, 735, L36.	8.3	28
140	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
141	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.	4.5	104
142	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
143	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
144	Software systems for operation, control, and monitoring of the EBEX instrument. <i>Proceedings of SPIE</i> , 2010, , .	0.8	7

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145	First implementation of TES bolometer arrays with SQUID-based multiplexed readout on a balloon-borne platform. Proceedings of SPIE, 2010, , .	0.8	5
146	EBEX: a balloon-borne CMB polarization experiment. Proceedings of SPIE, 2010, , .	0.8	68
147	ANGULAR POWER SPECTRA OF THE MILLIMETER-WAVELENGTH BACKGROUND LIGHT FROM DUSTY STAR-FORMING GALAXIES WITH THE SOUTH POLE TELESCOPE. Astrophysical Journal, 2010, 718, 632-646.	4.5	122
148	SUNYAEVâ€™ZELâ€™DOVICH CLUSTER PROFILES MEASURED WITH THE SOUTH POLE TELESCOPE. Astrophysical Journal, 2010, 716, 1118-1135.	4.5	117
149	EXTRAGALACTIC MILLIMETER-WAVE SOURCES IN SOUTH POLE TELESCOPE SURVEY DATA: SOURCE COUNTS, CATALOG, AND STATISTICS FOR AN 87 SQUARE-DEGREE FIELD. Astrophysical Journal, 2010, 719, 763-783.	4.5	252
150	MEASUREMENTS OF SECONDARY COSMIC MICROWAVE BACKGROUND ANISOTROPIES WITH THE SOUTH POLE TELESCOPE. Astrophysical Journal, 2010, 719, 1045-1066.	4.5	145
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