

Amedeo Balbi

List of Publications by Year in descending order

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116
papers

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44042

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#	ARTICLE	IF	CITATIONS
1	MAXIMA-1: A Measurement of the Cosmic Microwave Background Anisotropy on Angular Scales of 10[arcmin]â€“5Â°. <i>Astrophysical Journal</i> , 2000, 545, L5-L9.	1.6	1,058
2	Cosmology from MAXIMA-1, BOOMERANG, and COBE DMR Cosmic Microwave Background Observations. <i>Physical Review Letters</i> , 2001, 86, 3475-3479.	2.9	433
3	<i>Planck</i> early results. I. The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2011, 536, A1.	2.1	394
4	Constraints on Cosmological Parameters from MAXIMA-1. <i>Astrophysical Journal</i> , 2000, 545, L1-L4.	1.6	384
5	<i>Planck</i> early results. VIII. The all-sky early Sunyaev-Zeldovich cluster sample. <i>Astronomy and Astrophysics</i> , 2011, 536, A8.	2.1	335
6	A High Spatial Resolution Analysis of the MAXIMA-1 Cosmic Microwave Background Anisotropy Data. <i>Astrophysical Journal</i> , 2001, 561, L1-L5.	1.6	317
7	<i>Planck</i> early results. XIX. All-sky temperature and dust optical depth from <i>Planck</i> and IRAS. Constraints on the â€œdark gasâ€ in our Galaxy. <i>Astronomy and Astrophysics</i> , 2011, 536, A19.	2.1	314
8	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A131.	2.1	276
9	<i>Planck</i> pre-launch status: The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2010, 520, A1.	2.1	268
10	Cosmological Implications of the MAXIMA-1 High-Resolution Cosmic Microwave Background Anisotropy Measurement. <i>Astrophysical Journal</i> , 2001, 561, L7-L10.	1.6	226
11	<i>Planck</i> early results. VII. The Early Release Compact Source Catalogue. <i>Astronomy and Astrophysics</i> , 2011, 536, A7.	2.1	224
12	<i>Planck</i> early results. XXV. Thermal dust in nearby molecular clouds. <i>Astronomy and Astrophysics</i> , 2011, 536, A25.	2.1	184
13	<i>Planck</i> early results. XVIII. The power spectrum of cosmic infrared background anisotropies. <i>Astronomy and Astrophysics</i> , 2011, 536, A18.	2.1	180
14	<i>Planck</i> early results. XXIV. Dust in the diffuse interstellar medium and the Galactic halo. <i>Astronomy and Astrophysics</i> , 2011, 536, A24.	2.1	179
15	<i>Planck</i> early results. XI. Calibration of the local galaxy cluster Sunyaev-Zeldovich scaling relations. <i>Astronomy and Astrophysics</i> , 2011, 536, A11.	2.1	174
16	Integrated Sachs-Wolfe effect from the cross correlation of WMAP 3Â year and the NRAO VLA sky survey data: New results and constraints on dark energy. <i>Physical Review D</i> , 2006, 74, .	1.6	162
17	<i>Planck</i> early results. XX. New light on anomalous microwave emission from spinning dust grains. <i>Astronomy and Astrophysics</i> , 2011, 536, A20.	2.1	155
18	<i>Planck</i> early results. XXIII. The first all-sky survey of Galactic cold clumps. <i>Astronomy and Astrophysics</i> , 2011, 536, A23.	2.1	152

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19	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 557, A52.	2.1	141
20	Spherical needlets for cosmic microwave background data analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 383, 539-545.	1.6	135
21	<i>Planck</i> early results. IX. <i>XMM-Newton</i> follow-up for validation of <i>Planck</i> cluster candidates. <i>Astronomy and Astrophysics</i> , 2011, 536, A9.	2.1	126
22	<i>Planck</i> early results. X. Statistical analysis of Sunyaev-Zeldovich scaling relations for X-ray galaxy clusters. <i>Astronomy and Astrophysics</i> , 2011, 536, A10.	2.1	124
23	<i>Planck</i> early results. XVII. Origin of the submillimetre excess dust emission in the Magellanic Clouds. <i>Astronomy and Astrophysics</i> , 2011, 536, A17.	2.1	123
24	<i>Planck</i> early results. XXI. Properties of the interstellar medium in the Galactic plane. <i>Astronomy and Astrophysics</i> , 2011, 536, A21.	2.1	119
25	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 554, A139.	2.1	106
26	<i>Planck</i> early results. XIII. Statistical properties of extragalactic radio sources in the <i>Planck</i> Early Release Compact Source Catalogue. <i>Astronomy and Astrophysics</i> , 2011, 536, A13.	2.1	103
27	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 554, A140.	2.1	101
28	<i>Planck</i> early results. XII. Cluster Sunyaev-Zeldovich optical scaling relations. <i>Astronomy and Astrophysics</i> , 2011, 536, A12.	2.1	100
29	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A134.	2.1	94
30	<i>Planck</i> early results. XV. Spectral energy distributions and radio continuum spectra of northern extragalactic radio sources. <i>Astronomy and Astrophysics</i> , 2011, 536, A15.	2.1	93
31	<i>Planck</i> early results. II. The thermal performance of <i>Planck</i> . <i>Astronomy and Astrophysics</i> , 2011, 536, A2.	2.1	91
32	<i>Planck</i> early results. XXII. The submillimetre properties of a sample of Galactic cold clumps. <i>Astronomy and Astrophysics</i> , 2011, 536, A22.	2.1	88
33	<i>Planck</i> pre-launch status: The <i>Planck</i> -LFI programme. <i>Astronomy and Astrophysics</i> , 2010, 520, A3.	2.1	81
34	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2014, 561, A97.	2.1	80
35	Tests for Gaussianity of the MAXIMA-1 Cosmic Microwave Background Map. <i>Physical Review Letters</i> , 2001, 87, 251303.	2.9	77
36	Real-time cosmology. <i>Physics Reports</i> , 2012, 521, 95-134.	10.3	77

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37	<i>Planck</i> early results. XVI. The <i>Planck</i> view of nearby galaxies. <i>Astronomy and Astrophysics</i> , 2011, 536, A16.	2.1	74
38	<i>Planck</i> early results. XXVI. Detection with <i>Planck</i> and confirmation by <i>XMM-Newton</i> of PLCKG266.6â€“27.3, an exceptionally X-ray luminous and massive galaxy cluster at $z \sim 1$. <i>Astronomy and Astrophysics</i> , 2011, 536, A26.	2.1	72
39	Constraints on flat cosmologies with tracking quintessence from cosmic microwave background observations. <i>Physical Review D</i> , 2002, 65, .	1.6	69
40	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A129.	2.1	63
41	<i>Planck</i> early results. XIV. ERCSC validation and extreme radio sources. <i>Astronomy and Astrophysics</i> , 2011, 536, A14.	2.1	61
42	Making maps of the cosmic microwave background: The MAXIMA example. <i>Physical Review D</i> , 2001, 65, .	1.6	59
43	Estimate of the Cosmological Bispectrum from the MAXIMA-1 Cosmic Microwave Background Map. <i>Physical Review Letters</i> , 2002, 88, 241302.	2.9	58
44	The time evolution of cosmological redshift as a test of dark energy. <i>Monthly Notices of the Royal Astronomical Society</i> , 2007, 382, 1623-1629.	1.6	58
45	Needlet detection of features in the WMAP CMB sky and the impact on anisotropies and hemispherical asymmetries. <i>Physical Review D</i> , 2008, 78, .	1.6	58
46	$\langle \delta \delta \rangle_{\pm} \langle DM \rangle$ Observational constraints on unified dark matter with constant speed of sound. <i>Physical Review D</i> , 2007, 76, .	1.6	52
47	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A133.	2.1	52
48	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2012, 543, A102.	2.1	50
49	ROMA: A map-making algorithm for polarised CMB data sets. <i>Astronomy and Astrophysics</i> , 2005, 436, 1159-1165.	2.1	48
50	Affine equation of state from quintessence and k-essence fields. <i>Classical and Quantum Gravity</i> , 2007, 24, 5413-5425.	1.5	47
51	Multiple methods for estimating the bispectrum of the cosmic microwave background with application to the MAXIMA data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2003, 341, 623-643.	1.6	46
52	Making sky maps from Planck data. <i>Astronomy and Astrophysics</i> , 2007, 467, 761-775.	2.1	45
53	Asymmetric Beams in Cosmic Microwave Background Anisotropy Experiments. <i>Astrophysical Journal, Supplement Series</i> , 2001, 132, 1-17.	3.0	43
54	Late universe dynamics with scale-independent linear couplings in the dark sector. <i>Physical Review D</i> , 2008, 78, .	1.6	43

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55	Unbiased estimation of an angular power spectrum. <i>Journal of Cosmology and Astroparticle Physics</i> , 2005, 2005, 001-001.	1.9	41
56	Constraints on primordial non-Gaussianity from a needlet analysis of the WMAP-5 data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 396, 1682-1688.	1.6	37
57	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A130.	2.1	36
58	Secondary CMB anisotropies from the kinetic SZ effect. <i>Astronomy and Astrophysics</i> , 2001, 367, 1-17.	2.1	36
59	Implications for Quintessence Models from MAXIMA-1 and BOOMERANG-98. <i>Astrophysical Journal</i> , 2001, 547, L89-L92.	1.6	36
60	Searching for a dipole modulation in the large-scale structure of the Universe. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 2392-2397.	1.6	32
61	Cosmological parameters and the WMAP data revisited. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 354, 905-912.	1.6	30
62	Comparison of map-making algorithms for CMB experiments. <i>Astronomy and Astrophysics</i> , 2006, 449, 1311-1322.	2.1	30
63	Frequentist estimation of cosmological parameters from the MAXIMA-1 cosmic microwave background anisotropy data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2002, 334, 11-19.	1.6	27
64	Cosmic Microwave Background Anisotropy at Degree Angular Scales and the Thermal History of the Universe. <i>Astrophysical Journal</i> , 1997, 480, 1-5.	1.6	26
65	NeedATool: A NEEDLET ANALYSIS TOOL FOR COSMOLOGICAL DATA PROCESSING. <i>Astrophysical Journal</i> , 2010, 723, 1-9.	1.6	26
66	Affine parametrization of the dark sector: Constraints from WMAP5 and SDSS. <i>Physical Review D</i> , 2008, 78, .	1.6	25
67	The habitability of the Milky Way during the active phase of its central supermassive black hole. <i>Scientific Reports</i> , 2017, 7, 16626.	1.6	25
68	Making maps from Planck LFI 30 GHz data. <i>Astronomy and Astrophysics</i> , 2007, 471, 361-380.	2.1	25
69	Cosmic parallax as a probe of late time anisotropic expansion. <i>Physical Review D</i> , 2009, 80, .	1.6	24
70	Probing Dark Energy with the Cosmic Microwave Background: Projected Constraints from the Wilkinson Microwave Anisotropy Probe and Planck. <i>Astrophysical Journal</i> , 2003, 588, L5-L8.	1.6	23
71	Needlet bispectrum asymmetries in the <i>WMAP</i> 5-year data. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2010, 402, L34-L38.	1.2	22
72	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A128.	2.1	20

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73	<i>Planck</i> Âintermediate results. XII: Diffuse Galactic components in the Gould Belt system. <i>Astronomy and Astrophysics</i> , 2013, 557, A53.	2.1	19
74	Peculiar acceleration. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 660, 81-86.	1.5	18
75	MAXIMA: A balloon-borne cosmic microwave background anisotropy experiment. <i>Review of Scientific Instruments</i> , 2006, 77, 071101.	0.6	17
76	Mapping the galactic gravitational potential with peculiar acceleration. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 391, 1308-1314.	1.6	17
77	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2013, 550, A132.	2.1	15
78	Neutrinos and dark energy constraints from future galaxy surveys and CMB lensing information. <i>Physical Review D</i> , 2013, 88, .	1.6	14
79	Measuring CMB polarization with Boomerang. <i>New Astronomy Reviews</i> , 2003, 47, 1057-1065.	5.2	13
80	Copernicanism and the typicality in time. <i>International Journal of Astrobiology</i> , 2020, 19, 101-109.	0.9	12
81	Longevity Is the Key Factor in the Search for Technosignatures. <i>Astronomical Journal</i> , 2021, 161, 222.	1.9	12
82	Determining Foreground Contamination in Cosmic Microwave Background Observations: Diffuse Galactic Emission in the MAXIMAâ€Œ Field. <i>Astrophysical Journal</i> , 2004, 615, 55-62.	1.6	11
83	Comparative analysis of the influence of Sgr A* and nearby active galactic nuclei on the mass loss of known exoplanets. <i>Astronomy and Astrophysics</i> , 2019, 624, A71.	2.1	11
84	The Impact of the Temporal Distribution of Communicating Civilizations on Their Detectability. <i>Astrobiology</i> , 2018, 18, 54-58.	1.5	10
85	The Italian National Project of Astrobiologyâ€œLife in Spaceâ€œ Origin, Presence, Persistence of Life in Space, from Molecules to Extremophiles. <i>Astrobiology</i> , 2020, 20, 580-582.	1.5	10
86	Quantifying the information impact of future searches for exoplanetary biosignatures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 21031-21036.	3.3	9
87	The impact of tidal disruption events on galactic habitability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 3153-3157.	1.6	9
88	On the Primordial Helium Content: Cosmic Microwave Background and Stellar Constraints. <i>Astrophysical Journal</i> , 2002, 568, 463-469.	1.6	9
89	Foreground influence on primordial non-Gaussianity estimates: needlet analysis of WMAP5-year data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, , .	1.6	8
90	Survivability of Anhydrobiotic Cyanobacteria in Salty Ice: Implications for the Habitability of Icy Worlds. <i>Life</i> , 2019, 9, 86.	1.1	8

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91	The Habitability of the Galactic Bulge. <i>Life</i> , 2020, 10, 132.	1.1	8
92	Optimising Boltzmann codes for the PLANCK era. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 011-011.	1.9	7
93	Cosmology and time. <i>EPJ Web of Conferences</i> , 2013, 58, 02004.	0.1	6
94	CMB power spectrum estimation for the Planck Surveyor. <i>Astronomy and Astrophysics</i> , 2002, 395, 417-421.	2.1	6
95	MAXIMA: an experiment to measure temperature anisotropy in the cosmic microwave background. , 1999, , .		5
96	Cosmology from Planck. <i>New Astronomy Reviews</i> , 2007, 51, 281-286.	5.2	5
97	Excitation Properties of Photopigments and Their Possible Dependence on the Host Star. <i>Astrophysical Journal Letters</i> , 2021, 921, L41.	3.0	5
98	The impact of AGN outflows on the surface habitability of terrestrial planets in the Milky Way. <i>Monthly Notices of the Royal Astronomical Society</i> , 2022, 512, 505-516.	1.6	5
99	<i>Planck</i> intermediate results<i> (Corrigendum)</i>. <i>Astronomy and Astrophysics</i> , 2013, 558, C2.	2.1	4
100	Feasibility of Detecting Interstellar Panspermia in Astrophysical Environments. <i>Astronomical Journal</i> , 2021, 162, 23.	1.9	4
101	Quadrant asymmetry in the angular distribution of cosmic microwave background in the Planck satellite data. <i>Astronomy and Astrophysics</i> , 2014, 569, A75.	2.1	3
102	A birth-death-migration model for life in astrophysical environments. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 4365-4371.	1.6	3
103	The MAXIMA and MAXIPOL experiments. <i>AIP Conference Proceedings</i> , 2002, , .	0.3	2
104	Scalar field dark energy and cosmic microwave background. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2003, 124, 68-71.	0.5	2
105	Cosmological parameter estimation from CMB experiments. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	1
106	BOOMERANG returns. <i>New Astronomy Reviews</i> , 2003, 47, 733-740.	5.2	1
107	BOOMERanG results. <i>Advances in Space Research</i> , 2005, 36, 1064-1069.	1.2	1
108	Forecasting isocurvature models with CMB lensing information: Axion and curvaton scenarios. <i>Physical Review D</i> , 2012, 86, .	1.6	1

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109	Astrophysical Cosmology. , 2009, , 203-299.		1
110	MAXIMA: Millimeter-wave anisotropy experiment imaging array. AIP Conference Proceedings, 2001, , .	0.3	0
111	CMB polarization: Scientific case and data analysis issues. AIP Conference Proceedings, 2002, , .	0.3	0
112	What's behind acoustic peaks in the cosmic microwave background anisotropies. Nuclear Physics, Section B, Proceedings Supplements, 2002, 110, 173-178.	0.5	0
113	Maps of the CMB Temperature Anisotropy: from the Time-Ordered Data to the Maximum-Likelihood Solution. Globular Clusters - Guides To Galaxies, 2003, , 414-420.	0.1	0
114	CMB Analysis of Boomerang & Maxima & the Cosmic Parameters $\{\hat{\Omega}_{tot}, \hat{\Omega}_{bh2}, \hat{\Omega}_{cdmh2}, \hat{\Omega}_{\lambda}, ns\}$. Symposium - International Astronomical Union, 2005, 201, 347-357.	0.1	0
115	Maps of the Millimetre Sky from the BOOMERanG Experiment. Symposium - International Astronomical Union, 2005, 216, 35-42.	0.1	0
116	MEASUREMENT OF COSMOLOGICAL PARAMETERS. , 2006, , .		0