

# Beatriz Barbuy

## List of Publications by Year in descending order

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96  
papers

7,309  
citations

87888

38  
h-index

54911

84  
g-index

97  
all docs

97  
docs citations

97  
times ranked

4207  
citing authors

#	ARTICLE	IF	CITATIONS
1	First stars V - Abundance patterns from C to Zn and supernova yields in the early Galaxy. <i>Astronomy and Astrophysics</i> , 2004, 416, 1117-1138.	5.1	870
2	VISTA Variables in the Via Lactea (VVV): The public ESO near-IR variability survey of the Milky Way. <i>New Astronomy</i> , 2010, 15, 433-443.	1.8	698
3	THE HUBBLE SPACE TELESCOPE UV LEGACY SURVEY OF GALACTIC GLOBULAR CLUSTERS. I. OVERVIEW OF THE PROJECT AND DETECTION OF MULTIPLE STELLAR POPULATIONS. <i>Astronomical Journal</i> , 2015, 149, 91.	4.7	395
4	First stars. I. The extreme-element rich, iron-poor halo giant CS 31082-001. <i>Astronomy and Astrophysics</i> , 2002, 387, 560-579.	5.1	392
5	The Hubble Space Telescope UV Legacy Survey of Galactic globular clusters - IX. The Atlas of multiple stellar populations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 3636-3656.	4.4	328
6	VV DR1: The first data release of the Milky Way bulge and southern plane from the near-infrared ESO public survey VISTA variables in the Via Lactea. <i>Astronomy and Astrophysics</i> , 2012, 537, A107.	5.1	312
7	A library of high resolution synthetic stellar spectra from 300Å to 1.8µm with solar and $\alpha$ -enhanced composition. <i>Astronomy and Astrophysics</i> , 2005, 443, 735-746.	5.1	305
8	The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters - V. Constraints on formation scenarios. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 454, 4197-4207.	4.4	253
9	Near-coeval formation of the Galactic bulge and halo inferred from globular cluster ages. <i>Nature</i> , 1995, 377, 701-704.	27.8	246
10	First stars. <i>Astronomy and Astrophysics</i> , 2007, 476, 935-950.	5.1	242
11	First stars XII. Abundances in extremely metal-poor turnoff stars, and comparison with the giants. <i>Astronomy and Astrophysics</i> , 2009, 501, 519-530.	5.1	170
12	Oxygen, sodium, magnesium, and aluminium as tracers of the galactic bulge formation. <i>Astronomy and Astrophysics</i> , 2007, 465, 799-814.	5.1	160
13	Chemodynamical History of the Galactic Bulge. <i>Annual Review of Astronomy and Astrophysics</i> , 2018, 56, 223-276.	24.3	152
14	The Hubble Space Telescope UV legacy survey of galactic globular clusters - XVI. The helium abundance of multiple populations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 481, 5098-5122.	4.4	146
15	Both accurate and precise $\alpha$ -values for Fe II lines. <i>Astronomy and Astrophysics</i> , 2009, 497, 611-617.	5.1	138
16	Globular cluster system and Milky Way properties revisited. <i>Astronomy and Astrophysics</i> , 2006, 450, 105-115.	5.1	134
17	From the bulge to the outer disc: StarHorse stellar parameters, distances, and extinctions for stars in APOGEE DR16 and other spectroscopic surveys. <i>Astronomy and Astrophysics</i> , 2020, 638, A76.	5.1	116
18	Imprints of fast-rotating massive stars in the Galactic Bulge. <i>Nature</i> , 2011, 472, 454-457.	27.8	108

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19	Oscillator Strengths and Damping Constants for Atomic Lines in the J and H Bands. <i>Astrophysical Journal, Supplement Series</i> , 1999, 124, 527-546.	7.7	93
20	First stars. <i>Astronomy and Astrophysics</i> , 2013, 550, A122.	5.1	70
21	Homogeneous metallicities and radial velocities for Galactic globular clusters. <i>Astronomy and Astrophysics</i> , 2012, 540, A27.	5.1	68
22	Globular Clusters in the Galactic Bulge. <i>Publications of the Astronomical Society of Australia</i> , 2016, 33, .	3.4	65
23	High-resolution abundance analysis of very metal-poor r-I stars. <i>Astronomy and Astrophysics</i> , 2014, 565, A93.	5.1	64
24	A grid of synthetic spectra and indices Fe5270, Fe5335, Mgb and $Mg_{\lambda 7890}$ as a function of stellar parameters and $[\alpha/Fe]$ . <i>Astronomy and Astrophysics</i> , 2003, 404, 661-668.	5.1	63
25	Distances of the bulge globular clusters Terzan 5, Liller 1, UKS 1, and Terzan 4 based on HST NICMOS photometry. <i>Astronomy and Astrophysics</i> , 2007, 470, 1043-1049.	5.1	62
26	FORS2/VLT survey of Milky Way globular clusters. <i>Astronomy and Astrophysics</i> , 2016, 590, A9.	5.1	62
27	The FeH Wing-Ford Band in Spectra of M Stars. <i>Astrophysical Journal</i> , 1997, 484, 499-510.	4.5	61
28	Discovery of VVCL001. <i>Astronomy and Astrophysics</i> , 2011, 527, A81.	5.1	60
29	Keck NIRSPEC Infrared OH Lines: Oxygen Abundances in Metal-poor Stars down to $[Fe/H] = -2.9$ . <i>Astrophysical Journal</i> , 2002, 575, 474-483.	4.5	59
30	Gemini-Phoenix infrared high-resolution abundance analysis of five giants in the bulge globular cluster NGC 6553. <i>Astronomy and Astrophysics</i> , 2003, 411, 417-426.	5.1	55
31	Oxygen Abundances in Metal-poor Stars ( $-2.2 < [Fe/H] < -1.2$ ) from Infrared OH Lines. <i>Astrophysical Journal</i> , 2001, 556, 858-871.	4.5	51
32	Proper motions and kinematics of selected bulge globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 3270-3288.	4.4	48
33	High-resolution abundance analysis of red giants in the globular cluster NGC 6522. <i>Astronomy and Astrophysics</i> , 2014, 570, A76.	5.1	48
34	Ages of the Bulge Globular Clusters NGC 6522 and NGC 6626 (M28) from HST Proper-motion-cleaned Color-Magnitude Diagrams*. <i>Astrophysical Journal</i> , 2018, 853, 15.	4.5	45
35	VLT-UVES analysis of 5 giants in 47 Tucanae. <i>Astronomy and Astrophysics</i> , 2005, 435, 657-667.	5.1	45
36	VLT-UVES analysis of two giants in the bulge metal-poor globular cluster HP-1. <i>Astronomy and Astrophysics</i> , 2006, 449, 349-358.	5.1	42

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37	NGC 6558: A Blue Horizontal Branch Moderately Metal-Poor Globular Cluster in the Bulge. <i>Astronomical Journal</i> , 2007, 134, 1613-1625.	4.7	42
38	The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters â€“ XII. The RGB bumps of multiple stellar populations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4088-4103.	4.4	40
39	First stars. <i>Astronomy and Astrophysics</i> , 2011, 534, A60.	5.1	36
40	A deep view of a fossil relic in the Galactic bulge: the Globular Cluster HPâ€™1. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 5530-5550.	4.4	34
41	Abundance patterns of the light neutron-capture elements in very and extremely metal-poor stars. <i>Astronomy and Astrophysics</i> , 2018, 611, A30.	5.1	31
42	An Updated Small Magellanic Cloud and Magellanic Bridge Catalog of Star Clusters, Associations, and Related Objects. <i>Astronomical Journal</i> , 2020, 159, 82.	4.7	31
43	High-resolution abundance analysis of red giants in the metal-poor bulge globular cluster HP 1. <i>Astronomy and Astrophysics</i> , 2016, 591, A53.	5.1	30
44	The Temperature Scale of Metalâ€™rich M Giants Based on TiO Bands: Population Synthesis in the Nearâ€™infrared. <i>Astrophysical Journal</i> , 1999, 510, 934-943.	4.5	30
45	SMC west halo: a slice of the galaxy that is being tidally stripped?. <i>Astronomy and Astrophysics</i> , 2016, 591, A11.	5.1	29
46	HP 1: a blue horizontal branch globular cluster in the bulge. <i>Monthly Notices of the Royal Astronomical Society</i> , 1997, 284, 692-698.	4.4	28
47	Globular clusters in the inner Galaxy classified from dynamical orbital criteria. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	26
48	Homogeneous metallicities and radial velocities for Galactic globular clusters. <i>Astronomy and Astrophysics</i> , 2018, 619, A13.	5.1	25
49	Self-consistent Analysis of Stellar Clusters: An Application to HST Data of the Halo Globular Cluster NGC 6752. <i>Astrophysical Journal</i> , 2020, 890, 38.	4.5	25
50	VV CL001: Likely the Most Metal-poor Surviving Globular Cluster in the Inner Galaxy. <i>Astrophysical Journal Letters</i> , 2021, 908, L42.	8.3	25
51	Self-consistent physical parameters for five intermediate-age SMC stellar clusters from CMD modelling. <i>Astronomy and Astrophysics</i> , 2014, 561, A106.	5.1	24
52	FORS2/VLT survey of Milky Way globular clusters. <i>Astronomy and Astrophysics</i> , 2015, 573, A13.	5.1	24
53	High-resolution abundance analysis of HD 140283. <i>Astronomy and Astrophysics</i> , 2015, 584, A86.	5.1	24
54	[ITAL]VI[/ITAL] Photometry of the Postâ€™Core-Collapse Globular Cluster NGC 6558 and the Adjacent Bulge Field Population. <i>Astronomical Journal</i> , 1998, 116, 1295-1300.	4.7	23

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55	Iron-peak elements Sc, V, Mn, Cu, and Zn in Galactic bulge globular clusters. <i>Astronomy and Astrophysics</i> , 2018, 616, A18.	5.1	23
56	The VISCACHA survey – I. Overview and first results. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 5702-5722.	4.4	22
57	The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. XX. Ages of Single and Multiple Stellar Populations in Seven Bulge Globular Clusters. <i>Astrophysical Journal</i> , 2020, 891, 37.	4.5	22
58	APOGEE spectroscopic evidence for chemical anomalies in dwarf galaxies: The case of M 54 and Sagittarius. <i>Astronomy and Astrophysics</i> , 2021, 648, A70.	5.1	22
59	The enigmatic globular cluster UKS 1 obscured by the bulge: <i>i&gt;H&lt;/i&gt;-band discovery of nitrogen-enhanced stars. <i>Astronomy and Astrophysics</i>, 2020, 643, A145.</i>	5.1	22
60	AL 3 (BH 261): A New Globular Cluster in the Galaxy. <i>Astrophysical Journal</i> , 2006, 646, L115-L118.	4.5	21
61	High-resolution abundance analysis of four red giants in the globular cluster NGC 6558. <i>Astronomy and Astrophysics</i> , 2018, 619, A178.	5.1	21
62	Oxygen and zinc abundances in 417 Galactic bulge red giants. <i>Astronomy and Astrophysics</i> , 2018, 614, A149.	5.1	21
63	Orbits of Selected Globular Clusters in the Galactic Bulge. <i>Publications of the Astronomical Society of Australia</i> , 2018, 35, .	3.4	21
64	APOGEE discovery of a chemically atypical star disrupted from NGC 6723 and captured by the Milky Way bulge. <i>Astronomy and Astrophysics</i> , 2021, 647, A64.	5.1	20
65	Discovery of a Large Population of Nitrogen-enhanced Stars in the Magellanic Clouds. <i>Astrophysical Journal Letters</i> , 2020, 903, L17.	8.3	20
66	Trans-iron Ge, As, Se, and heavier elements in the dwarf metal-poor stars HD 19445, HD 84937, HD 94028, HD 140283, and HD 160617. <i>Astronomy and Astrophysics</i> , 2020, 638, A64.	5.1	18
67	VVX- <i>Gaia</i> discovery of a low luminosity globular cluster in the Milky Way disk. <i>Astronomy and Astrophysics</i> , 2020, 642, L19.	5.1	18
68	Bridge over troubled gas: clusters and associations under the SMC and LMC tidal stresses. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 3191-3203.	4.4	17
69	Looking for imprints of the first stellar generations in metal-poor bulge field stars. <i>Astronomy and Astrophysics</i> , 2016, 593, A79.	5.1	17
70	Another relic bulge globular cluster: ESO 456-SC38 (Djorgovski 2). <i>Astronomy and Astrophysics</i> , 2019, 627, A145.	5.1	16
71	CAPOS: The bulge Cluster APOgee Survey. <i>Astronomy and Astrophysics</i> , 2021, 652, A157.	5.1	16
72	Abundances of the light elements from UV (HST) and red (ESO) spectra in the very old star HD 84937. <i>Astronomy and Astrophysics</i> , 2017, 600, A26.	5.1	15

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73	Calculation of molecular line intensity in stellar atmospheres. Publications of the Astronomical Society of Australia, 2018, 35, .	3.4	15
74	The VISCACHA survey. Astronomy and Astrophysics, 2021, 647, L9.	5.1	15
75	CAPOS: The bulge Cluster APOgee Survey. Astronomy and Astrophysics, 2021, 652, A158.	5.1	13
76	SOARBV photometry of the metal-poor bulge globular cluster NGC 6642. Astronomy and Astrophysics, 2006, 449, 1019-1024.	5.1	13
77	The VISCACHA survey – IV. The SMC West Halo in 8D. Monthly Notices of the Royal Astronomical Society, 2022, 512, 4334-4351.	4.4	13
78	Galactic Archaeological Excavations (GALILEO). Astronomy and Astrophysics, 2022, 663, A126.	5.1	13
79	Colour-magnitude diagrams of the post-core collapse globular clusters NGC 6256 and NGC 6717 (Palomar 9). Astronomy and Astrophysics, 1999, 136, 237-243.	2.1	12
80	V, I photometry of the bulge metal-rich globular clusters NGC 6380 and Terzan 12. Astronomy and Astrophysics, 1998, 127, 471-477.	2.1	11
81	APOGEE-2S Discovery of Light- and Heavy-element Abundance Correlations in the Bulge Globular Cluster NGC 6380. Astrophysical Journal Letters, 2021, 918, L9.	8.3	9
82	Photo-chemo-dynamical analysis and the origin of the bulge globular cluster, Palomar 6. Astronomy and Astrophysics, 0, , .	5.1	9
83	CAPOS: The bulge Cluster APOgee Survey. Astronomy and Astrophysics, 2022, 658, A116.	5.1	8
84	LIVES analysis of red giants in the bulge globular cluster NGC 6522. Astronomy and Astrophysics, 2021, 654, A29.	5.1	7
85	APOGEE-2 Discovery of a Large Population of Relatively High-metallicity Globular Cluster Debris. Astrophysical Journal Letters, 2021, 918, L37.	8.3	7
86	Gemini/Phoenix <i>H</i> -band analysis of the globular cluster AL 3. Astronomy and Astrophysics, 2021, 648, A16.	5.1	6
87	FSR 1776: A new globular cluster in the Galactic bulge?. Astronomy and Astrophysics, 2022, 657, A67.	5.1	5
88	Crisis in Brazil. Science, 2018, 361, 1293-1293.	12.6	4
89	Cobalt and copper abundances in 56 Galactic bulge red giants. Astronomy and Astrophysics, 2020, 640, A89.	5.1	4
90	Be, V, and Cu in the halo star CS 31082-001 from near-UV spectroscopy. Monthly Notices of the Royal Astronomical Society, 2022, 510, 5362-5375.	4.4	4

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91	Abundances from integrated spectra of 47 Tucanae (NGC 104). Monthly Notices of the Royal Astronomical Society, 2020, 498, 5834-5854.	4.4	3
92	Precise distances from OGLE-IV member RR Lyrae stars in six bulge globular clusters. Astronomy and Astrophysics, 0, , .	5.1	3
93	APOGEE-2S Mg-Al anti-correlation of the metal-poor globular cluster NGC 2298. Astronomy and Astrophysics, 2022, 662, A47.	5.1	3
94	Symposium summary: stellar populations in bulges. Proceedings of the International Astronomical Union, 2007, 3, 459-462.	0.0	2
95	Simulated observations of heavy elements with CUBES. Experimental Astronomy, 0, , 1.	3.7	2
96	Integrated Spectra of Milky Way Globular Clusters. Astrophysical Journal, 2019, 885, 28.	4.5	1