

# Bradley Johnson

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

1,286  
citations

394421

19  
h-index

395702

33  
g-index

63  
all docs

63  
docs citations

63  
times ranked

1335  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Systematic errors in cosmic microwave background polarization measurements. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 376, 1767-1783.	4.4	80
3	CMB-S4: Forecasting Constraints on Primordial Gravitational Waves. <i>Astrophysical Journal</i> , 2022, 926, 54.	4.5	79
4	The EBEX experiment. , 2004, , .		76
5	MAXIPOL: Cosmic Microwave Background Polarimetry Using a Rotating Half-Wave Plate. <i>Astrophysical Journal</i> , 2007, 665, 42-54.	4.5	70
6	EBEX: a balloon-borne CMB polarization experiment. <i>Proceedings of SPIE</i> , 2010, , .	0.8	68
7	Prospects for measuring cosmic microwave background spectral distortions in the presence of foregrounds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 471, 1126-1140.	4.4	55
8	MAXIPOL: Data Analysis and Results. <i>Astrophysical Journal</i> , 2007, 665, 55-66.	4.5	54
9	Millimeter-wave achromatic half-wave plate. <i>Applied Optics</i> , 2005, 44, 4666.	2.1	33
10	Horn-coupled, commercially-fabricated aluminum lumped-element kinetic inductance detectors for millimeter wavelengths. <i>Review of Scientific Instruments</i> , 2014, 85, 123117.	1.3	32
11	Precision tests of parity violation over cosmological distances. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 1981-1988.	4.4	31
12	Invited Article: Millimeter-wave bolometer array receiver for the Atacama pathfinder experiment Sunyaev-Zel'dovich (APEX-SZ) instrument. <i>Review of Scientific Instruments</i> , 2011, 82, 091301.	1.3	30
13	A CubeSat for Calibrating Ground-Based and Sub-Orbital Millimeter-Wave Polarimeters (CalSat). <i>Journal of Astronomical Instrumentation</i> , 2015, 04, .	1.5	27
14	Foreground-induced biases in CMB polarimeter self-calibration. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 457, 1796-1803.	4.4	26
15	The EBEX Balloon-borne Experimentâ€™s Gondola, Attitude Control, and Control Software. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 9.	7.7	26
16	POLOCALC: A Novel Method to Measure the Absolute Polarization Orientation of the Cosmic Microwave Background. <i>Journal of Astronomical Instrumentation</i> , 2017, 06, .	1.5	25
17	The EBEX Balloon-borne Experimentâ€™s Optics, Receiver, and Polarimetry. <i>Astrophysical Journal, Supplement Series</i> , 2018, 239, 7.	7.7	23
18	Fast and precise map-making for massively multi-detector CMB experiments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 407, 1387-1402.	4.4	22

#	ARTICLE	IF	CITATIONS
19	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
20	Performance of three- and five-stack achromatic half-wave plates at millimeter wavelengths. Applied Optics, 2009, 48, 3614.	2.1	20
21	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
22	Design and performance of dual-polarization lumped-element kinetic inductance detectors for millimeter-wave polarimetry. Astronomy and Astrophysics, 2018, 610, A45.	5.1	20
23	A cryogenic half-wave plate polarimeter using a superconducting magnetic bearing. Proceedings of SPIE, 2011, , .	0.8	19
24	CONSTRAINTS ON THE HIGH- $\alpha_c$ POWER SPECTRUM OF MILLIMETER-WAVE ANISOTROPIES FROM APEX-SZ. Astrophysical Journal, 2009, 701, 1958-1964.	4.5	18
25	Weak-lensing mass calibration of the Sunyaev-Zeldovich effect using APEX-SZ galaxy clusters. Monthly Notices of the Royal Astronomical Society, 2019, 488, 1728-1759.	4.4	18
26	MAXIMA: A balloon-borne cosmic microwave background anisotropy experiment. Review of Scientific Instruments, 2006, 77, 071101.	1.3	17
27	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
28	Impact of modulation on CMB $B$ -mode polarization experiments. Monthly Notices of the Royal Astronomical Society, 2009, 397, 634-656.	4.4	17
29	PICO - the probe of inflation and cosmic origins. , 2018, , .		17
30	The Simons Observatory Microwave SQUID Multiplexing Detector Module Design. Astrophysical Journal, 2021, 922, 38.	4.5	17
31	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
32	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
33	The EBEX Balloon-borne Experiment's Detectors and Readout. Astrophysical Journal, Supplement Series, 2018, 239, 8.	7.7	13
34	EBEX: the E and B Experiment. Proceedings of SPIE, 2008, , .	0.8	12
35	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
36	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

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37	The Simons Observatory Large Aperture Telescope Receiver. <i>Astrophysical Journal, Supplement Series</i> , 2021, 256, 23.	7.7	11
38	Galaxy cluster scaling relations measured with APEX-SZ. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 460, 3432-3446.	4.4	10
39	High quality factor manganese-doped aluminum lumped-element kinetic inductance detectors sensitive to frequencies below 100 GHz. <i>Applied Physics Letters</i> , 2017, 110, .	3.3	10
40	The Simons Observatory: Galactic Science Goals and Forecasts. <i>Astrophysical Journal</i> , 2022, 929, 166.	4.5	10
41	The performance of the bolometer array and readout system during the 2012/2013 flight of the E and B experiment (EBEX). <i>Proceedings of SPIE</i> , 2014, , .	0.8	9
42	Development of Multi-choic MKIDs for Next-Generation CMB Polarization Studies. <i>Journal of Low Temperature Physics</i> , 2018, 193, 103-112.	1.4	8
43	Assembly development for the Simons Observatory focal plane readout module. , 2020, , .		8
44	Software systems for operation, control, and monitoring of the EBEX instrument. <i>Proceedings of SPIE</i> , 2010, , .	0.8	7
45	The Simons Observatory Small Aperture Telescope overview. , 2020, , .		7
46	Polarization sensitive Multi-Chroic MKIDs. , 2016, , .		6
47	First implementation of TES bolometer arrays with SQUID-based multiplexed readout on a balloon-borne platform. <i>Proceedings of SPIE</i> , 2010, , .	0.8	5
48	The Detector System for the Stratospheric Kinetic Inductance Polarimeter (Skip). <i>Journal of Low Temperature Physics</i> , 2014, 176, 741-748.	1.4	5
49	THE EBEX CRYOSTAT AND SUPPORTING ELECTRONICS. , 2012, , .		5
50	Further Optimization of the APEX-SZ TES Bolometer Array. , 2009, , .		3
51	A LEKID-based CMB instrument design for large-scale observations in Greenland. <i>Proceedings of SPIE</i> , 2014, , .	0.8	3
52	Development of dual-polarization LEKIDs for CMB observations. <i>Proceedings of SPIE</i> , 2016, , .	0.8	3
53	A Titanium Nitride Absorber for Controlling Optical Crosstalk in Horn-Coupled Aluminum LEKID Arrays for Millimeter Wavelengths. <i>Journal of Low Temperature Physics</i> , 2016, 184, 154-160.	1.4	3
54	Development of a cryogenic induction motor for use with a superconducting magnetic bearing. <i>Physica C: Superconductivity and Its Applications</i> , 2005, 426-431, 746-751.	1.2	2

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55	Intensity-coupled Polarization in Instruments with a Continuously Rotating Half-wave Plate. <i>Astrophysical Journal</i> , 2019, 876, 54.	4.5	2
56	Temperature calibration of the E and B Experiment. , 2017, , .		2
57	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. <i>Astrophysical Journal</i> , 2018, 864, 97.	4.5	1
58	Planar Self-similar Antennas for Broadband Millimeter-Wave Measurements. <i>Journal of Low Temperature Physics</i> , 2020, 199, 281-288.	1.4	1
59	The Simons Observatory: A large-diameter truss for a refracting telescope cooled to 1 K. <i>Review of Scientific Instruments</i> , 2022, 93, .	1.3	1
60	Airborne, Far-Field Calibrators for Cosmic Microwave Background Telescopes: POLOCALC. , 2018, , .		0
61	Developments of Highly Multiplexed, Multi-chroic Pixels for Balloon-Borne Platforms. <i>Journal of Low Temperature Physics</i> , 2018, 193, 298-304.	1.4	0