

# Rahul Datta

## List of Publications by Year in descending order

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Version: 2024-02-01

38  
papers

2,039  
citations

361413

20  
h-index

361022

35  
g-index

38  
all docs

38  
docs citations

38  
times ranked

1948  
citing authors

#	ARTICLE	IF	CITATIONS
1	Four-year Cosmology Large Angular Scale Surveyor (CLASS) Observations: On-sky Receiver Performance at 40, 90, 150, and 220 GHz Frequency Bands. <i>Astrophysical Journal</i> , 2022, 926, 33.	4.5	19
2	Anti-reflection coated vacuum window for the Primordial Inflation Polarization Explorer (PIPER) balloon-borne instrument. <i>Review of Scientific Instruments</i> , 2021, 92, 035111.	1.3	1
3	Venus Observations at 40 and 90 GHz with CLASS. <i>Planetary Science Journal</i> , 2021, 2, 71.	3.6	5
4	Confirming the Calibration of ALMA Using Planck Observations. <i>Astrophysical Journal, Supplement Series</i> , 2021, 256, 19.	7.7	3
5	Two Year Cosmology Large Angular Scale Surveyor (CLASS) Observations: Long Timescale Stability Achieved with a Front-end Variable-delay Polarization Modulator at 40 GHz. <i>Astrophysical Journal</i> , 2021, 922, 212.	4.5	8
6	Atacama Cosmology Telescope: Component-separated maps of CMB temperature and the thermal Sunyaev-Zel'dovich effect. <i>Physical Review D</i> , 2020, 102, .	4.7	56
7	The CLASS 150/220 GHz Polarimeter Array: Design, Assembly, and Characterization. <i>Journal of Low Temperature Physics</i> , 2020, 199, 289-297.	1.4	23
8	Atacama Cosmology Telescope: Dusty Star-forming Galaxies and Active Galactic Nuclei in the Equatorial Survey. <i>Astrophysical Journal</i> , 2020, 893, 104.	4.5	16
9	The Atacama Cosmology Telescope: a measurement of the Cosmic Microwave Background power spectra at 98 and 150 GHz. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 045-045.	5.4	148
10	The Atacama Cosmology Telescope: arcminute-resolution maps of 18 000 square degrees of the microwave sky from ACT 2008–2018 data combined with Planck. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 046-046.	5.4	50
11	The Atacama Cosmology Telescope: DR4 maps and cosmological parameters. <i>Journal of Cosmology and Astroparticle Physics</i> , 2020, 2020, 047-047.	5.4	343
12	Two-year Cosmology Large Angular Scale Surveyor (CLASS) Observations: 40 GHz Telescope Pointing, Beam Profile, Window Function, and Polarization Performance. <i>Astrophysical Journal</i> , 2020, 891, 134.	4.5	22
13	Sub-Kelvin cooling for two kilopixel bolometer arrays in the PIPER receiver. <i>Review of Scientific Instruments</i> , 2019, 90, 095104.	1.3	7
14	The Atacama Cosmology Telescope: two-season ACTPol extragalactic point sources and their polarization properties. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 5239-5262.	4.4	27
15	The Atacama Cosmology Telescope: The Two-season ACTPol Sunyaev-Zel'dovich Effect Selected Cluster Catalog. <i>Astrophysical Journal, Supplement Series</i> , 2018, 235, 20.	7.7	121
16	Characterization of the Mid-Frequency Arrays for Advanced ACTPol. <i>Journal of Low Temperature Physics</i> , 2018, 193, 267-275.	1.4	29
17	The primordial inflation polarization explorer (PIPER): current status and performance of the first flight (Conference Presentation). , 2018, , .		9
18	The Atacama Cosmology Telescope: two-season ACTPol spectra and parameters. <i>Journal of Cosmology and Astroparticle Physics</i> , 2017, 2017, 031-031.	5.4	120

#	ARTICLE	IF	CITATIONS
19	Two-season Atacama Cosmology Telescope polarimeter lensing power spectrum. <i>Physical Review D</i> , 2017, 95, .	4.7	104
20	Can CMB Surveys Help the AGN Community?. <i>Galaxies</i> , 2017, 5, 47.	3.0	3
21	THE ATACAMA COSMOLOGY TELESCOPE: THE POLARIZATION-SENSITIVE ACTPol INSTRUMENT. <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 21.	7.7	164
22	The First Multichroic Polarimeter Array on the Atacama Cosmology Telescope: Characterization and Performance. <i>Journal of Low Temperature Physics</i> , 2016, 184, 559-567.	1.4	9
23	Advanced ACTPol Cryogenic Detector Arrays and Readout. <i>Journal of Low Temperature Physics</i> , 2016, 184, 772-779.	1.4	240
24	Development of a Microwave SQUID-Multiplexed TES Array for MUSTANG-2. <i>Journal of Low Temperature Physics</i> , 2016, 184, 460-465.	1.4	15
25	Polarization sensitive Multi-Chroic MKIDs. , 2016, , .		6
26	Characterization of AlMn TES impedance, noise, and optical efficiency in the first 150 mm multichroic array for Advanced ACTPol. , 2016, , .		2
27	Design and Deployment of a Multichroic Polarimeter Array on the Atacama Cosmology Telescope. <i>Journal of Low Temperature Physics</i> , 2016, 184, 568-575.	1.4	16
28	Advanced ACTPol Multichroic Polarimeter Array Fabrication Process for 150 mm Wafers. <i>Journal of Low Temperature Physics</i> , 2016, 184, 634-641.	1.4	32
29	Highly uniform 150 mm diameter multichroic polarimeter array deployed for CMB detection. <i>Proceedings of SPIE</i> , 2016, , .	0.8	11
30	Evidence of Lensing of the Cosmic Microwave Background by Dark Matter Halos. <i>Physical Review Letters</i> , 2015, 114, 151302.	7.8	70
31	THE ATACAMA COSMOLOGY TELESCOPE: LENSING OF CMB TEMPERATURE AND POLARIZATION DERIVED FROM COSMIC INFRARED BACKGROUND CROSS-CORRELATION. <i>Astrophysical Journal</i> , 2015, 808, 7.	4.5	66
32	ACTPol: on-sky performance and characterization. <i>Proceedings of SPIE</i> , 2014, , .	0.8	16
33	MUSTANG2: a large focal plan array for the 100 meter Green Bank Telescope. <i>Proceedings of SPIE</i> , 2014, , .	0.8	15
34	Antireflection coatings for submillimeter silicon lenses. <i>Proceedings of SPIE</i> , 2014, , .	0.8	11
35	Horn Coupled Multichroic Polarimeters for the Atacama Cosmology Telescope Polarization Experiment. <i>Journal of Low Temperature Physics</i> , 2014, 176, 670.	1.4	25
36	The Atacama Cosmology Telescope: CMB polarization at 200 &lt;math>\mu\text{m}</math> and 9000. <i>Journal of Cosmology and Astroparticle Physics</i> , 2014, 2014, 007-007.	5.4	121

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37	Large-aperture wide-bandwidth antireflection-coated silicon lenses for millimeter wavelengths. Applied Optics, 2013, 52, 8747.	1.8	81
38	Multi-chroic Feed-Horn Coupled TES Polarimeters. Journal of Low Temperature Physics, 2012, 167, 879-884.	1.4	25