

Gilbert Holder

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	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
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.	4.5	240
7	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
8	GALAXY CLUSTERS DISCOVERED WITH A SUNYAEV-ZEL'DOVICH EFFECT SURVEY. <i>Astrophysical Journal</i> , 2009, 701, 32-41.	4.5	228
9	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
10	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
11	A MEASUREMENT OF GRAVITATIONAL LENSING OF THE MICROWAVE BACKGROUND USING SOUTH POLE TELESCOPE DATA. <i>Astrophysical Journal</i> , 2012, 756, 142.	4.5	212
12	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
13	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
14	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
15	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
16	COSMOLOGICAL CONSTRAINTS FROM GALAXY CLUSTERS IN THE 2500 SQUARE-DEGREE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2016, 832, 95.	4.5	179
17	Enhanced Global Signal of Neutral Hydrogen Due to Excess Radiation at Cosmic Dawn. <i>Astrophysical Journal Letters</i> , 2018, 858, L17.	8.3	176
18	MEASUREMENTS OF SECONDARY COSMIC MICROWAVE BACKGROUND ANISOTROPIES WITH THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal</i> , 2010, 719, 1045-1066.	4.5	145

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19	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
20	THE GROWTH OF COOL CORES AND EVOLUTION OF COOLING PROPERTIES IN A SAMPLE OF 83 GALAXY CLUSTERS AT 0.3 z <math>< i>z</i></math> 1.2 SELECTED FROM THE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2013, 774, 23.	4.5	144
21	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
22	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
23	MASS CALIBRATION AND COSMOLOGICAL ANALYSIS OF THE SPT-SZ GALAXY CLUSTER SAMPLE USING VELOCITY DISPERSION σ_v AND X-RAY Y_X MEASUREMENTS. <i>Astrophysical Journal</i> , 2015, 799, 214.	4.5	120
24	SUNYAEV-ZEL'DOVICH CLUSTER PROFILES MEASURED WITH THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal</i> , 2010, 716, 1118-1135.	4.5	117
25	MEASUREMENTS OF SUB-DEGREE ℓ_B -MODE POLARIZATION IN THE COSMIC MICROWAVE BACKGROUND FROM 100 SQUARE DEGREES OF SPTPOL DATA. <i>Astrophysical Journal</i> , 2015, 807, 151.	4.5	117
26	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
27	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
28	OPTICAL SPECTROSCOPY AND VELOCITY DISPERSIONS OF GALAXY CLUSTERS FROM THE SPT-SZ SURVEY. <i>Astrophysical Journal</i> , 2014, 792, 45.	4.5	103
29	The SPTpol Extended Cluster Survey. <i>Astrophysical Journal</i> , Supplement Series, 2020, 247, 25.	7.7	101
30	A MEASUREMENT OF THE COSMIC MICROWAVE BACKGROUND GRAVITATIONAL LENSING POTENTIAL FROM 100 SQUARE DEGREES OF SPTPOL DATA. <i>Astrophysical Journal</i> , 2015, 810, 50.	4.5	99
31	SPTpol: an instrument for CMB polarization measurements with the South Pole Telescope. <i>Proceedings of SPIE</i> , 2012, . .	0.8	98
32	CMB LENSING POWER SPECTRUM BIASES FROM GALAXIES AND CLUSTERS USING HIGH-ANGULAR RESOLUTION TEMPERATURE MAPS. <i>Astrophysical Journal</i> , 2014, 786, 13.	4.5	98
33	SPT-CL J0546-5345: A MASSIVE $z \approx 1$ GALAXY CLUSTER SELECTED VIA THE SUNYAEV-ZEL'DOVICH EFFECT WITH THE SOUTH POLE TELESCOPE. <i>Astrophysical Journal</i> , 2010, 721, 90-97.	4.5	94
34	THE REDSHIFT EVOLUTION OF THE MEAN TEMPERATURE, PRESSURE, AND ENTROPY PROFILES IN 80 SPT-SELECTED GALAXY CLUSTERS. <i>Astrophysical Journal</i> , 2014, 794, 67.	4.5	90
35	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
36	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

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37	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
38	A COSMIC MICROWAVE BACKGROUND LENSING MASS MAP AND ITS CORRELATION WITH THE COSMIC INFRARED BACKGROUND. <i>Astrophysical Journal Letters</i> , 2013, 771, L16.	8.3	76
39	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
40	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
41	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
42	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
43	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
44	Constraints on Cosmological Parameters from the 500 deg ² SPTPOL Lensing Power Spectrum. <i>Astrophysical Journal</i> , 2020, 888, 119.	4.5	52
45	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
46	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
47	CMB Polarization B-mode Delensing with SPTpol and Herschel. <i>Astrophysical Journal</i> , 2017, 846, 45.	4.5	48
48	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
49	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
50	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
51	Galaxy Clusters Selected via the Sunyaev-Zel'dovich Effect in the SPTpol 100-square-degree Survey. <i>Astronomical Journal</i> , 2020, 159, 110.	4.7	41
52	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
53	SPT-GMOS: A GEMINI/GMOS-SOUTH SPECTROSCOPIC SURVEY OF GALAXY CLUSTERS IN THE SPT-SZ SURVEY. <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 3.	7.7	36
54	SIMULATIONS OF THE PAIRWISE KINEMATIC SUNYAEV-ZEL'DOVICH SIGNAL. <i>Astrophysical Journal</i> , 2016, 823, 98.	4.5	32

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55	The Design and Integrated Performance of SPT-3G. <i>Astrophysical Journal, Supplement Series</i> , 2022, 258, 42.	7.7	29
56	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
57	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
58	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.	7.7	22
59	Optimal Cosmic Microwave Background Lensing Reconstruction and Parameter Estimation with SPTpol Data. <i>Astrophysical Journal</i> , 2021, 922, 259.	4.5	21
60	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
61	MILLIMETER TRANSIENT POINT SOURCES IN THE SPTpol 100 SQUARE DEGREE SURVEY. <i>Astrophysical Journal</i> , 2016, 830, 143.	4.5	19
62	COSMOLOGISTS IN SEARCH OF PLANET NINE: THE CASE FOR CMB EXPERIMENTS. <i>Astrophysical Journal Letters</i> , 2016, 822, L2.	8.3	19
63	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.	4.4	18
64	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
65	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
66	Detection of Galactic and Extragalactic Millimeter-wavelength Transient Sources with SPT-3G. <i>Astrophysical Journal</i> , 2021, 916, 98.	4.5	16
67	Constraining Cluster Virialization Mechanism and Cosmology Using Thermal-SZ-selected Clusters from Future CMB Surveys. <i>Astrophysical Journal</i> , 2022, 926, 172.	4.5	16
68	Probing star formation in the dense environments of $z \sim 1$ lensing haloes aligned with dusty star-forming galaxies detected with the South Pole Telescope. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 1629-1646.	4.4	15
69	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
70	COSMIC VARIANCE IN THE NANOHERTZ GRAVITATIONAL WAVE BACKGROUND. <i>Astrophysical Journal</i> , 2016, 819, 163.	4.5	12
71	HARMONIC SPACE ANALYSIS OF PULSAR TIMING ARRAY REDSHIFT MAPS. <i>Astrophysical Journal</i> , 2017, 835, 21.	4.5	12
72	Detection of CMB-Cluster Lensing using Polarization Data from SPTpol. <i>Physical Review Letters</i> , 2019, 123, 181301.	7.8	12

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73	MAPS OF THE MAGELLANIC CLOUDS FROM COMBINED SOUTH POLE TELESCOPE AND PLANCK DATA. Astrophysical Journal, Supplement Series, 2016, 227, 23.	7.7	10
74	Searching for patchy reionization from cosmic microwave background with hybrid quadratic estimators. Physical Review D, 2019, 99, .	4.7	7
75	Polarization of the Cosmic Infrared Background Fluctuations. Astrophysical Journal, 2020, 897, 140.	4.5	5
76	Detecting electron density fluctuations from cosmic microwave background polarization using a bispectrum approach. Physical Review D, 2018, 97, .	4.7	4
77	LENSING NOISE IN MILLIMETER-WAVE GALAXY CLUSTER SURVEYS. Astrophysical Journal, 2013, 772, 121.	4.5	3
78	Measuring Reionization, Neutrino Mass, and Cosmic Inflation with BFORE. Journal of Low Temperature Physics, 2018, 193, 1033-1040.	1.4	3
79	SPT-SZ: a Sunyaev-ZePdovich survey for galaxy clusters. , 2009, , .		1