

# Laura Bonavera

## List of Publications by Year in descending order

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128  
papers

24,860  
citations

19657

61  
h-index

16183

124  
g-index

129  
all docs

129  
docs citations

129  
times ranked

17313  
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A13.	5.1	8,344
2	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A20.	5.1	1,233
3	<i>Planck</i> 2013 results. I. Overview of products and scientific results. Astronomy and Astrophysics, 2014, 571, A1.	5.1	948
4	Joint Analysis of BICEP2/<i>Keck Array</i> and <i>Planck</i> Data. Physical Review Letters, 2015, 114, 101301.	7.8	819
5	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A1.	5.1	738
6	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A11.	5.1	613
7	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A14.	5.1	568
8	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A27.	5.1	535
9	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A24.	5.1	525
10	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A17.	5.1	440
11	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A10.	5.1	384
12	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 596, A108.	5.1	375
13	<i>Planck</i> 2013 results. XXIII. Isotropy and statistics of the CMB. Astronomy and Astrophysics, 2014, 571, A23.	5.1	367
14	<i>Planck</i> 2013 results. XV. CMB power spectra and likelihood. Astronomy and Astrophysics, 2014, 571, A15.	5.1	364
15	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A15.	5.1	360
16	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 596, A107.	5.1	359
17	<i>Planck</i> 2013 results. XXIV. Constraints on primordial non-Gaussianity. Astronomy and Astrophysics, 2014, 571, A24.	5.1	350
18	<i>Planck</i> 2015 results. Astronomy and Astrophysics, 2016, 594, A16.	5.1	338

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19	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A22.	5.1	274
20	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A19.	5.1	273
21	<i>Planck</i> 2013 results. XVII. Gravitational lensing by large-scale structure. <i>Astronomy and Astrophysics</i> , 2014, 571, A17.	5.1	272
22	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 586, A138.	5.1	270
23	<i>Planck</i> early results. VII. The Early Release Compact Source Catalogue. <i>Astronomy and Astrophysics</i> , 2011, 536, A7.	5.1	224
24	<i>Planck</i> 2013 results. XXV. Searches for cosmic strings and other topological defects. <i>Astronomy and Astrophysics</i> , 2014, 571, A25.	5.1	223
25	<i>Planck</i> 2013 results. XII. Diffuse component separation. <i>Astronomy and Astrophysics</i> , 2014, 571, A12.	5.1	216
26	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A8.	5.1	209
27	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 596, A109.	5.1	185
28	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A9.	5.1	182
29	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A26.	5.1	182
30	<i>Planck</i> early results. XVIII. The power spectrum of cosmic infrared background anisotropies. <i>Astronomy and Astrophysics</i> , 2011, 536, A18.	5.1	180
31	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 586, A133.	5.1	173
32	Simultaneous <i>Planck</i> , <i>Swift</i> , and <i>Fermi</i> observations of X-ray and $\gamma$ -ray selected blazars. <i>Astronomy and Astrophysics</i> , 2012, 541, A160.	5.1	166
33	<i>Planck</i> 2013 results. XXVIII. The <i>Planck</i> Catalogue of Compact Sources. <i>Astronomy and Astrophysics</i> , 2014, 571, A28.	5.1	162
34	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A25.	5.1	153
35	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A28.	5.1	134
36	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2017, 607, A95.	5.1	131

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37	<i>Planck</i> 2013 results. XIX. The integrated Sachs-Wolfe effect. <i>Astronomy and Astrophysics</i> , 2014, 571, A19.	5.1	126
38	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A12.	5.1	117
39	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A21.	5.1	114
40	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 586, A132.	5.1	109
41	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 586, A135.	5.1	109
42	<i>Planck</i> early results. III. First assessment of the Low Frequency Instrument in-flight performance. <i>Astronomy and Astrophysics</i> , 2011, 536, A3.	5.1	108
43	<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.	5.1	103
44	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A7.	5.1	94
45	<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.	5.1	93
46	<i>Planck</i> 2013 results. XXVI. Background geometry and topology of the Universe. <i>Astronomy and Astrophysics</i> , 2014, 571, A26.	5.1	91
47	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 586, A140.	5.1	89
48	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A23.	5.1	89
49	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 596, A103.	5.1	89
50	Dust and star formation properties of a complete sample of local galaxies drawn from the Planck Early Release Compact Source Catalogue. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 433, 695-711.	4.4	81
51	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A2.	5.1	79
52	<i>Planck</i> early results. V. The Low Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2011, 536, A5.	5.1	77
53	THE OPTICALLY UNBIASED GRB HOST (TOUGH) SURVEY. VI. RADIO OBSERVATIONS AT $z < 1$ AND CONSISTENCY WITH TYPICAL STAR-FORMING GALAXIES. <i>Astrophysical Journal</i> , 2012, 755, 85.	4.5	74
54	<i>Planck</i> 2013 results. II. Low Frequency Instrument data processing. <i>Astronomy and Astrophysics</i> , 2014, 571, A2.	5.1	74

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55	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2015, 582, A30.	5.1	72
56	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 586, A136.	5.1	72
57	<i>Planck</i> 2018 results. <i>Astronomy and Astrophysics</i> , 2020, 641, A2.	5.1	72
58	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A18.	5.1	69
59	<i>Planck</i> 2013 results. V. LFI calibration. <i>Astronomy and Astrophysics</i> , 2014, 571, A5.	5.1	67
60	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 596, A110.	5.1	64
61	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A6.	5.1	62
62	Planck early results. XIV. ERCSC validation and extreme radio sources. <i>Astronomy and Astrophysics</i> , 2011, 536, A14.	5.1	61
63	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2015, 582, A31.	5.1	59
64	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A4.	5.1	56
65	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 586, A141.	5.1	55
66	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A5.	5.1	55
67	<i>Planck</i> 2013 results. III. LFI systematic uncertainties. <i>Astronomy and Astrophysics</i> , 2014, 571, A3.	5.1	54
68	<i>Planck</i> 2015 results. <i>Astronomy and Astrophysics</i> , 2016, 594, A3.	5.1	53
69	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2012, 543, A102.	5.1	50
70	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2016, 596, A105.	5.1	47
71	<i>Planck</i> intermediate results. XXVI. Optical identification and redshifts of <i>Planck</i> clusters with the RTT150 telescope. <i>Astronomy and Astrophysics</i> , 2015, 582, A29.	5.1	46
72	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2017, 599, A51.	5.1	46

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73	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 596, A100.	5.1	44
74	The ASKAP/EMU Source Finding Data Challenge. Publications of the Astronomical Society of Australia, 2015, 32, .	3.4	39
75	Supernova Model Discrimination with Hyper-Kamiokande. Astrophysical Journal, 2021, 916, 15.	4.5	37
76	The Planck-ATCA Co-eval Observations project: the bright sample. Monthly Notices of the Royal Astronomical Society, 2011, 415, 1597-1610.	4.4	34
77	The local luminosity function of star-forming galaxies derived from the Planck Early Release Compact Source Catalogue. Monthly Notices of the Royal Astronomical Society, 2013, 429, 1309-1323.	4.4	33
78	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2015, 582, A28.	5.1	33
79	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 586, A139.	5.1	32
80	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 586, A137.	5.1	27
81	<i>Herschel</i>-ATLAS:<i>Planck</i> sources in the phase 1 fields. Astronomy and Astrophysics, 2013, 549, A31.	5.1	26
82	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 596, A102.	5.1	25
83	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2016, 596, A101.	5.1	24
84	Statistics of the fractional polarization of compact radio sources in Planck maps. Monthly Notices of the Royal Astronomical Society, 2017, 469, 2401-2411.	4.4	24
85	<i>Planck</i> intermediate results. Astronomy and Astrophysics, 2017, 607, A122.	5.1	24
86	Planck intermediate results. Astronomy and Astrophysics, 2016, 596, A106.	5.1	23
87	Forecasting the Contribution of Polarized Extragalactic Radio Sources in CMB Observations. Astrophysical Journal, 2018, 858, 85.	4.5	23
88	<i>Herschel</i>-ATLAS: Blazars in the science demonstration phase field. Astronomy and Astrophysics, 2010, 518, L38.	5.1	22
89	H-ATLAS/GAMA: magnification bias tomography. Astrophysical constraints above $\sim 1/41$ arcmin. Journal of Cosmology and Astroparticle Physics, 2017, 2017, 024-024.	5.4	20
90	Exploring cosmic origins with CORE: Extragalactic sources in cosmic microwave background maps. Journal of Cosmology and Astroparticle Physics, 2018, 2018, 020-020.	5.4	20

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91	<i>Planck</i> intermediate results. <i>Astronomy and Astrophysics</i> , 2018, 619, A94.	5.1	18
92	Mining the Herschel-Astrophysical Terahertz Large Area Survey: submillimetre-selected blazars in equatorial fields. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 430, 1566-1577.	4.4	17
93	The <i>Planck</i> ATCA Co-eval Observations project: analysis of radio source properties between 5 and 217 GHz. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 3249-3262.	4.4	17
94	ALMA photometry of extragalactic radio sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 485, 1188-1195.	4.4	17
95	Multifrequency polarimetry of a complete sample of PACO radio sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 465, 4085-4098.	4.4	16
96	Experience with Artificial Neural Networks Applied in Multi-object Adaptive Optics. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 108012.	3.1	16
97	Extragalactic sources in Cosmic Microwave Background maps. <i>Journal of Cosmology and Astroparticle Physics</i> , 2015, 2015, 018-018.	5.4	13
98	Statistics of the fractional polarization of extragalactic dusty sources in <i>Planck</i> HFI maps. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 628-635.	4.4	13
99	Characterization of polarimetric and total intensity behaviour of a complete sample of PACO radio sources in the radio bands. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 1306-1322.	4.4	13
100	The <i>Planck</i> -ATCA Co-eval Observations project: the spectrally selected sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 428, 1845-1854.	4.4	12
101	SHALOS: Statistical <i>Herschel</i> -ATLAS lensed objects selection. <i>Astronomy and Astrophysics</i> , 2019, 627, A31.	5.1	12
102	Evolution and forecasting of PM10 concentration at the Port of Gijon (Spain). <i>Scientific Reports</i> , 2020, 10, 11716.	3.3	11
103	QSOs signposting cluster size halos as gravitational lenses: halo mass, projected mass density profile and concentration at $z \sim 0.7$ . <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 021-021.	5.4	10
104	Planetary candidates transiting cool dwarf stars from campaigns 12 to 15 of K2. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 5416-5441.	4.4	10
105	The Simultaneous Medicina- <i>Planck</i> Experiment: data acquisition, reduction and first results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 417, 1123-1139.	4.4	9
106	Overdensity of SMGs in fields containing $z \sim 0.3$ galaxies: magnification bias and the implications for studies of galaxy evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 4635-4649.	4.4	9
107	Cosmological constraints on the magnification bias on sub-millimetre galaxies after large-scale bias corrections. <i>Astronomy and Astrophysics</i> , 2021, 646, A152.	5.1	9
108	A direct and robust method to observationally constrain the halo mass function via the submillimeter magnification bias: Proof of concept. <i>Astronomy and Astrophysics</i> , 2021, 645, A126.	5.1	9

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109	A methodology for detecting relevant single nucleotide polymorphism in prostate cancer with multivariate adaptive regression splines and backpropagation artificial neural networks. <i>Neural Computing and Applications</i> , 2020, 32, 1231-1238.	5.6	7
110	Cosmology with the submillimetre galaxies magnification bias: Proof of concept. <i>Astronomy and Astrophysics</i> , 2020, 639, A128.	5.1	7
111	ALMA Band 3 polarimetric follow-up of a complete sample of faint PACO sources. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 489, 470-486.	4.4	6
112	Effective extraction of high purity sulfur from industrial residue with low sulfur content. <i>Journal of Materials Research and Technology</i> , 2020, 9, 8117-8124.	5.8	6
113	The K2-OjOS Project: New and revisited planets and candidates in K2 campaigns 5, 16, & 18. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 509, 1075-1095.	4.4	6
114	Cosmology with the submillimetre galaxies magnification bias. <i>Astronomy and Astrophysics</i> , 2021, 656, A99.	5.1	6
115	The Planck-ATCA Coeval Observations project: the faint sample. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, , no-no.	4.4	5
116	On the recovery of ISW fluctuations using large-scale structure tracers and CMB temperature and polarization anisotropies. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 459, 657-672.	4.4	5
117	Extragalactic Astrophysics With Next-Generation CMB Experiments. <i>Frontiers in Astronomy and Space Sciences</i> , 2019, 6, .	2.8	5
118	MITO: A creative approach for Sunyaev-Zeldovich effect observations from ground. <i>New Astronomy Reviews</i> , 2007, 51, 368-373.	12.8	3
119	Can CMB Surveys Help the AGN Community?. <i>Galaxies</i> , 2017, 5, 47.	3.0	3
120	A transiting super-Earth close to the inner edge of the habitable zone of an M0 dwarf star. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	3
121	Point source detection with fully convolutional networks. <i>Astronomy and Astrophysics</i> , 2021, 648, A50.	5.1	3
122	Compensating Atmospheric Turbulence with Convolutional Neural Networks for Defocused Pupil Image Wave-Front Sensors. <i>Lecture Notes in Computer Science</i> , 2018, , 411-421.	1.3	2
123	Galaxy cluster mass density profile derived using the submillimetre galaxies magnification bias. <i>Astronomy and Astrophysics</i> , 2022, 658, A19.	5.1	2
124	Multi-frequency point source detection with fully convolutional networks: Performance in realistic microwave sky simulations. <i>Astronomy and Astrophysics</i> , 0, , .	5.1	2
125	Tomography-based observational measurements of the halo mass function via the submillimeter magnification bias. <i>Astronomy and Astrophysics</i> , 2022, 662, A44.	5.1	2
126	Multifrequency filter search for high redshift sources and lensing systems in Herschel-ATLAS. <i>Astronomy and Astrophysics</i> , 2019, 622, A106.	5.1	1



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127	Early Fully-Convolutional Approach to Wavefront Imaging on Solar Adaptive Optics Simulations. Lecture Notes in Computer Science, 2020, , 674-685.	1.3	0
128	Cosmic backgrounds from the radio to the far-infrared: recent results and perspectives from cosmological and astrophysical surveys. International Journal of Modern Physics D, 0, , .	2.1	0