

Amedeo Balbi

List of Publications by Year in descending order

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116
papers

9,086
citations

44042

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38368

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120
all docs

120
docs citations

120
times ranked

5124
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of AGN outflows on the surface habitability of terrestrial planets in the Milky Way. Monthly Notices of the Royal Astronomical Society, 2022, 512, 505-516.	1.6	5
2	Longevity Is the Key Factor in the Search for Technosignatures. Astronomical Journal, 2021, 161, 222.	1.9	12
3	Feasibility of Detecting Interstellar Panspermia in Astrophysical Environments. Astronomical Journal, 2021, 162, 23.	1.9	4
4	A birth-death-migration model for life in astrophysical environments. Monthly Notices of the Royal Astronomical Society, 2021, 509, 4365-4371.	1.6	3
5	Excitation Properties of Photopigments and Their Possible Dependence on the Host Star. Astrophysical Journal Letters, 2021, 921, L41.	3.0	5
6	Copernicanism and the typicality in time. International Journal of Astrobiology, 2020, 19, 101-109.	0.9	12
7	The Habitability of the Galactic Bulge. Life, 2020, 10, 132.	1.1	8
8	Quantifying the information impact of future searches for exoplanetary biosignatures. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 21031-21036.	3.3	9
9	The impact of tidal disruption events on galactic habitability. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3153-3157.	1.6	9
10	The Italian National Project of Astrobiologyâ€”Life in Spaceâ€”Origin, Presence, Persistence of Life in Space, from Molecules to Extremophiles. Astrobiology, 2020, 20, 580-582.	1.5	10
11	Comparative analysis of the influence of Sgr A* and nearby active galactic nuclei on the mass loss of known exoplanets. Astronomy and Astrophysics, 2019, 624, A71.	2.1	11
12	Survivability of Anhydrobiotic Cyanobacteria in Salty Ice: Implications for the Habitability of Icy Worlds. Life, 2019, 9, 86.	1.1	8
13	The Impact of the Temporal Distribution of Communicating Civilizations on Their Detectability. Astrobiology, 2018, 18, 54-58.	1.5	10
14	The habitability of the Milky Way during the active phase of its central supermassive black hole. Scientific Reports, 2017, 7, 16626.	1.6	25
15	Quadrant asymmetry in the angular distribution of cosmic microwave background in the Planck satellite data. Astronomy and Astrophysics, 2014, 569, A75.	2.1	3
16	Searching for a dipole modulation in the large-scale structure of the Universe. Monthly Notices of the Royal Astronomical Society, 2014, 441, 2392-2397.	1.6	32
17	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2014, 561, A97.	2.1	80
18	Neutrinos and dark energy constraints from future galaxy surveys and CMB lensing information. Physical Review D, 2013, 88, .	1.6	14

#	ARTICLE	IF	CITATIONS
19	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 557, A52.	2.1	141
20	<i>Planck</i> intermediate results. XII: Diffuse Galactic components in the Gould Belt system. Astronomy and Astrophysics, 2013, 557, A53.	2.1	19
21	<i>Planck</i> intermediate results (Corrigendum). Astronomy and Astrophysics, 2013, 558, C2.	2.1	4
22	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 554, A140.	2.1	101
23	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A128.	2.1	20
24	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A130.	2.1	36
25	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A131.	2.1	276
26	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 554, A139.	2.1	106
27	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A129.	2.1	63
28	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A132.	2.1	15
29	Cosmology and time. EPJ Web of Conferences, 2013, 58, 02004.	0.1	6
30	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A133.	2.1	52
31	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2013, 550, A134.	2.1	94
32	Forecasting isocurvature models with CMB lensing information: Axion and curvaton scenarios. Physical Review D, 2012, 86, .	1.6	1
33	Real-time cosmology. Physics Reports, 2012, 521, 95-134.	10.3	77
34	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2012, 543, A102.	2.1	50
35	<i>Planck</i> early results. XXI. Properties of the interstellar medium in the Galactic plane. Astronomy and Astrophysics, 2011, 536, A21.	2.1	119
36	<i>Planck</i> early results. XVIII. The power spectrum of cosmic infrared background anisotropies. Astronomy and Astrophysics, 2011, 536, A18.	2.1	180

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37	<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
38	<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
39	<i>Planck</i> early results. XII. Cluster Sunyaev-Zeldovich optical scaling relations. <i>Astronomy and Astrophysics</i> , 2011, 536, A12.	2.1	100
40	<i>Planck</i> early results. II. The thermal performance of <i>Planck</i>. <i>Astronomy and Astrophysics</i> , 2011, 536, A2.	2.1	91
41	<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
42	<i>Planck</i> early results. XXV. Thermal dust in nearby molecular clouds. <i>Astronomy and Astrophysics</i> , 2011, 536, A25.	2.1	184
43	<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
44	<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
45	<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
46	<i>Planck</i> early results. VII. The Early Release Compact Source Catalogue. <i>Astronomy and Astrophysics</i> , 2011, 536, A7.	2.1	224
47	<i>Planck</i> early results. XIX. All-sky temperature and dust optical depth from <i>Planck</i> and IRAS. Constraints on the “dark gas” in our Galaxy. <i>Astronomy and Astrophysics</i> , 2011, 536, A19.	2.1	314
48	<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
49	<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
50	<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
51	Planck early results. XIV. ERCSC validation and extreme radio sources. <i>Astronomy and Astrophysics</i> , 2011, 536, A14.	2.1	61
52	<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
53	<i>Planck</i> early results. XXVI. Detection with <i>Planck</i> and confirmation by <i>XMM-Newton</i> of PLCKG266.6+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
54	<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

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55	<i>Planck</i> early results. I. The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2011, 536, A1.	2.1	394
56	<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
57	<i>Planck</i> pre-launch status: The <i>Planck</i>-LFI programme. <i>Astronomy and Astrophysics</i> , 2010, 520, A3.	2.1	81
58	NeedATool: A NEEDLET ANALYSIS TOOL FOR COSMOLOGICAL DATA PROCESSING. <i>Astrophysical Journal</i> , 2010, 723, 1-9.	1.6	26
59	<i>Planck</i> pre-launch status: The <i>Planck</i> mission. <i>Astronomy and Astrophysics</i> , 2010, 520, A1.	2.1	268
60	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
61	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
62	Cosmic parallax as a probe of late time anisotropic expansion. <i>Physical Review D</i> , 2009, 80, .	1.6	24
63	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
64	Optimising Boltzmann codes for the PLANCK era. <i>Journal of Cosmology and Astroparticle Physics</i> , 2009, 2009, 011-011.	1.9	7
65	<i>Astrophysical Cosmology</i> . , 2009, , 203-299.		1
66	Peculiar acceleration. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 660, 81-86.	1.5	18
67	Spherical needlets for cosmic microwave background data analysis. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 383, 539-545.	1.6	135
68	Mapping the galactic gravitational potential with peculiar acceleration. <i>Monthly Notices of the Royal Astronomical Society</i> , 2008, 391, 1308-1314.	1.6	17
69	Affine parametrization of the dark sector: Constraints from WMAP5 and SDSS. <i>Physical Review D</i> , 2008, 78, .	1.6	25
70	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
71	Late universe dynamics with scale-independent linear couplings in the dark sector. <i>Physical Review D</i> , 2008, 78, .	1.6	43
72	Affine equation of state from quintessence and k-essence fields. <i>Classical and Quantum Gravity</i> , 2007, 24, 5413-5425.	1.5	47

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73	Ω_{DM} Observational constraints on unified dark matter with constant speed of sound. Physical Review D, 2007, 76, .	1.6	52
74	Making sky maps from Planck data. Astronomy and Astrophysics, 2007, 467, 761-775.	2.1	45
75	Cosmology from Planck. New Astronomy Reviews, 2007, 51, 281-286.	5.2	5
76	The time evolution of cosmological redshift as a test of dark energy. Monthly Notices of the Royal Astronomical Society, 2007, 382, 1623-1629.	1.6	58
77	Making maps from Planck LFI 30 GHz data. Astronomy and Astrophysics, 2007, 471, 361-380.	2.1	25
78	Comparison of map-making algorithms for CMB experiments. Astronomy and Astrophysics, 2006, 449, 1311-1322.	2.1	30
79	Integrated Sachs-Wolfe effect from the cross correlation of WMAP 3-year and the NRAO VLA sky survey data: New results and constraints on dark energy. Physical Review D, 2006, 74, .	1.6	162
80	MAXIMA: A balloon-borne cosmic microwave background anisotropy experiment. Review of Scientific Instruments, 2006, 77, 071101.	0.6	17
81	MEASUREMENT OF COSMOLOGICAL PARAMETERS. , 2006, , .		0
82	BOOMERanG results. Advances in Space Research, 2005, 36, 1064-1069.	1.2	1
83	CMB Analysis of Boomerang & Maxima & the Cosmic Parameters $\{\Omega_{\text{tot}}, \Omega_{\text{bh}2}, \Omega_{\text{cdmh}2}, \Omega_{\text{b}}, ns\}$. Symposium - International Astronomical Union, 2005, 201, 347-357.	0.1	0
84	Maps of the Millimetre Sky from the BOOMERanG Experiment. Symposium - International Astronomical Union, 2005, 216, 35-42.	0.1	0
85	Unbiased estimation of an angular power spectrum. Journal of Cosmology and Astroparticle Physics, 2005, 2005, 001-001.	1.9	41
86	ROMA: A map-making algorithm for polarised CMB data sets. Astronomy and Astrophysics, 2005, 436, 1159-1165.	2.1	48
87	Cosmological parameters and the WMAP data revisited. Monthly Notices of the Royal Astronomical Society, 2004, 354, 905-912.	1.6	30
88	Determining Foreground Contamination in Cosmic Microwave Background Observations: Diffuse Galactic Emission in the MAXIMA Field. Astrophysical Journal, 2004, 615, 55-62.	1.6	11
89	BOOMERANG returns. New Astronomy Reviews, 2003, 47, 733-740.	5.2	1
90	Measuring CMB polarization with Boomerang. New Astronomy Reviews, 2003, 47, 1057-1065.	5.2	13

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91	Scalar field dark energy and cosmic microwave background. Nuclear Physics, Section B, Proceedings Supplements, 2003, 124, 68-71.	0.5	2
92	Multiple methods for estimating the bispectrum of the cosmic microwave background with application to the MAXIMA data. Monthly Notices of the Royal Astronomical Society, 2003, 341, 623-643.	1.6	46
93	Probing Dark Energy with the Cosmic Microwave Background: Projected Constraints from the Wilkinson Microwave Anisotropy Probe and Planck. Astrophysical Journal, 2003, 588, L5-L8.	1.6	23
94	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
95	Constraints on flat cosmologies with tracking quintessence from cosmic microwave background observations. Physical Review D, 2002, 65, .	1.6	69
96	Estimate of the Cosmological Bispectrum from the MAXIMA-1 Cosmic Microwave Background Map. Physical Review Letters, 2002, 88, 241302.	2.9	58
97	The MAXIMA and MAXIPOL experiments. AIP Conference Proceedings, 2002, , .	0.3	2
98	CMB polarization: Scientific case and data analysis issues. AIP Conference Proceedings, 2002, , .	0.3	0
99	Frequentist estimation of cosmological parameters from the MAXIMA-1 cosmic microwave background anisotropy data. Monthly Notices of the Royal Astronomical Society, 2002, 334, 11-19.	1.6	27
100	What's behind acoustic peaks in the cosmic microwave background anisotropies. Nuclear Physics, Section B, Proceedings Supplements, 2002, 110, 173-178.	0.5	0
101	CMB power spectrum estimation for the Planck Surveyor. Astronomy and Astrophysics, 2002, 395, 417-421.	2.1	6
102	On the Primordial Helium Content: Cosmic Microwave Background and Stellar Constraints. Astrophysical Journal, 2002, 568, 463-469.	1.6	9
103	Cosmology from MAXIMA-1, BOOMERANG, and COBE DMR Cosmic Microwave Background Observations. Physical Review Letters, 2001, 86, 3475-3479.	2.9	433
104	Cosmological parameter estimation from CMB experiments. AIP Conference Proceedings, 2001, , .	0.3	1
105	Asymmetric Beams in Cosmic Microwave Background Anisotropy Experiments. Astrophysical Journal, Supplement Series, 2001, 132, 1-17.	3.0	43
106	Cosmological Implications of the MAXIMA-1 High-Resolution Cosmic Microwave Background Anisotropy Measurement. Astrophysical Journal, 2001, 561, L7-L10.	1.6	226
107	MAXIMA: Millimeter-wave anisotropy experiment imaging array. AIP Conference Proceedings, 2001, , .	0.3	0
108	A High Spatial Resolution Analysis of the MAXIMA-1 Cosmic Microwave Background Anisotropy Data. Astrophysical Journal, 2001, 561, L1-L5.	1.6	317

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109	Making maps of the cosmic microwave background: The MAXIMA example. Physical Review D, 2001, 65, .	1.6	59
110	Tests for Gaussianity of the MAXIMA-1 Cosmic Microwave Background Map. Physical Review Letters, 2001, 87, 251303.	2.9	77
111	Secondary CMB anisotropies from the kinetic SZ effect. Astronomy and Astrophysics, 2001, 367, 1-17.	2.1	36
112	Implications for Quintessence Models from MAXIMA-1 and BOOMERANG-98. Astrophysical Journal, 2001, 547, L89-L92.	1.6	36
113	Constraints on Cosmological Parameters from MAXIMA-1. Astrophysical Journal, 2000, 545, L1-L4.	1.6	384
114	MAXIMA-1: A Measurement of the Cosmic Microwave Background Anisotropy on Angular Scales of $10[\text{arcmin}] \hat{=} 5^\circ$. Astrophysical Journal, 2000, 545, L5-L9.	1.6	1,058
115	MAXIMA: an experiment to measure temperature anisotropy in the cosmic microwave background. , 1999, , .		5
116	Cosmic Microwave Background Anisotropy at Degree Angular Scales and the Thermal History of the Universe. Astrophysical Journal, 1997, 480, 1-5.	1.6	26