

Bruno Maffei

List of Publications by Year in descending order

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72
papers

4,383
citations

236925

25
h-index

330143

37
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72
all docs

72
docs citations

72
times ranked

4360
citing authors

#	ARTICLE	IF	CITATIONS
1	Microwave spectro-polarimetry of matter and radiation across space and time. <i>Experimental Astronomy</i> , 2021, 51, 1471-1514.	3.7	15
2	Baryon Acoustic Oscillations from Integrated Neutral Gas Observations: an instrument to observe the 21cm hydrogen line in the redshift range $0.13 < z < 0.45$ status update. <i>Anais Da Academia Brasileira De Ciencias</i> , 2021, 93, e20201096.	0.8	0
3	Updated Design of the CMB Polarization Experiment Satellite LiteBIRD. <i>Journal of Low Temperature Physics</i> , 2020, 199, 1107-1117.	1.4	64
4	Overview of the medium and high frequency telescopes of the LiteBIRD space mission. , 2020, , .		3
5	LiteBIRD satellite: JAXA's new strategic L-class mission for all-sky surveys of cosmic microwave background polarization. , 2020, , .		79
6	Simulations of athermal phonon propagation in a cryogenic semiconducting bolometer. , 2020, , .		0
7	Concept design of low frequency telescope for CMB B-mode polarization satellite LiteBIRD. , 2020, , .		4
8	The optical design of the Litebird Medium and High Frequency Telescope. , 2020, , .		4
9	Detection chain and electronic readout of the QUBIC instrument. , 2020, , .		0
10	LiteBIRD: A Satellite for the Studies of B-Mode Polarization and Inflation from Cosmic Background Radiation Detection. <i>Journal of Low Temperature Physics</i> , 2019, 194, 443-452.	1.4	193
11	QUBIC: Exploring the Primordial Universe with the Q&U Bolometric Interferometer. <i>Universe</i> , 2019, 5, 42.	2.5	15
12	The LiteBIRD Satellite Mission: Sub-Kelvin Instrument. <i>Journal of Low Temperature Physics</i> , 2018, 193, 1048-1056.	1.4	96
13	Commissioning of a common-user test facility to evaluate the effects of high-energy particles on next-generation cryogenic detectors. , 2018, , .		1
14	Performance of NbSi transition-edge sensors readout with a 128 MUX factor for the QUBIC experiment. , 2018, , .		4
15	Thermal architecture for the QUBIC cryogenic receiver. , 2018, , .		5
16	QUBIC: the Q and U bolometric interferometer for cosmology. , 2018, , .		6
17	A new pulse shape description for alpha particle pulses in a highly-sensitive sub-Kelvin bolometer. , 2018, , .		4
18	Optical modelling and analysis of the Q and U bolometric interferometer for cosmology. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
19	Metamaterial-based Toraldo pupils for super-resolution at millimetre wavelengths. , 2018, , .		2
20	Simulations and performance of the QUBIC optical beam combiner. , 2018, , .		3
21	Next generation sub-millimetre wave focal plane array coupling concepts: an ESA TRP project to develop multichroic focal plane pixels for future CMB polarisation experiments. , 2018, , .		0
22	Radiation patterns of multimode feed-horn-coupled bolometers for FAR-IR space applications. Proceedings of SPIE, 2017, , .	0.8	0
23	W-band planar antennas for next generation sub-millimeter focal plane arrays. Proceedings of SPIE, 2016, , .	0.8	0
24	Development of the multi-mode horn-lens configuration for the LSPE-SWIPE B-mode experiment. Proceedings of SPIE, 2016, , .	0.8	6
25	Modeling multimode feed-horn coupled bolometers for millimeter-wave and terahertz astronomical instrumentation. , 2016, , .		1
26	Multi-octave metamaterial reflective half-wave plate for millimeter and sub-millimeter wave applications. Applied Optics, 2016, 55, 10255.	2.1	12
27	Joint Analysis of BICEP2/Keck Array and Planck Data. Physical Review Letters, 2015, 114, 101301.	7.8	819
28	Planck 2013 results. XIV. Zodiacal emission. Astronomy and Astrophysics, 2014, 571, A14.	5.1	90
29	Development of millimetre-wave quasi-optical devices based on the mesh technology. , 2014, , .		1
30	PRISM (Polarized Radiation Imaging and Spectroscopy Mission): an extended white paper. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 006-006.	5.4	138
31	The ArTĀMiS wide-field sub-millimeter camera: preliminary on-sky performance at 350 microns. Proceedings of SPIE, 2014, , .	0.8	9
32	High performance WR-1.5 corrugated horn based on stacked rings. Proceedings of SPIE, 2014, , .	0.8	1
33	Spectral definition of the ArTeMiS instrument. , 2014, , .		1
34	Optical design for the 450, 350, and 200 Åµm ArTeMiS camera. Proceedings of SPIE, 2014, , .	0.8	0
35	A modular spiral phase plate design for orbital angular momentum generation at millimetre wavelengths. Optics Express, 2014, 22, 14712.	3.4	129
36	Three-dimensional measurements of a millimeter wave orbital angular momentum vortex. Optics Letters, 2014, 39, 626.	3.3	36

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37	Development of low loss waveguide filters for radio-astronomy applications. Infrared Physics and Technology, 2013, 61, 224-229.	2.9	8
38	Dielectrically embedded flat mesh lens for millimeter waves applications. Applied Optics, 2013, 52, 2218.	1.8	23
39	The Herschelâ... PEP/HerMES luminosity function â I. Probing the evolution of PACS selected Galaxies to z âf 4. Monthly Notices of the Royal Astronomical Society, 2013, 432, 23-52.	4.4	341
40	Hâi intensity mapping: a single dish approach. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1239-1256.	4.4	173
41	q-plate for millimeter-wave orbital angular momentum manipulation. Applied Optics, 2013, 52, 635.	1.8	30
42	The suppression of star formation by powerful active galactic nuclei. Nature, 2012, 485, 213-216.	27.8	175
43	A BROADBAND METAL-MESH HALF-WAVE PLATE FOR MILLIMETRE WAVE LINEAR POLARISATION ROTATION. Progress in Electromagnetics Research M, 2012, 25, 101-114.	0.9	38
44	The Herschel Multi-tiered Extragalactic Survey: SPIRE-mm photometric redshifts. Monthly Notices of the Royal Astronomical Society, 2012, 419, 2758-2773.	4.4	99
45	The Herschel Multi-tiered Extragalactic Survey: HerMES. Monthly Notices of the Royal Astronomical Society, 2012, 424, 1614-1635.	4.4	646
46	Stereolithographed MM-wave corrugated horn antennas. , 2011, , .		37
47	A Broadband W-Band Polarization Rotator With Very Low Cross Polarization. IEEE Microwave and Wireless Components Letters, 2011, 21, 127-129.	3.2	7
48	Submillimetre galaxies reside in dark matter haloes with masses greater than 3â10 ¹¹ solar masses. Nature, 2011, 470, 510-512.	27.8	98
49	QUBIC: The QU bolometric interferometer for cosmology. Astroparticle Physics, 2011, 34, 705-716.	4.3	47
50	QUIJOTE telescope design and fabrication. Proceedings of SPIE, 2010, , .	0.8	9
51	Herschel reveals a T _{dust} -unbiased selection of zâ2 ultraluminous infrared galaxies. Monthly Notices of the Royal Astronomical Society, 2010, 409, 22-28.	4.4	63
52	The Herschel Multi-Tiered Extragalactic Survey: source extraction and cross-identifications in confusion-dominated SPIRE images. Monthly Notices of the Royal Astronomical Society, 2010, 409, 48-65.	4.4	156
53	Evolution of dust temperature of galaxies through cosmic time as seen by Herschelâ... Monthly Notices of the Royal Astronomical Society, 2010, 409, 75-82.	4.4	145
54	HerMES: deep galaxy number counts from a P(D) fluctuation analysis of SPIRE Science Demonstration Phase observations. Monthly Notices of the Royal Astronomical Society, 2010, 409, 109-121.	4.4	98

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55	Alignment Verification of the PLANCK Reflector Configuration by RCS Measurements at 320 GHz. , 2008, , .		4
56	Dielectric constant reduction using porous substrates in finline millimetre and submillimetre detectors. Proceedings of SPIE, 2008, , .	0.8	0
57	A Broadband WR10 Turnstile Junction Orthomode Transducer. IEEE Microwave and Wireless Components Letters, 2007, 17, 286-288.	3.2	85
58	Observing cosmic microwave background polarization through ice. Monthly Notices of the Royal Astronomical Society, 2007, 376, 645-650.	4.4	7
59	Planck-HFI focal plane concept. , 2004, , .		1
60	Measuring the cosmic microwave background polarization with the QUaD experiment. , 2004, , .		3
61	The quasi-optical design of the QUaD Telescope. , 2004, , .		5
62	Study of corrugated Winston horns. , 2004, , .		8
63	Bandwidth characteristics of corrugated waveguide-horn feeds for CMB experiments. , 2004, , .		0
64	Planck-HFI thermal architecture: from requirements to solutions. , 2003, , .		4
65	Design and performances of a cryogenic Fabry-Perot for submillimeter astronomy. , 2003, , .		1
66	Astronomical demonstration of superconducting bolometer arrays. , 2003, , .		7
67	The Planck high-frequency instrument: a third-generation CMB probe and the first submillimeter surveyor. , 2003, 4850, 730.		11
68	Archeops: a high resolution, large sky coverage balloon experiment for mapping cosmic microwave background anisotropies. Astroparticle Physics, 2002, 17, 101-124.	4.3	56
69	Radiation patterns of multi-moded corrugated horns for far-IR space applications. Infrared Physics and Technology, 2001, 42, 515-528.	2.9	33
70	Semi-analytic modelling of galaxy evolution in the IR/submm range. Monthly Notices of the Royal Astronomical Society, 1998, 295, 877-898.	4.4	222
71	Faint galaxy counts and diffuse backgrounds in the submm/mm range. AIP Conference Proceedings, 1996, , .	0.4	2
72	<title>Design of a far-infrared Fabry-Perot spectrometer for astronomy</title>. , 1993, , .		0