

Bruno Maffei

List of Publications by Year in descending order

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Version: 2024-02-01

72
papers

4,383
citations

236925

25
h-index

330143

37
g-index

72
all docs

72
docs citations

72
times ranked

4360
citing authors

#	ARTICLE	IF	CITATIONS
1	Joint Analysis of BICEP2/Keck Array and Planck Data. Physical Review Letters, 2015, 114, 101301.	7.8	819
2	The Herschel Multi-tiered Extragalactic Survey: HerMES. Monthly Notices of the Royal Astronomical Society, 2012, 424, 1614-1635.	4.4	646
3	The Herschel... PEP/HerMES luminosity function " I. Probing the evolution of PACS selected Galaxies to z of 4. Monthly Notices of the Royal Astronomical Society, 2013, 432, 23-52.	4.4	341
4	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
5	LiteBIRD: A Satellite for the Studies of B-Mode Polarization and Inflation from Cosmic Background Radiation Detection. Journal of Low Temperature Physics, 2019, 194, 443-452.	1.4	193
6	The suppression of star formation by powerful active galactic nuclei. Nature, 2012, 485, 213-216.	27.8	175
7	H ₂ intensity mapping: a single dish approach. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1239-1256.	4.4	173
8	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
9	Evolution of dust temperature of galaxies through cosmic time as seen by Herschel... Monthly Notices of the Royal Astronomical Society, 2010, 409, 75-82.	4.4	145
10	PRISM (Polarized Radiation Imaging and Spectroscopy Mission): an extended white paper. Journal of Cosmology and Astroparticle Physics, 2014, 2014, 006-006.	5.4	138
11	A modular spiral phase plate design for orbital angular momentum generation at millimetre wavelengths. Optics Express, 2014, 22, 14712.	3.4	129
12	The Herschel Multi-tiered Extragalactic Survey: SPIRE-mm photometric redshifts. Monthly Notices of the Royal Astronomical Society, 2012, 419, 2758-2773.	4.4	99
13	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
14	Submillimetre galaxies reside in dark matter haloes with masses greater than 3 × 10 ¹¹ solar masses. Nature, 2011, 470, 510-512.	27.8	98
15	The LiteBIRD Satellite Mission: Sub-Kelvin Instrument. Journal of Low Temperature Physics, 2018, 193, 1048-1056.	1.4	96
16	Planck 2013 results. XIV. Zodiacal emission. Astronomy and Astrophysics, 2014, 571, A14.	5.1	90
17	A Broadband WR10 Turnstile Junction Orthomode Transducer. IEEE Microwave and Wireless Components Letters, 2007, 17, 286-288.	3.2	85
18	LiteBIRD satellite: JAXA's new strategic L-class mission for all-sky surveys of cosmic microwave background polarization. , 2020, , .		79

#	ARTICLE	IF	CITATIONS
19	Updated Design of the CMB Polarization Experiment Satellite LiteBIRD. Journal of Low Temperature Physics, 2020, 199, 1107-1117.	1.4	64
20	Herschel reveals a Tdust-unbiased selection of $z \sim 1/2$ ultraluminous infrared galaxies. Monthly Notices of the Royal Astronomical Society, 2010, 409, 22-28.	4.4	63
21	Archeops: a high resolution, large sky coverage balloon experiment for mapping cosmic microwave background anisotropies. Astroparticle Physics, 2002, 17, 101-124.	4.3	56
22	QUBIC: The QU bolometric interferometer for cosmology. Astroparticle Physics, 2011, 34, 705-716.	4.3	47
23	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
24	Stereolithographed MM-wave corrugated horn antennas. , 2011, , .		37
25	Three-dimensional measurements of a millimeter wave orbital angular momentum vortex. Optics Letters, 2014, 39, 626.	3.3	36
26	Radiation patterns of multi-moded corrugated horns for far-IR space applications. Infrared Physics and Technology, 2001, 42, 515-528.	2.9	33
27	q-plate for millimeter-wave orbital angular momentum manipulation. Applied Optics, 2013, 52, 635.	1.8	30
28	Dielectrically embedded flat mesh lens for millimeter waves applications. Applied Optics, 2013, 52, 2218.	1.8	23
29	QUBIC: Exploring the Primordial Universe with the Q&U Bolometric Interferometer. Universe, 2019, 5, 42.	2.5	15
30	Microwave spectro-polarimetry of matter and radiation across space and time. Experimental Astronomy, 2021, 51, 1471-1514.	3.7	15
31	Multi-octave metamaterial reflective half-wave plate for millimeter and sub-millimeter wave applications. Applied Optics, 2016, 55, 10255.	2.1	12
32	The Planck high-frequency instrument: a third-generation CMB probe and the first submillimeter surveyor. , 2003, 4850, 730.		11
33	QUIJOTE telescope design and fabrication. Proceedings of SPIE, 2010, , .	0.8	9
34	The ArT&MIS wide-field sub-millimeter camera: preliminary on-sky performance at 350 microns. Proceedings of SPIE, 2014, , .	0.8	9
35	Study of corrugated Winston horns. , 2004, , .		8
36	Development of low loss waveguide filters for radio-astronomy applications. Infrared Physics and Technology, 2013, 61, 224-229.	2.9	8

#	ARTICLE	IF	CITATIONS
37	Astronomical demonstration of superconducting bolometer arrays. , 2003, , .		7
38	Observing cosmic microwave background polarization through ice. Monthly Notices of the Royal Astronomical Society, 2007, 376, 645-650.	4.4	7
39	A Broadband W-Band Polarization Rotator With Very Low Cross Polarization. IEEE Microwave and Wireless Components Letters, 2011, 21, 127-129.	3.2	7
40	Development of the multi-mode horn-lens configuration for the LSPE-SWIPE B-mode experiment. Proceedings of SPIE, 2016, , .	0.8	6
41	QUBIC: the Q and U bolometric interferometer for cosmology. , 2018, , .		6
42	The quasi-optical design of the QUaD Telescope. , 2004, , .		5
43	Thermal architecture for the QUBIC cryogenic receiver. , 2018, , .		5
44	Planck-HFI thermal architecture: from requirements to solutions. , 2003, , .		4
45	Alignment Verification of the PLANCK Reflector Configuration by RCS Measurements at 320 GHz. , 2008, , .		4
46	Performance of NbSi transition-edge sensors readout with a 128 MUX factor for the QUBIC experiment. , 2018, , .		4
47	A new pulse shape description for alpha particle pulses in a highly-sensitive sub-Kelvin bolometer. , 2018, , .		4
48	Concept design of low frequency telescope for CMB B-mode polarization satellite LiteBIRD. , 2020, , .		4
49	The optical design of the Litebird Medium and High Frequency Telescope. , 2020, , .		4
50	Measuring the cosmic microwave background polarization with the QUaD experiment. , 2004, , .		3
51	Overview of the medium and high frequency telescopes of the LiteBIRD space mission. , 2020, , .		3
52	Simulations and performance of the QUBIC optical beam combiner. , 2018, , .		3
53	Faint galaxy counts and diffuse backgrounds in the submm/mm range. AIP Conference Proceedings, 1996, , .	0.4	2
54	Metamaterial-based Toraldo pupils for super-resolution at millimetre wavelengths. , 2018, , .		2

#	ARTICLE	IF	CITATIONS
55	Design and performances of a cryogenic Fabry-Perot for submillimeter astronomy. , 2003, , .		1
56	Planck-HFI focal plane concept. , 2004, , .		1
57	Development of millimetre-wave quasi-optical devices based on the mesh technology. , 2014, , .		1
58	High performance WR-1.5 corrugated horn based on stacked rings. Proceedings of SPIE, 2014, , .	0.8	1
59	Spectral definition of the ArTeMiS instrument. , 2014, , .		1
60	Modeling multimode feed-horn coupled bolometers for millimeter-wave and terahertz astronomical instrumentation. , 2016, , .		1
61	Commissioning of a common-user test facility to evaluate the effects of high-energy particles on next-generation cryogenic detectors. , 2018, , .		1
62	<title>Design of a far-infrared Fabry-Perot spectrometer for astronomy</title>. , 1993, , .		0
63	Bandwidth characteristics of corrugated waveguide-horn feeds for CMB experiments. , 2004, , .		0
64	Dielectric constant reduction using porous substrates in finline millimetre and submillimetre detectors. Proceedings of SPIE, 2008, , .	0.8	0
65	Optical design for the 450, 350, and 200 Åµm ArTeMiS camera. Proceedings of SPIE, 2014, , .	0.8	0
66	W-band planar antennas for next generation sub-millimeter focal plane arrays. Proceedings of SPIE, 2016, , .	0.8	0
67	Radiation patterns of multimode feed-horn-coupled bolometers for FAR-IR space applications. Proceedings of SPIE, 2017, , .	0.8	0
68	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. Anais Da Academia Brasileira De Ciencias, 2021, 93, e20201096.	0.8	0
69	Optical modelling and analysis of the Q and U bolometric interferometer for cosmology. , 2018, , .		0
70	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
71	Simulations of athermal phonon propagation in a cryogenic semiconducting bolometer. , 2020, , .		0
72	Detection chain and electronic readout of the QUBIC instrument. , 2020, , .		0