

Angiola Orlando

List of Publications by Year in descending order

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80
papers

4,499
citations

257450

24
h-index

110387

64
g-index

81
all docs

81
docs citations

81
times ranked

3161
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of B -Mode Polarization at Degree Angular Scales by BICEP2. Physical Review Letters, 2014, 112, 241101.	7.8	1,227
2	Joint Analysis of BICEP2/Keck Array and Planck Data. Physical Review Letters, 2015, 114, 101301.	7.8	819
3	Improved Constraints on Cosmology and Foregrounds from BICEP2 and Keck Array Cosmic Microwave Background Data with Inclusion of 95 GHz Band. Physical Review Letters, 2016, 116, 031302.	7.8	512
4	A MEASUREMENT OF THE COSMIC MICROWAVE BACKGROUND B -MODE POLARIZATION POWER SPECTRUM AT SUB-DEGREE SCALES WITH POLARBEAR. Astrophysical Journal, 2014, 794, 171.	4.5	233
5	IMPROVED MEASUREMENTS OF THE TEMPERATURE AND POLARIZATION OF THE COSMIC MICROWAVE BACKGROUND FROM QUaD. Astrophysical Journal, 2009, 705, 978-999.	4.5	225
6	BICEP2. II. EXPERIMENT AND THREE-YEAR DATA SET. Astrophysical Journal, 2014, 792, 62.	4.5	158
7	The space infrared telescope for cosmology and astrophysics: SPICA A joint mission between JAXA and ESA. Experimental Astronomy, 2009, 23, 193-219.	3.7	100
8	SECOND AND THIRD SEASON QUaD COSMIC MICROWAVE BACKGROUND TEMPERATURE AND POLARIZATION POWER SPECTRA. Astrophysical Journal, 2009, 692, 1247-1270.	4.5	98
9	Parity Violation Constraints Using Cosmic Microwave Background Polarization Spectra from 2006 and 2007 Observations by the QUaD Polarimeter. Physical Review Letters, 2009, 102, 161302.	7.8	96
10	Bicep2/KECK ARRAY VIII: MEASUREMENT OF GRAVITATIONAL LENSING FROM LARGE-SCALE B-MODE POLARIZATION. Astrophysical Journal, 2016, 833, 228.	4.5	80
11	BICEP2/KECK ARRAY V: MEASUREMENTS OF B -MODE POLARIZATION AT DEGREE ANGULAR SCALES AND 150 GHz BY THE KECK ARRAY. Astrophysical Journal, 2015, 811, 126.	4.5	79
12	First Season QUaD CMB Temperature and Polarization Power Spectra. Astrophysical Journal, 2008, 674, 22-28.	4.5	61
13	ANTENNA-COUPLED TES BOLOMETERS USED IN BICEP2, Keck Array, AND SPIDER. Astrophysical Journal, 2015, 812, 176.	4.5	53
14	QUaD: A HIGH-RESOLUTION COSMIC MICROWAVE BACKGROUND POLARIMETER. Astrophysical Journal, 2009, 692, 1221-1246.	4.5	47
15	MITO Measurements of the Sunyaev-Zeldovich Effect in the Coma Cluster of Galaxies. Astrophysical Journal, 2002, 574, L119-L122.	4.5	46
16	Bicep2. III. INSTRUMENTAL SYSTEMATICS. Astrophysical Journal, 2015, 814, 110.	4.5	38
17	bicep2/KECK ARRAY. IV. OPTICAL CHARACTERIZATION AND PERFORMANCE OF THE bicep2 AND KECK ARRAY EXPERIMENTS. Astrophysical Journal, 2015, 806, 206.	4.5	34
18	The HOLMES Experiment. Journal of Low Temperature Physics, 2016, 184, 922-929.	1.4	32

#	ARTICLE	IF	CITATIONS
19	SMALL ANGULAR SCALE MEASUREMENTS OF THE COSMIC MICROWAVE BACKGROUND TEMPERATURE POWER SPECTRUM FROM QUaD. <i>Astrophysical Journal</i> , 2009, 700, L187-L191.	4.5	31
20	Triple Experiment Spectrum of the Sunyaev-Zel'dovich Effect in the Coma Cluster: H O. <i>Astrophysical Journal</i> , 2003, 598, L75-L78.	4.5	30
21	Antenna-coupled TES bolometer arrays for CMB polarimetry. <i>Proceedings of SPIE</i> , 2008, , .	0.8	30
22	The Keck Array: a pulse tube cooled CMB polarimeter. <i>Proceedings of SPIE</i> , 2010, , .	0.8	30
23	The Keck Array: A Multi Camera CMB Polarimeter at the South Pole. <i>Journal of Low Temperature Physics</i> , 2012, 167, 827-833.	1.4	29
24	BICEP2 and Keck array: upgrades and improved beam characterization. <i>Proceedings of SPIE</i> , 2014, , .	0.8	26
25	The BICEP2 CMB polarization experiment. <i>Proceedings of SPIE</i> , 2010, , .	0.8	22
26	The BRAIN CMB polarization experiment. <i>New Astronomy Reviews</i> , 2007, 51, 256-259.	12.8	20
27	Optical performance of the BICEP2 Telescope at the South Pole. <i>Proceedings of SPIE</i> , 2010, , .	0.8	20
28	CHARACTERIZATION OF THE MILLIMETER-WAVE POLARIZATION OF CENTAURUS A WITH QUaD. <i>Astrophysical Journal</i> , 2010, 710, 1541-1550.	4.5	19
29	THE QUaD GALACTIC PLANE SURVEY. II. A COMPACT SOURCE CATALOG. <i>Astrophysical Journal, Supplement Series</i> , 2011, 195, 8.	7.7	18
30	COSMOLOGICAL PARAMETERS FROM THE QUAD CMB POLARIZATION EXPERIMENT. <i>Astrophysical Journal</i> , 2009, 701, 857-864.	4.5	17
31	The OLIMPO experiment. <i>New Astronomy Reviews</i> , 2007, 51, 385-389.	12.8	16
32	Antenna-coupled TES bolometer arrays for BICEP2/Keck and SPIDER. <i>Proceedings of SPIE</i> , 2010, , .	0.8	16
33	PARAMETER ESTIMATION FROM IMPROVED MEASUREMENTS OF THE COSMIC MICROWAVE BACKGROUND FROM QUaD. <i>Astrophysical Journal</i> , 2010, 716, 1040-1046.	4.5	15
34	BICEP2/KECK ARRAY. VII. MATRIX BASED E/B SEPARATION APPLIED TO BICEP2 AND THE KECK ARRAY. <i>Astrophysical Journal</i> , 2016, 825, 66.	4.5	15
35	Measuring the electron neutrino mass with improved sensitivity: the HOLMES experiment. <i>Journal of Instrumentation</i> , 2017, 12, C02046-C02046.	1.2	14
36	The quasi-optical design of the QUaD telescope. <i>Infrared Physics and Technology</i> , 2008, 51, 277-286.	2.9	13

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37	BICEP2 and Keck array operational overview and status of observations. Proceedings of SPIE, 2012, , .	0.8	13
38	High-resolution high-speed microwave-multiplexed low temperature microcalorimeters for the HOLMES experiment. European Physical Journal C, 2019, 79, 1.	3.9	13
39	Working principle and demonstrator of microwave-multiplexing for the HOLMES experiment microcalorimeters. Journal of Instrumentation, 2019, 14, P10035-P10035.	1.2	12
40	Initial performance of the BICEP2 antenna-coupled superconducting bolometers at the South Pole. , 2010, , .		11
41	THE QUaD GALACTIC PLANE SURVEY. I. MAPS AND ANALYSIS OF DIFFUSE EMISSION. Astrophysical Journal, 2010, 722, 1057-1077.	4.5	11
42	Production and separation of ^{163}Ho for nuclear physics experiments. PLoS ONE, 2018, 13, e0200910.	2.5	11
43	Status of the HOLMES Experiment to Directly Measure the Neutrino Mass. Journal of Low Temperature Physics, 2018, 193, 1137-1145.	1.4	11
44	A ground-based experiment for CMBR anisotropy observations: MITO. New Astronomy Reviews, 1999, 43, 297-315.	12.8	10
45	The Cryogenic AntiCoincidence Detector for the ATHENA X-IFU: Design Aspects by Geant4 Simulation and Preliminary Characterization of the New Single Pixel. Journal of Low Temperature Physics, 2016, 184, 680-687.	1.4	7
46	Updates on the Transition-Edge Sensors and Multiplexed Readout for HOLMES. Journal of Low Temperature Physics, 2018, 193, 1167-1173.	1.4	7
47	Absolute calibration and beam reconstruction of MITO(a ground-based instrument in the millimetric) Tj ETQq1 1 0.784314 rgBT /Overlo	1.8	6
48	A far infrared polarimeter. New Astronomy, 2004, 10, 79-89.	1.8	6
49	Microfabrication of Transition-Edge Sensor Arrays of Microcalorimeters with ^{163}Ho for Direct Neutrino Mass Measurements with HOLMES. Journal of Low Temperature Physics, 2018, 193, 771-776.	1.4	6
50	^{163}Ho distillation and implantation for the HOLMES experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 220-221.	1.6	6
51	The quasi-optical design of the QUaD Telescope. , 2004, , .		5
52	A waveguide-coupled millimetre-wave TES bolometer suitable for 2-D arrays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 559, 534-535.	1.6	5
53	Transition Edge Sensor Focal Plane Arrays for the BICEP2, Keck, and Spider CMB Polarimeters. IEEE Transactions on Applied Superconductivity, 2011, 21, 219-222.	1.7	5
54	^{163}Ho Distillation and Implantation for HOLMES Experiment. Journal of Low Temperature Physics, 2019, 194, 453-459.	1.4	5

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55	Antenna-coupled TES Arrays For The BICEP2+Keck and SPIDER polarimeters. , 2009, , .		4
56	CLOVER: The CMB Polarization Observer. EAS Publications Series, 2005, 14, 251-256.	0.3	4
57	Far-infrared polarimeter with very low instrumental polarization. , 2003, , .		3
58	MITO: A "creative approach" for Sunyaev-Zeldovich effect observations from ground. New Astronomy Reviews, 2007, 51, 368-373.	12.8	3
59	Transition-Edge Sensor Arrays of Microcalorimeters with ^{163}Ho for Direct Neutrino Mass Measurements with HOLMES. Journal of Low Temperature Physics, 2016, 184, 892-896.	1.4	3
60	A two-stage ^3He - ^4He fridge for bolometric photometry. Cryogenics, 1999, 39, 459-464.	1.7	2
61	The Sunyaev-Zeldovich MITO project. New Astronomy Reviews, 2001, 45, 329-335.	12.8	2
62	Characterization and Fabrication of the TES Arrays for the Spider, Keck and BICEP2 CMB Polarimeters. Journal of Low Temperature Physics, 2012, 167, 146-151.	1.4	2
63	MAD-4-MITO, a multi array of detectors for ground-based mm/submm SZ observations. AIP Conference Proceedings, 2002, , .	0.4	1
64	CASPER: Concordia Atmospheric Spectroscopy of Emitted Radiation. EAS Publications Series, 2005, 14, 233-238.	0.3	1
65	Development of TES detectors for low-background far infrared space astronomy. , 2006, , .		1
66	Status of the HOLMES detector development. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 182-183.	1.6	1
67	Direct neutrino mass measurement by the HOLMES experiment. Journal of Physics: Conference Series, 2018, 1056, 012039.	0.4	1
68	Probing the absolute neutrino mass scale with ^{163}Ho : The HOLMES project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 252-253.	1.6	1
69	Search for the Sunyaev-Zeldovich effect in the coma cluster with the MITO experiment. AIP Conference Proceedings, 2001, , .	0.4	0
70	CLOVER Experiment: the receiver block. EAS Publications Series, 2005, 14, 245-250.	0.3	0
71	Multifrequency Observations of the S-Z Effect towards A1656. Symposium - International Astronomical Union, 2005, 201, 447-448.	0.1	0
72	Microfabrication and Device Parameter Testing of the Focal Plane Arrays for the Spider and BICEP2+Keck CMB Polarimeters. , 2009, , .		0

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73	Characterization of the microwave multiplexing readout and TESs for HOLMES. Journal of Physics: Conference Series, 2018, 1056, 012022.	0.4	0
74	High energy resolution thermal microcalorimeters for the HOLMES experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 180-181.	1.6	0
75	End-to-End Instrument Performance Simulation System (EIPS) Framework: Application to Satellite Microwave Atmospheric Sounding Systems. Remote Sensing, 2019, 11, 1412.	4.0	0
76	First characterization of a superconducting filter-bank spectrometer for hyper-spectral microwave atmospheric sounding with transition edge sensor readout. Journal of Applied Physics, 2020, 127, 244501.	2.5	0
77	THE BRAIN EXPERIMENT. , 2008, , .		0
78	Information content analysis for a novel TES-based hyperspectral microwave atmospheric sounding instrument. , 2018, , .		0
79	The calibration strategy for the SPICA/SAFARI instrument. , 2020, , .		0
80	A millimeter-wave on-chip superconducting filter bank spectrometer for atmospheric science. , 2020, , .		0