Bradley Johnson

List of Publications by Year
in descending order

61	1,286	394421	395702
papers	citations	h-index	g-index

63	63	63	1335
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. Astrophysical Journal, 2022, 926, 54.	4.5	79
2	The Simons Observatory: Galactic Science Goals and Forecasts. Astrophysical Journal, 2022, 929, 166.	4.5	10
3	The Simons Observatory: A large-diameter truss for a refracting telescope cooled to 1 K. Review of Scientific Instruments, 2022, 93, .	1.3	1
4	The Simons Observatory: gain, bandpass and polarization-angle calibration requirements for B-mode searches. Journal of Cosmology and Astroparticle Physics, 2021, 2021, 032.	5.4	14
5	The Simons Observatory Large Aperture Telescope Receiver. Astrophysical Journal, Supplement Series, 2021, 256, 23.	7.7	11
6	The Simons Observatory Microwave SQUID Multiplexing Detector Module Design. Astrophysical Journal, 2021, 922, 38.	4.5	17
7	Planar Self-similar Antennas for Broadband Millimeter-Wave Measurements. Journal of Low Temperature Physics, 2020, 199, 281-288.	1.4	1
8	The Simons Observatory Small Aperture Telescope overview. , 2020, , .		7
9	Assembly development for the Simons Observatory focal plane readout module. , 2020, , .		8
10	Intensity-coupled Polarization in Instruments with a Continuously Rotating Half-wave Plate. Astrophysical Journal, 2019, 876, 54.	4.5	2
11	Weak-lensing mass calibration of the Sunyaevâ€“Zelâ€™dovich effect using APEX-SZ galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2019, 488, 1728-1759.	4.4	18
12	Constraining the Anomalous Microwave Emission Mechanism in the S140 Star-forming Region with Spectroscopic Observations between 4 and 8 GHz at the Green Bank Telescope. Astrophysical Journal, 2018, 864, 97.	4.5	1
13	Airborne, Far-Field Calibrators for Cosmic Microwave Background Telescopes: POLOCALC. , 2018, , .		0
14	Design and performance of dual-polarization lumped-element kinetic inductance detectors for millimeter-wave polarimetry. Astronomy and Astrophysics, 2018, 610, A45.	5.1	20
15	The EBEX Balloon-borne Experimentâ€”Optics, Receiver, and Polarimetry. Astrophysical Journal, Supplement Series, 2018, 239, 7.	7.7	23
16	The EBEX Balloon-borne Experimentâ€”Detectors and Readout. Astrophysical Journal, Supplement Series, 2018, 239, 8.	7.7	13
17	The EBEX Balloon-borne Experimentâ€”Gondola, Attitude Control, and Control Software. Astrophysical Journal, Supplement Series, 2018, 239, 9.	7.7	26
18	Development of Multi-chroic MKIDs for Next-Generation CMB Polarization Studies. Journal of Low Temperature Physics, 2018, 193, 103-112.	1.4	8

#	Article	IF	Citations
19	Developments of Highly Multiplexed, Multi-chroic Pixels for Balloon-Borne Platforms. Journal of Low Temperature Physics, 2018, 193, 298-304.	1.4	0
20	PICO - the probe of inflation and cosmic origins. , 2018, , .		17
21	High quality factor manganese-doped aluminum lumped-element kinetic inductance detectors sensitive to frequencies below 100 GHz. Applied Physics Letters, 2017, 110, .	3.3	10
22	A large-diameter hollow-shaft cryogenic motor based on a superconducting magnetic bearing for millimeter-wave polarimetry. Review of Scientific Instruments, 2017, 88, 105102.	1.3	21
23	POLOCALC: A Novel Method to Measure the Absolute Polarization Orientation of the Cosmic Microwave Background. Journal of Astronomical Instrumentation, 2017, 06, .	1.5	25
24	Prospects for measuring cosmic microwave background spectral distortions in the presence of foregrounds. Monthly Notices of the Royal Astronomical Society, 2017, 471, 1126-1140.	4.4	55
25	Temperature calibration of the E and B Experiment. , 2017, , .		2
26	Development of dual-polarization LEKIDs for CMB observations. Proceedings of SPIE, 2016, , .	0.8	3
27	Magnetic field dependence of the internal quality factor and noise performance of lumped-element kinetic inductance detectors. Applied Physics Letters, 2016, 109, .	3.3	11
28	Photon noise from chaotic and coherent millimeter-wave sources measured with horn-coupled, aluminum lumped-element kinetic inductance detectors. Applied Physics Letters, 2016, 108, .	3.3	20
29	A Titanium Nitride Absorber for Controlling Optical Crosstalk in Horn-Coupled Aluminum LEKID Arrays for Millimeter Wavelengths. Journal of Low Temperature Physics, 2016, 184, 154-160.	1.4	3
30	Polarization sensitive Multi-Chroic MKIDs. , 2016, , .		6
31	Foreground-induced biases in CMB polarimeter self-calibration. Monthly Notices of the Royal Astronomical Society, 2016, 457, 1796-1803.	4.4	26
32	Galaxy cluster scaling relations measured with APEX-SZ. Monthly Notices of the Royal Astronomical Society, 2016, 460, 3432-3446.	4.4	10
33	WSPEC: A Waveguide Filter-Bank Focal Plane Array Spectrometer for Millimeter Wave Astronomy and Cosmology. Journal of Low Temperature Physics, 2016, 184, 114-122.	1.4	11
34	Precision tests of parity violation over cosmological distances. Monthly Notices of the Royal Astronomical Society, 2016, 455, 1981-1988.	4.4	31
35	A CubeSat for Calibrating Ground-Based and Sub-Orbital Millimeter-Wave Polarimeters (CalSat). Journal of Astronomical Instrumentation, 2015, 04, .	1.5	27
36	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

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37	A LEKID-based CMB instrument design for large-scale observations in Greenland. Proceedings of SPIE, 2014, , .	0.8	3
38	Horn-coupled, commercially-fabricated aluminum lumped-element kinetic inductance detectors for millimeter wavelengths. Review of Scientific Instruments, 2014, 85, 123117.	1.3	32
39	The Detector System for the Stratospheric Kinetic Inductance Polarimeter (Skip). Journal of Low Temperature Physics, 2014, 176, 741-748.	1.4	5
40	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
41	THE IMPACT OF THE SPECTRAL RESPONSE OF AN ACHROMATIC HALF-WAVE PLATE ON THE MEASUREMENT OF THE COSMIC MICROWAVE BACKGROUND POLARIZATION. Astrophysical Journal, 2012, 747, 97.	4.5	15
42	THE EBEX CRYOSTAT AND SUPPORTING ELECTRONICS. , 2012, , .		5
43	A cryogenic half-wave plate polarimeter using a superconducting magnetic bearing. Proceedings of SPIE, 2011, , .	0.8	19
44	Invited Article: Millimeter-wave bolometer array receiver for the Atacama pathfinder experiment Sunyaev-Zel'dovich (APEX-SZ) instrument. Review of Scientific Instruments, 2011, 82, 091301.	1.3	30
45	Software systems for operation, control, and monitoring of the EBEX instrument. Proceedings of SPIE, 2010, , .	0.8	7
46	First implementation of TES bolometer arrays with SQUID-based multiplexed readout on a balloon-borne platform. Proceedings of SPIE, 2010, , .	0.8	5
47	EBEX: a balloon-borne CMB polarization experiment. Proceedings of SPIE, 2010, , .	0.8	68
48	Fast and precise map-making for massively multi-detector CMB experiments. Monthly Notices of the Royal Astronomical Society, 2010, 407, 1387-1402.	4.4	22
49	CONSTRAINTS ON THE HIGH-â„“ POWER SPECTRUM OF MILLIMETER-WAVE ANISOTROPIES FROM APEX-SZ. Astrophysical Journal, 2009, 701, 1958-1964.	4.5	18
50	Map making in small field modulated CMB polarization experiments: approximating the maximum likelihood method. Monthly Notices of the Royal Astronomical Society, 2009, 393, 894-910.	4.4	17
51	Impact of modulation on CMBB-mode polarization experiments. Monthly Notices of the Royal Astronomical Society, 2009, 397, 634-656.	4.4	17
52	Performance of three- and five-stack achromatic half-wave plates at millimeter wavelengths. Applied Optics, 2009, 48, 3614.	2.1	20
53	Further Optimization of the APEX-SZ TES Bolometer Array. , 2009, , .		3
54	EBEX: the E and B Experiment. Proceedings of SPIE, 2008, , .	0.8	12

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55	MAXIPOL: Cosmic Microwave Background Polarimetry Using a Rotating Halfâ€Wave Plate. Astrophysical Journal, 2007, 665, 42-54.	4.5	70
56	MAXIPOL: Data Analysis and Results. Astrophysical Journal, 2007, 665, 55-66.	4.5	54
57	Systematic errors in cosmic microwave background polarization measurements. Monthly Notices of the Royal Astronomical Society, 2007, 376, 1767-1783.	4.4	80
58	MAXIMA: A balloon-borne cosmic microwave background anisotropy experiment. Review of Scientific Instruments, 2006, 77, 071101.	1.3	17
59	Development of a cryogenic induction motor for use with a superconducting magnetic bearing. Physica C: Superconductivity and Its Applications, 2005, 426-431, 746-751.	1.2	2
60	Millimeter-wave achromatic half-wave plate. Applied Optics, 2005, 44, 4666.	2.1	33
61	The EBEX experiment. , 2004, , .		76