

Lista de Publicações

(a) Artigos em revistas internacionais com arbitragem

1. "Analysis of the subgiant halo star HD 76932", B. Barbuy: 1978, *Astronomy & Astrophysics* 67, 339-344
2. "Carbon-to-iron ratio in extreme population II stars", B. Barbuy: 1981, *Astronomy & Astrophysics* 101, 365-368
3. "Azote dans les etoiles du halo", B. Barbuy: 1981, *Annales Physique France* 6, 121-126
4. "Nitrogen and oxygen as indicators of primordial enrichment", B. Barbuy: 1983, *Astronomy & Astrophysics* 123, 1-6
5. "Analyses of three field halo stars and the chemical evolution of the Galaxy", B. Barbuy, F. Spite, M. Spite: 1985, *Astronomy & Astrophysics* 144, 343-354
6. "Magnesium isotopes in moderately metal-poor stars", B. Barbuy: 1985, *Astronomy & Astrophysics* 151, 189-197
7. "Magnesium isotopes in super-metal-rich stars", B. Barbuy: 1987, *Astronomy & Astrophysics* 172, 251-256
8. "Magnesium isotopes in metal-poor and metal-rich stars" B. Barbuy, F. Spite, M. Spite: 1987, *Astronomy & Astrophysics* 178, 199-202
9. "Carbon and nitrogen abundances in metal-poor dwarfs of the solar neighbourhood", D. Carbon, B. Barbuy, R. Kraft, E. Friel, N. Suntzeff: 1987, *Publications Astron. Soc. Pacific* 99, 335-368
10. "Oxygen in 20 halo giants", B. Barbuy: 1988, *Astronomy & Astrophysics* 191, 121-127
11. "Oxygen in old and thick disk stars", B. Barbuy, M. Erdelyi-Mendes: 1989, *Astronomy & Astrophysics* 214, 239-248
12. "A synthetic Mg index", B. Barbuy: 1989, *Astrophysics & Space Science* 157, 111-116
13. "Chemical evolution of the Magellanic Clouds. III. Oxygen and carbon abundances in a few F supergiants of the Small Cloud", M. Spite, B. Barbuy, F. Spite: 1989, *Astronomy & Astrophysics* 222, 35-40
14. "Oscillator strengths and damping constants from the solar spectrum at 830-870 nm", M. Erdelyi-Mendes, B. Barbuy: 1989, *Astronomy & Astrophysics Supplement Series* 80, 229-237

15. "Chemical enrichment by tidally disrupted stars near a black hole in the Galactic center", J.-P. Luminet, B. Barbuy: 1990, *Astronomical Journal* 99, 838-842
16. "High-metallicity effects in BVRI colour-magnitude diagrams: the globular cluster NGC 6553", S. Ortolani, B. Barbuy, E. Bica: 1990, *Astronomy & Astrophysics* 236, 362-370
17. "Synthetic CaII infrared triplet lines as a function of stellar parameters", M. Erdelyi-Mendes, B. Barbuy: 1991, *Astronomy & Astrophysics* 241, 176-182
18. "A grid of synthetic spectra for the determination of effective temperature, gravity and metallicity of F, G, K stars . I. Description of the method", R. Cayrel, M.-N. Perrin, B. Barbuy, R. Buser: 1991, *Astronomy & Astrophysics* 247, 108-121
19. "A grid of synthetic spectra for the determination of effective temperature, gravity and metallicity of F, G, K stars. II. Application to 41 stellar spectra taken in the Basel field SA 141", R. Cayrel, M.-N. Perrin, R. Buser, B. Barbuy, M.-F. Coupry: 1991, *Astronomy & Astrophysics* 247, 122-129
20. "Carbon and nitrogen abundances in three supergiants of the young SMC globular cluster: NGC 330", B. Barbuy, M. Spite, F. Spite, A. Milone: 1991, *Astronomy & Astrophysics* 247, 15-19
21. "Metal-rich globular clusters: Giant branch morphology as a metallicity criterion", S. Ortolani, B. Barbuy, E. Bica: 1991, *Astronomy & Astrophysics Letters* 249, L31-L33
22. "Abundances in southern type I planetary nebulae", J. A. de Freitas Pacheco, W. J. Maciel, R. D. D. Costa, B. Barbuy: 1991, *Astronomy & Astrophysics* 250, 159-164
23. "Metal-rich giant branches of bulge clusters: application to color-magnitude diagrams of M31 and M32", E. Bica, B. Barbuy, S. Ortolani: 1991, *The Astrophysical Journal Letters*, 382, L15-L17
24. "Grain coagulation in contracting protostellar clouds", S. C. F. Rossi, P. Benevides-Soares, B. Barbuy: 1991, *Astronomy & Astrophysics* 251, 587-596
25. "CCD photometry of NGC 6528: a high metallicity inner bulge globular cluster", S. Ortolani, E. Bica, B. Barbuy: 1992, *Astronomy & Astrophysics Supplement Series*, 92, 441-448
26. "Synthetic Mg₁, Mg₂ and Mgb indices: relative intensities of molecular bands as a function of stellar parameters", B. Barbuy, M. Erdelyi-Mendes, A. Milone: 1992, *Astronomy & Astrophysics Supplement Series* 93, 235-246

27. "Metallicity of the star III-17 in the bulge globular cluster NGC 6553", B. Barbuy, S. Castro, S. Ortolani, E. Bica: 1992, *Astronomy & Astrophysics* 259, 607-613
28. "CNO overabundances in 6 stars of ω Centauri", A. Milone, B. Barbuy, M. Spite, F. Spite: 1992, *Astronomy & Astrophysics* 261, 551-557
29. "Light element abundances in Barium stars", B. Barbuy, A. Jorissen, S. C. F. Rossi, M. Arnould: 1992, *Astronomy & Astrophysics* 262, 216-228
30. "Blanketing effects in the very metal-rich bulge globular cluster Terzan 1", S. Ortolani, E. Bica, B. Barbuy: 1993, *Astronomy & Astrophysics* 267, 66-74
31. "IRAS colours of Li-rich giants", J. Gregorio-Hetem, B.V. Castilho, B. Barbuy: 1993, *Astronomy & Astrophysics Letters* 268, L25-L26
32. "NGC 6603: a young open cluster towards the bulge", E. Bica, S. Ortolani, B. Barbuy: 1993, *Astronomy & Astrophysics* 270, 117-121
33. "Field CMD analysis along the bulge major axis", S. Ortolani, E. Bica, B. Barbuy: 1993, *The Astrophysical Journal Letters* 408, L29-L31
34. "Type I planetary nebulae in the Large Magellanic Cloud: Oxygen, Sulphur and Argon abundances as tracers of chemical enrichment", J.A. de Freitas Pacheco, B. Barbuy, R.D.D. Costa, T. Idiart: 1993, *Astronomy & Astrophysics*, 271, 429-434
35. "Analysis of F6:4, a star in the young association of the LMC: NGC 1948", F. Spite, B. Barbuy, M. Spite: 1993, *Astronomy & Astrophysics* 272, 116-122
36. "Velocity dispersions and metallicities of 18 S0/E galaxies: synthetic MgI triplet lines in old composite systems", R. E. de Souza, B. Barbuy, S. dos Anjos: 1993, *Astronomical Journal* 105, 1737-1744
37. "Lyngå 7: a new disk globular cluster ?", S. Ortolani, E. Bica, B. Barbuy: 1993, *Astronomy & Astrophysics* 273, 415-420
38. "Intensity of CaH lines in cool dwarfs", B. Barbuy, R. Schiavon, J. Gregorio-Hetem, P.D. Singh, C. Batalha: 1993, *Astronomy & Astrophysics Supplement Series* 101, 409-413
39. "Oxygen abundances in the Large Magellanic Cloud: a prediction on SNII/SNI rates", B. Barbuy, J. A. de Freitas Pacheco, S. Castro: 1994, *Astronomy & Astrophysics*, 283, 32-36
40. "The globular cluster NGC 6540", E. Bica, S. Ortolani, B. Barbuy: 1994, *Astronomy & Astrophysics*, 283, 67-75

41. "A calibration of Mg_2 vs $[Fe/H]$ and $[Mg/Fe]$ ", B. Barbuy: 1994, The Astrophysical Journal, 430, 218-221
42. "NGC 6522: an intermediate metallicity globular cluster projected on the Baade Window", B. Barbuy, S. Ortolani, E. Bica: 1994, Astronomy & Astrophysics, 285, 871-874
43. "The globular cluster NGC 6652", S. Ortolani, E. Bica, B. Barbuy: 1994, Astronomy & Astrophysics, 286, 444-448
44. "The metal-rich globular cluster NGC 6356", E. Bica, S. Ortolani, B. Barbuy: 1994, Astronomy & Astrophysics Supplement Series, 106, 161-164
45. "Cooling by grains and H_2 in collapsing clouds of different metallicities", S.C.F. Rossi, B. Barbuy, G. Pineau des Forêts, P. Benevides Soares: 1994, Astrophysics & Space Science, 213, 113-119
46. "Carbon abundances in the LMC globular cluster NGC 1818", M.T. Meliani, B. Barbuy, T. Richtler: 1994, Astronomy & Astrophysics, 290, 753-761
47. "TiO bands as a function of stellar parameters", A. Milone, B. Barbuy: 1994, Astronomy & Astrophysics Supplement Series, 108, 449-454
48. "The low Galactic latitude metal-rich globular cluster NGC 6440", S. Ortolani, B. Barbuy, E. Bica: 1994, Astronomy & Astrophysics Supplement Series, 108, 653-659
49. "Analysis of the moderately Li-rich giant HD 146850", B.V. Castilho, B. Barbuy, J. Gregorio-Hetem: 1995, Astronomy & Astrophysics, 297, 503-508
50. "Two reddened globular clusters projected close to the Galactic center: Palomar 6 and Djorgovski 1", S. Ortolani, E. Bica, B. Barbuy: 1995, Astronomy & Astrophysics, 296, 680-684
51. "High resolution abundance analysis of two stars near the globular cluster NGC 6522 projected in Baade's Window", S. Castro, B. Barbuy, E. Bica, S. Ortolani, A. Renzini: 1995, Astronomy & Astrophysics Supplement Series, 111, 17-25
52. "Stellar population study in the galactic direction ($l \approx 0^\circ$, $b \approx 45^\circ$)", M.-N. Perrin, E. Friel, O. Bienaymé, R. Cayrel, B. Barbuy, J. Boulon: 1995, Astronomy & Astrophysics, 298, 107-114
53. "Metallicities and carbon abundances of 5 red supergiants of the SMC globular cluster NGC 330", M. T. Meliani, B. Barbuy, M.-N. Perrin: 1995, Astronomy & Astrophysics, 300, 349-358
54. "BH 176 and AM 2: Globular or open clusters ?" S. Ortolani, E. Bica, B. Barbuy: 1995, Astronomy & Astrophysics, 300, 726-731

55. "Carbon isotope ratios in very Lithium rich K giants", L. da Silva, J. R. de la Reza, B. Barbuy: 1995, *The Astrophysical Journal Letters*, 448, L41-L44
56. "Determination of atmospheric parameters of T Tauri stars", R. Piorno Schiavon, C. Batalha, B. Barbuy: 1995, *Astronomy & Astrophysics*, 301, 840-852
57. "Near-coeval formation of the Galactic bulge and halo inferred from globular cluster ages", S. Ortolani, A. Renzini, R. Gilmozzi, G. Marconi, B. Barbuy, E. Bica, R. M. Rich: 1995, *Nature*, 377, 701-704
58. "Horizontal Branch morphology and $H\beta$ indices of globular clusters", J. A. de Freitas Pacheco, B. Barbuy: 1995, *Astronomy & Astrophysics*, 302, 718-722
59. "Synthesis of the integrated spectrum of metal-rich globular clusters using the HR diagram and a stellar library", J. F. dos Santos Jr., E. Bica, H. Dottori, S. Ortolani, B. Barbuy: 1995, *Astronomy & Astrophysics*, 303, 753-760
60. "Synthetic spectra for single-aged populations: TiO bands", A. Milone, B. Barbuy, E. Bica: 1995, *Astronomy & Astrophysics Supplement Series*, 113, 547-556
61. "Three globular cluster candidates in the direction of the bulge shown to be small emission nebulae", E. Bica, J.J. Clariá, Ch. Bonatto, A.E. Piatti, S. Ortolani, B. Barbuy: 1995, *Astronomy & Astrophysics*, 303, 747-752
62. "Metallicities and carbon abundances of 40 field red supergiants in the Small Magellanic Cloud", M.T. Meliani, B. Barbuy, T. Richtler: 1995, *Astronomy & Astrophysics*, 304, 347-356
63. "Carbon, nitrogen and oxygen abundances in yellow supergiants", B. Barbuy, J. R. de Medeiros, A. Maeder: 1996, *Astronomy & Astrophysics*, 305, 911-919
64. "NTT V, I and Gunn z colour-magnitude diagrams of Liller 1: a globular cluster as metal-rich as the inner bulge stellar population ?", S. Ortolani, E. Bica, B. Barbuy: 1996, *Astronomy & Astrophysics*, 306, 134-140
65. "Measuring stellar oscillations using equivalent widths of absorption lines", T. R. Bedding, H. Kjeldsen, J. Reetz, B. Barbuy: 1996, *Monthly Notices of the Royal Astronomical Society*, 280, 1155-1161
66. "NTT VI photometry of the metal-rich and obscured bulge globular cluster Terzan 5", S. Ortolani, B. Barbuy, E. Bica: 1996, *Astronomy & Astrophysics*, 308, 733-737
67. "NTT VI colour-magnitude diagrams of the bulge globular cluster Tonantzintla 2", E. Bica, S. Ortolani, B. Barbuy: 1996, *Astronomy & Astrophysics Supplement Ser.*, 120, 153-157

68. "High-resolution spectra of Lithium-rich giants", B.V. Castilho, J. Gregorio-Hetem, B. Barbuy: 1997, *Journal of Astronomical Data*, 3, 1 (em CD-ROM)
69. "Analysis of two CH/CN-strong very metal-poor giants", B. Barbuy, R. Cayrel, M. Spite, T.C. Beers, F. Spite, B. Nordström, P.E. Nissen: 1997, *Astronomy & Astrophysics Letters*, 317, L63-L66
70. "HP 1: a blue horizontal branch globular cluster in the bulge", S. Ortolani, E. Bica, B. Barbuy: 1997, *Monthly Notices of the Royal Astronomical Society*, 284, 692-698
71. "High quality seeing V, I and Gunn z imaging of Terzan 4: a blue horizontal branch bulge globular cluster", S. Ortolani, B. Barbuy, E. Bica: 1997, *Astronomy & Astrophysics*, 319, 850-854
72. "V, I and Gunn z photometry of the metal-rich globular cluster Terzan 6", B. Barbuy, S. Ortolani, E. Bica: 1997, *Astronomy & Astrophysics Supplement Ser.*, 122, 483-488
73. "Carbon, nitrogen, oxygen and lithium abundances in six cool supergiants of the Small Magellanic Cloud", V. Hill, B. Barbuy, M. Spite: 1997, *Astronomy & Astrophysics*, 323, 461-468
74. "The near-infrared NaI doublet feature in M stars", R. P. Schiavon, B. Barbuy, S.C.F. Rossi, A. Milone: 1997, *The Astrophysical Journal*, 479, 902-906
75. "The FeH Wing-Ford band in spectra of M stars", R. Schiavon, B. Barbuy, P.D. Singh: 1997, *The Astrophysical Journal*, 484, 499-515
76. "High-resolution abundance analysis of very metal-rich stars in the solar neighbourhood", S. Castro, R.M. Rich, M. Grenon, B. Barbuy, J. McCarthy: 1997, *Astronomical Journal*, 114, 376-387
77. "Capture of field stars by globular clusters in dense bulge regions", E. Bica, H. Dottori, I. Rodrigues, S. Ortolani, B. Barbuy: 1997, *The Astrophysical Journal Letters*, 482, L49-L51
78. "V, I photometry of the metal-rich bulge globular cluster Terzan 2", S. Ortolani, E. Bica, B. Barbuy: 1997, *Astronomy & Astrophysics*, 326, 614-619
79. "NGC 6749: a metal-poor halo globular cluster in a disk field rich in Mira variables", L. Rosino, S. Ortolani, B. Barbuy, E. Bica: 1997, *Monthly Notices of the Royal Astronomical Society*, 289, 745-752
80. "V, I and Gunn z photometry of faint bulge globular clusters: Terzan 10, ESO456-SC38 and UKS1", S. Ortolani, E. Bica, B. Barbuy: 1997, *Astronomy & Astrophysics Supplement Ser.*, 126, 319-324

81. "Matching stellar population models for bulge globular clusters", G. Bruzual A., B. Barbuy, S. Ortolani, E. Bica, F. Cuisinier, T. Lejeune, R. P. Schiavon: 1997, *Astronomical Journal*, 114, 1531-1538
82. "Li-rich giants: a survey based on IRAS colours", B.V. Castilho, J. Gregorio-Hetem, F. Spite, M. Spite, B. Barbuy: 1998, *Astronomy & Astrophysics Supplement Ser.*, 127, 139-144
83. "Infrared array photometry of bulge globular clusters - I. Combined ground based JK and HST VI photometry of NGC 6553", M.D. Guarnieri, S. Ortolani, P. Montegriffo, A. Renzini, B. Barbuy, E. Bica, A. Moneti: 1998, *Astronomy & Astrophysics*, 331, 70-80
84. " V, I photometry of the bulge metal-rich globular clusters NGC 6380 and Terzan 12", S. Ortolani, E. Bica, B. Barbuy: 1998, *Astronomy & Astrophysics Supplement Ser.*, 127, 471-477
85. "Globular clusters within 5° of the Galactic center", B. Barbuy, E. Bica, S. Ortolani: 1998, *Astronomy & Astrophysics*, 333, 117-124
86. "Age and metallicity of star clusters in the Magellanic Clouds", J. A. de Freitas Pacheco, B. Barbuy, T. Idiart: 1998, *Astronomy & Astrophysics*, 332, 19-24
87. "V, I photometry of the post-core collapse globular cluster NGC 6558 and the adjacent bulge field population", R.M. Rich, S. Ortolani, E. Bica, B. Barbuy: 1998, *Astronomical Journal*, 116, 1295-1300
88. "Terzan 3 and IC 1276 (Palomar 7): two metal-rich bulge globular clusters uncovered", B. Barbuy, S. Ortolani, E. Bica: 1998, *Astronomy & Astrophysics Supplement Ser.*, 132, 318-325
89. "The temperature scale of metal-rich M giants based on TiO bands: population synthesis in the near infrared", R. P. Schiavon, B. Barbuy: 1999, *The Astrophysical Journal*, 510, 934-943
90. "High-resolution abundance analysis of two individual stars of the bulge globular cluster NGC 6553", B. Barbuy, A. Renzini, S. Ortolani, E. Bica, M. D. Guarnieri: 1999, *Astronomy & Astrophysics*, 341, 539-546
91. "Colour-magnitude diagrams of the post-core collapse globular cluster NGC 6256 and NGC 6717 (Palomar 9)", S. Ortolani, B. Barbuy, E. Bica: 1999, *Astronomy & Astrophysics Supplement Ser.*, 136, 237-243
92. "Beryllium abundance in lithium-rich giants", B.V. Castilho, F. Spite, B. Barbuy, M. Spite, J.R. De Medeiros, J. Gregorio-Hetem, 1999, *Astronomy & Astrophysics*, 345, 249-255

93. "The nature of the star clusters ESO93-SC08 and ESO452-SC11", E. Bica, S. Ortolani, B. Barbuy, 1999, *Astronomy & Astrophysics Supplement Ser.*, 136, 363-372
94. "Oscillator strengths and damping constants for atomic lines in the J and H bands", J. Melendez, B. Barbuy: 1999, *The Astrophysical Journal Supplement Series*, 124, 527-546
95. "The metal-rich bulge globular cluster NGC 6401", B. Barbuy, S. Ortolani, E. Bica, S. Desidera: 1999, *Astronomy & Astrophysics*, 348, 783-788
96. "Blue horizontal branch globular clusters towards the bulge: Terzan 9, NGC 6139 and NGC 6453", S. Ortolani, E. Bica, B. Barbuy: 1999, *Astronomy & Astrophysics Supplement Ser.*, 138, 267-273
97. "HST observations of Terzan 1: a second parameter globular cluster in the Galactic bulge" S. Ortolani, B. Barbuy, E. Bica, A. Renzini, G. Marconi, R. Gilmozzi: 1999, *Astronomy & Astrophysics*, 350, 840-846
98. "Near-infrared spectral features in single-aged stellar populations", R. P. Schiavon, B. Barbuy, G. Bruzual A.: 2000, *The Astrophysical Journal*, 532, 453-460
99. "Heavy-element abundances in the CH/CN-strong very metal-poor stars CS 22948-27 and CS 29497-34", V. Hill, B. Barbuy, M. Spite, R. Cayrel, F. Spite, B. Plez, T.C. Beers, B. Nordström, P.E. Nissen: 2000, *Astronomy & Astrophysics*, 353, 557-568
100. "B and V photometry of the metal-rich bulge globular cluster NGC 6304", S. Ortolani, Y. Momany, E. Bica, B. Barbuy: 2000, *Astronomy & Astrophysics*, 357, 495-500
101. " α -elements to iron ratio in early-type galaxies from TiO and Mg₂", A. Milone, B. Barbuy, R. P. Schiavon: 2000, *Astronomical Journal*, 120, 131-138
102. "B and V photometry of the open cluster UKS 2", S. Ortolani, E. Bica, B. Barbuy: 2000, *Astronomy & Astrophysics Supplement Ser.* 145, 399-403
103. "High-resolution abundance analysis of 16 giants and subgiants of the metal-poor globular cluster NGC 6397", B.V. Castilho, L. Pasquini, D.M. Allen, B. Barbuy, P. Molaro: 2000, *Astronomy & Astrophysics*, 361, 92-100
104. "ESO 280-SC06: a new globular cluster in the Galaxy", S. Ortolani, E. Bica, B. Barbuy: 2000, *Astronomy & Astrophysics*, 361, L57-L59
105. "Colour Magnitude Diagrams of the inner halo globular clusters NGC 5986 and NGC 6712", S. Ortolani, Y. Momany, B. Barbuy, E. Bica, M. Catelan: 2000, *Astronomy & Astrophysics*, 362, 953-958

106. "Detailed analysis of a sample of Li-rich giants", B.V. Castilho, J. Gregorio-Hetem, F. Spite, B. Barbuy, M. Spite: 2000, *Astronomy & Astrophysics*, 364, 672-680
107. "Measurement of stellar age from Uranium decay" R. Cayrel, V. Hill, T.C. Beers, B. Barbuy, M. Spite, F. Spite, B. Plez, J. Andersen, P. Bonifacio, P. François, P. Molaro, B. Nordström, F. Primas: 2001, *Nature*, 409, 691-693
108. "The proper motion of the Globular Cluster NGC 6553 and of Bulge stars with the Hubble Space Telescope", M. Zoccali, A. Renzini, S. Ortolani, E. Bica, B. Barbuy: 2001, *Astronomical Journal*, 121, 2638-2646
109. "Oxygen abundances in metal-poor stars ($-2.2 < [\text{Fe}/\text{H}] < -1.2$) from infrared OH lines", J. Meléndez, B. Barbuy, F. Spite: 2001, *The Astrophysical Journal*, 556, 858-871
110. "V and I photometry of the moderately metal-rich globular clusters NGC 6569 and Palomar 11", S. Ortolani, E. Bica, B. Barbuy: 2001, *Astronomy & Astrophysics*, 374, 564-569
111. "Membership of 23 stars towards the bulge globular clusters NGC 6528 and NGC 6553", P. Coelho, B. Barbuy, M.-N. Perrin, T. Idiart, R.P. Schiavon, S. Ortolani, E. Bica: 2001, *Astronomy & Astrophysics*, 376, 136-143
112. "HST NICMOS photometry of the reddened bulge globular clusters NGC 6528, Terzan 5, Liller 1, UKS 1 and Terzan 4", S. Ortolani, B. Barbuy, E. Bica, A. Renzini, M. Zoccali, R.M. Rich, S. Cassisi: 2001, *Astronomy & Astrophysics*, 376, 878-884
113. "Metallicity and radial velocity of the second parameter globular cluster Terzan 1 in the galactic bulge" T. Idiart, B. Barbuy, M.-N. Perrin, S. Ortolani, E. Bica, A. Renzini: 2002, *Astronomy & Astrophysics*, 381, 472-480
114. "Detailed analysis of nearby bulge-like dwarf stars. I. Stellar parameters, kinematics and oxygen abundances", L. Pompéia, B. Barbuy, M. Grenon: 2002, *The Astrophysical Journal*, 566, 845-856
115. "VLT-UVES spectroscopy of a bulge giant magnified through microlensing: EROS-BLG-2000-5", D. Minniti, B. Barbuy, V. Hill, E. Bica, S. Ortolani, R.M. Rich, K.H. Cook, T. Vandehei, A. Renzini, L. Pasquini, D. Bennett: 2002, *Astronomy & Astrophysics*, 384, 884-889
116. "Using Cepheids to determine the Galactic abundance gradient. I. The solar neighbourhood", S. Andrievsky, V.V. Kovtyukh, R.E. Luck, J.R.D. Lépine, D. Bersier, W.J. Maciel, B. Barbuy, V.G. Klochkova, V.E. Panchuk, R.U. Karpishek: 2002, *Astronomy & Astrophysics*, 381, 32-50

117. "Detailed analysis of nearby bulge-like dwarf stars. II. Lithium abundances", L. Pompéia, B. Barbuy, M. Grenon, B.V. Castilho: 2002, *The Astrophysical Journal*, 570, 820-824
118. "First stars. I. The extreme r-element rich, iron-poor halo giant CS 31082-001: implications for the r-process site and radioactive cosmochronology": V. Hill, B. Plez, R. Cayrel, T.C. Beers, B. Nordström, J. Andersen, M. Spite, F. Spite, B. Barbuy, P. Bonifacio, E. Depagne, P. François, P. Molaro, F. Primas: 2002, *Astronomy & Astrophysics*, 387, 560-579
119. "Light element abundances in the young open clusters NGC 3293, NGC 4755 and NGC 6231: tracers of stellar evolution", G. Mathys, S. Andrievsky, B. Barbuy, K. Cunha, S. Korotin: 2002, *Astronomy & Astrophysics*, 387, 890-902
120. "Keck-NIRSPEC infrared OH lines: Oxygen abundances in metal-poor stars down to $[\text{Fe}/\text{H}] = -2.9$ ", J. Meléndez, B. Barbuy: 2002, *The Astrophysical Journal*, 575, 474-483
121. "The very reddened open clusters Pismis 23 (Lyngå 10) and Stephenson 2", S. Ortolani, E. Bica, B. Barbuy: 2002, *Astronomy & Astrophysics*, 390, 931-935
122. "First stars. II. Elemental abundances in the extremely metal poor star CS 22949-37: a possible connection with massive stellar explosions", E. Depagne, V. Hill, M. Spite, F. Spite, B. Plez, T.C. Beers, B. Barbuy, R. Cayrel, J. Andersen, P. Bonifacio, P. Molaro, B. Nordström, F. Primas: 2002, *Astronomy & Astrophysics*, 390, 187-198
123. "A photometric study of the young open cluster NGC 1220", S. Ortolani, G. Carraro, S. Covino, E. Bica, B. Barbuy: 2002, *Astronomy & Astrophysics*, 391, 179-185
124. "Chemical abundances in twelve red giants of the Large Magellanic Cloud from High-Resolution Infrared Spectroscopy", V.V. Smith, K.H. Hinkle, K. Cunha, B. Plez, D.L. Lambert, C.A. Pilachowski, B. Barbuy, J. Meléndez, S. Balachandran, M.S. Bessell, D.P. Geisler, J.E. Hesser, C. Winge: 2002, *Astronomical Journal*, 124, 3241-3254
125. "Age and Metallicity distribution of the galactic bulge from extensive Optical and Near-IR Stellar photometry", M. Zoccali, A. Renzini, S. Ortolani, L. Greggio, I. Saviane, S. Cassisi, M. Rejkuba, B. Barbuy, R.M. Rich, E. Bica: 2003, *Astronomy & Astrophysics*, 399, 931-956
126. "Extinction map within 10° of the Galactic Centre using the 2MASS", C.M. Dutra, B.X. Santiago, E. Bica, B. Barbuy: 2003, *Monthly Notices of the Royal Astronomical Society*, 338, 253-262
127. "A Catalogue of infrared star clusters and stellar groups" E. Bica, C. Dutra B. Barbuy: 2003, *Astronomy & Astrophysics*, 397, 177-180

128. "Oxygen abundance in the template halo giant HD 122563", B. Barbuy, J. Meléndez, M. Spite, F. Spite, E. Depagne, V. Hill, R. Cayrel, P. Bonifacio, A. Damineli, C.A.O. Torres, 2003, *The Astrophysical Journal*, 588, 1072-1081
129. "New Infrared star clusters in the southern Milky Way with 2MASS", C.M. Dutra, E. Bica, J. Soares, B. Barbuy, 2003, *Astronomy & Astrophysics*, 400, 533-539
130. "First stars. III. A detailed elemental abundance study of 4 extremely metal-poor giants" P. François, E. Depagne, V. Hill, M. Spite, F. Spite, B. Plez, T.C. Beers, B. Barbuy, R. Cayrel, J. Andersen, P. Bonifacio, P. Molaro, B. Nordström, F. Primas: 2003, *Astronomy & Astrophysics*, 403, 1105-1114
131. "B, V and I photometry of the globular clusters NGC 6325 and NGC 6355", S. Ortolani, E. Bica, B. Barbuy: 2003, *Astronomy & Astrophysics*, 402, 565-569
132. "New Infrared star clusters in the Northern and Equatorial Milky Way with 2MASS", E. Bica, C.M. Dutra, J. Soares, B. Barbuy, 2003, *Astronomy & Astrophysics*, 404, 223-232
133. "V, J, H and K Imaging of the Metal-rich globular cluster NGC 6528", Y. Momany, S. Ortolani, E.V. Held, B. Barbuy, E. Bica, A. Renzini, L.R. Bedin, G. Marconi: 2003, *Astronomy & Astrophysics*, 402, 607-616
134. "A grid of synthetic spectra and indices Fe5270, Fe5335, Mgb and Mg₂, as a function of stellar parameters and $[\alpha/\text{Fe}]$ ", B. Barbuy, M.-N. Perrin, D. Katz, P. Coelho, R. Cayrel, M. Spite, C. van't Veer-Menneret: 2003, *Astronomy & Astrophysics*, 404, 661-668
135. "Detailed analysis of nearby bulge-like dwarf stars. III. α and heavy-elements", L. Pompéia, B. Barbuy, M. Grenon: 2003, *The Astrophysical Journal*, 592, 1173-1185
136. "NTT infrared imaging of star cluster candidates towards the central parts of the Galaxy", C.M. Dutra, S. Ortolani, E. Bica, B. Barbuy, M. Zoccali: 2003, *Astronomy & Astrophysics*, 408, 127-134
137. "Gemini-PHOENIX Infrared High-Resolution Analysis of Five Giants in the Bulge Globular Cluster NGC 6553", J. Meléndez, B. Barbuy, E. Bica, S. Ortolani, M. Zoccali, A. Renzini, V. Hill: 2003, *Astronomy & Astrophysics*, 411, 417-426
138. "On the calibration of COBE/IRAS dust emission reddening maps", C.M. Dutra, A.V. Ahumada, E. Bica, J.J. Clariá, B. Barbuy: 2003, *Astronomy & Astrophysics*, 408, 287-295
139. "First Stars. IV. CS 29497-030: evidence for operation of the s-process at very low metallicity", T. Sivarani, P. Bonifacio, P. Molaro, R. Cayrel, M. Spite, F. Spite, B. Plez, B. Barbuy, T.C. Beers, E. Depagne, V. Hill, P. François, B. Nordström, F. Primas: 2004, *Astronomy & Astrophysics*, 413, 1073-1085

140. "First Stars. V. Abundance patterns and trends of elements from C to Zn", R. Cayrel, E. Depagne, M. Spite, V. Hill, F. Spite, P. François, B. Plez, T. Beers, F. Primas, J. Andersen, B. Barbuy, P. Bonifacio, P. Molaro, B. Nordström: 2004, *Astronomy & Astrophysics*, 416, 1117-1138
141. "A pair of reddened young star clusters in Centaurus", E. Bica, S. Ortolani, Y. Momany, C. Dutra, B. Barbuy: 2004, *Monthly Notices of the Royal Astronomical Society*, 352, 226-232
142. "The metal content of the bulge globular cluster NGC 6528", M. Zoccali, B. Barbuy, V. Hill, S. Ortolani, A. Renzini, E. Bica, Y. Momany, L. Pasquini, D. Minniti, R.M. Rich, 2004, *Astronomy & Astrophysics*, 423, 507-516
143. "Globular cluster and Galaxy Formation: M31, the Milky Way and implications for globular cluster systems in spiral galaxies", Burstein, D., Li, Y., Freeman, K.C., Norris, J.E., Bessell, M.S., Bland-Hawthorn, J., Gibson, B.K., Beasley, M.A., Lee, H., Barbuy, B., Huchra, J.P., Brodie, J.P., Forbes, D.A. 2004, *The Astrophysical Journal*, 614, 158-166
144. "Lead abundance in the uranium star CS 31082-001", B. Plez, V. Hill, R. Cayrel, M. Spite, B. Barbuy, T.C. Beers, P. Bonifacio, F. Primas, B. Nordström, 2004: *Astronomy & Astrophysics*, 428, L9-L12
145. "The old open clusters Berkeley 36, Berkeley 73 and Biurakan 13 (Berkeley 34)", S. Ortolani, E. Bica, B. Barbuy, M. Zoccali: 2005, *Astronomy & Astrophysics*, 429, 607-612
146. "First Stars. VI. Abundance of C N O and Li, and mixing in the extremely metal-poor giants. Galactic evolution of the light elements", M. Spite, R. Cayrel, B. Plez, V. Hill, F. Spite, P. François, P. Bonifacio, B. Barbuy, T. Beers, J. Andersen, P. Molaro, B. Nordström, F. Primas: 2005, *Astronomy & Astrophysics*, 430, 655-668
147. "New analysis of the two carbon-rich stars CS 22948-27 and CS 29497-34: binarity and neutron capture elements", B. Barbuy, M. Spite, F. Spite, V. Hill, R. Cayrel, B. Plez, P. Petitjean: 2005, *Astronomy & Astrophysics*, 429, 1031-1042
148. "VLT-UVES analysis of 5 giants in 47 Tucanae", A. Alves-Brito, B. Barbuy, S. Ortolani, Y. Momany, V. Hill, M. Zoccali, A. Renzini, L. Pasquini, D. Minniti, E. Bica, R.M. Rich: 2005, *Astronomy & Astrophysics*, 435, 657-667
149. "Ages, metallicities and α -element enhancement for galaxies in Hickson compact groups", Mendes de Oliveira, C., Coelho, P., González, J.J., Barbuy, B. 2005, *Astronomical Journal*, 130, 55-64
150. "Colour Magnitude analysis of five old open clusters", S. Ortolani, E. Bica, B. Barbuy: 2005, *Astronomy & Astrophysics*, 437, 531-536

151. “A library of high resolution synthetic stellar spectra from 300nm to 1.8 μ m with solar and α -enhanced composition”, P. Coelho, B. Barbuy, J. Meléndez, R.P. Schiavon, B.V. Castilho: 2005, *Astronomy & Astrophysics*, 443, 735-746
152. “CNO in evolved intermediate mass stars”, R. Smiljanic, B. Barbuy, J.R. De Medeiros, A. Maeder, 2006, *Astronomy & Astrophysics*, 449, 655-671
153. “SOAR BVI Photometry of the Metal-Poor bulge globular cluster NGC 6642”, B. Barbuy, E. Bica, S. Ortolani, C. Bonatto: 2006, *Astronomy & Astrophysics*, 449, 1019-1024
154. “VLT-UVES spectroscopy of two giants in the metal-poor bulge globular cluster HP-1”, B. Barbuy, M. Zoccali, S. Ortolani, Y. Momany, D. Minniti, V. Hill, A. Renzini, R.M. Rich, E. Bica, L. Pasquini, R.K.S. Yadav: 2006, *Astronomy & Astrophysics*, 449, 349-358
155. “Globular cluster system and Milky Way properties revisited”, E. Bica, C. Bonatto, B. Barbuy, S. Ortolani, 2006, *Astronomy & Astrophysics*, 450, 105-115
156. “Heavy-element abundances in 26 Barium stars. I. Abundances”, D.M. Allen, B. Barbuy: 2006, *Astronomy & Astrophysics*, 454, 895-915 (astro-ph: 0604036)
157. “Heavy-element abundances in 26 Barium stars. II. Contribution of s-, r- and p-processes in the production of heavy elements”, D.M. Allen, B. Barbuy: 2006, *Astronomy & Astrophysics*, 454, 917-931 (astro-ph: 0604064)
158. “AL 3 (BH 261): a new globular cluster in the Galaxy”, S. Ortolani, E. Bica, B. Barbuy: 2006, *The Astrophysical Journal Letters*, 646, L115-L118
159. “Detection of K_s-excess stars in the 14 Myr open cluster NGC 4755”, C. Bonatto, E. Bica, S. Ortolani, B. Barbuy: 2006, *Astronomy & Astrophysics*, 453, 121-132
160. “First Stars. IX. Mixing in extremely metal-poor giants. Variation of the $^{12}\text{C}/^{13}\text{C}$ ratio”, M. Spite, R. Cayrel, V. Hill, F. Spite, P. François, B. Plez, P. Bonifacio, P. Molaro, E. Depagne, J. Andersen, B. Barbuy, T. Beers, B. Nordström, F. Primas: 2006, *Astronomy & Astrophysics*, 455, 291-301
161. “Oxygen abundances in the Galactic bulge: evidence for fast chemical enrichment”, M. Zoccali, A. Lecureur, B. Barbuy, V. Hill, A. Renzini, D. Minniti, A. Gómez, S. Ortolani: 2006, *Astronomy & Astrophysics Letters*, 457, L1-L4
162. “First Stars. X. The nature of three unevolved carbon-enhanced metal-poor stars”, T. Sivarani, T.C. Beers, P. Bonifacio, P. Molaro, R. Cayrel, F. Herwig, M. Spite, F. Spite, B. Plez, J. Andersen, B. Barbuy, E. Depagne, V. Hill, P. François, B. Nordström, F. Primas: 2006, *Astronomy & Astrophysics*, 459, 125-135

163. “VLT-UVES abundance analysis of 4 giants in the template bulge cluster NGC 6553”, A. Alves-Brito, B. Barbuy, M. Zoccali, D. Minniti, S. Ortolani, V. Hill, A. Renzini, L. Pasquini, E. Bica, R.M. Rich, J. Melendez, Y. Momany: 2006, *Astronomy & Astrophysics*, 460, 269-276
164. “Truncated star formation in compact groups of galaxies: a stellar population study” I.G. de la Rosa, R.R. de Carvalho, A. Vazdekis, B. Barbuy: 2007, *Astronomical Journal*, 133, 330-346
165. “First Stars. VII. Lithium in extremely metal poor dwarfs”, P. Bonifacio, P. Molaro, T. Sivarani, R. Cayrel, M. Spite, F. Spite, B. Plez, J. Andersen, B. Barbuy, T.C. Beers, E. Depagne, V. Hill, P. François, B. Nordström, F. Primas: 2007, *Astronomy & Astrophysics*, 462, 851-864 (astro-ph/0610245)
166. “Light elements in the Galactic bulge”, A. Lecureur, V. Hill, M. Zoccali, B. Barbuy, A. Gómez, D. Minniti, S. Ortolani, A. Renzini: 2007, *Astronomy & Astrophysics*, 465, 799-814
167. “Distances of the bulge globular clusters Terzan 5, Liller 1, UKS 1 and Terzan 4 based on HST NICMOS photometry”, S. Ortolani, B. Barbuy, E. Bica, M. Zoccali, A. Renzini: 2007, *Astronomy & Astrophysics*, A&A, 470, 1043-1049 (astro-ph: 0705.4030)
168. “NGC 6558: a metal-poor globular cluster in the bulge”, B. Barbuy, M. Zoccali, S. Ortolani, V. Hill, A. Renzini, D. Minniti, E. Bica, A. Gomez: 2007, *Astronomical Journal*, 134, 1613-1625
169. “Spectral models for solar scaled and α -enhanced populations”, P. Coelho, G. Bruzual, S. Charlot, A. Weiss, B. Barbuy, J.W. Ferguson: 2007, *Monthly Notices of the Royal Astronomical Society*, 382, 498-514 (astro-ph/07082790)
170. “FSR 584: a new globular cluster in the Galaxy”, E. Bica, C. Bonatto, S. Ortolani, B. Barbuy: 2007, *A&A*, 472, 483-488
171. “FSR 1767: a new globular cluster in the Galaxy”, C. Bonatto, E. Bica S. Ortolani, B. Barbuy: 2007, *MNRAS*, 381, L45-L49 (astro-ph/0708.0501)
172. “First Stars. VIII. Abundances and scatter of the neutron-capture elements in the early Galaxy”, P. François, E. Depagne, V. Hill, M. Spite, F. Spite, B. Plez, T.C. Beers, G. James, B. Barbuy, R. Cayrel, J. Andersen, P. Bonifacio, P. Molaro, B. Nordström, F. Primas: 2007, *Astronomy & Astrophysics*, 476, 935-950 (astro-ph/07093454)
173. “First Stars. XI. Chemical composition of the most metal-poor dwarfs in the binary CS 22876-032”, J.I. González-Hernández, P. Bonifacio, H.-G. Ludwig, E. Caffau, M. Spite, F. Spite, R. Cayrel, P. Molaro, V. Hill, P. François, B. Plez, T.C. Beers, T. Sivarani, J. Andersen, B. Barbuy, E. Depagne, B. Nordström, F. Primas: 2008, *Astronomy & Astrophysics*, 480, 233-246

174. “Early evolution of embedded clusters: comparison of DBSB 48 in the nebula Hoeffleit 18 with Trumpler 14”, C. Bonatto, S. Ortolani, E. Bica, B. Barbuy, Y. Momany: 2008, *New Astronomy*, 13, 508-518 (ArXiv: 0801.4661).
175. “Abundance variations in the globular cluster M71 (NGC 6838)”, A. Alves-Brito, R. P. Schiavon, B. Castilho, B. Barbuy: 2008, *Astronomy & Astrophysics*, 486, 941-950
176. “Chemical similarities between the Galactic bulge and thick disk”, J. Meléndez, M. Asplund, A. Alves-Brito, K. Cunha, B. Barbuy, M.S. Bessell, C. Chiappini, K.C. Freeman, I. Ramírez, V.V. Smith, D. Yong: 2008, *Astronomy & Astrophysics Letters*, 484, L21-L25 (arXiv0804.4124)
177. “The old metal-poor open cluster ESO 92-SC05: accreted from a dwarf galaxy?”, S. Ortolani, E. Bica, B. Barbuy: 2008, *MNRAS*, 388, 723-728 (ArXiv: 0805.2117)
178. “The metal content of bulge field stars from FLAMES-GIRAFFE spectra. I. Stellar parameters and Iron abundances”, M. Zoccali, A. Lecureur, V. Hill, B. Barbuy, A. Renzini, D. Minniti, A. Gómez, S. Ortolani: 2008, *Astronomy & Astrophysics*, 486, 177-189 (ArXiv: 0805.1218)
179. “Multi-conjugate adaptive optics VLT photometry of the distant old open cluster FSR 1415”, Y. Momany, S. Ortolani, C. Bonatto, E. Bica, B. Barbuy 2008, *MNRAS*, 391, 1650-1658
180. “Abundances in the Galactic bulge: results from planetary nebulae and giant stars”, C. Chiappini, S.K. Górný, G. Stasińska, B. Barbuy: 2009, *Astronomy & Astrophysics*, 494, 591-610 (ArXiv 0812.0558)
181. “Accurate and precise gf-values for FeII lines”, J. Meléndez, B. Barbuy: 2009, *Astronomy & Astrophysics*, 497, 611-617 (ArXiv 0901.4451)
182. “CNONa and $^{12}\text{C}:^{13}\text{C}$ in giant stars of 10 open clusters”, R. Smiljanic, R. Gauderon, P. North, B. Barbuy, C. Charbonnel, N. Mowlawi: 2009, *Astronomy & Astrophysics*, 502, 267-282
183. “First Stars. XII. Abundances in extremely metal-poor turn-off stars, and comparison with the giants”, P. Bonifacio, M. Spite, R. Cayrel, V. Hill, F. Spite, P. François, B. Plez, H.-G. Ludwig, E. Caffau, P. Molaro, E. Depagne, J. Andersen, B. Barbuy, T.C. Beers, B. Nordström, F. Primas: 2009, *Astronomy & Astrophysics*, 501, 519-530
184. “Further probing the nature of FSR 1767”, C. Bonatto, E. Bica, S. Ortolani, B. Barbuy: 2009, *Monthly Notices of the Royal Astronomical Society*, 397, 1032-1040
185. “Pfleiderer 2: Identification of a new globular cluster in the Galaxy”, S.

- Ortolani, C. Bonatto, E. Bica, B. Barbuy: 2009, *Astronomical Journal*, 138, 889-894
186. “Chemical composition and kinematics of Galactic disk stars (commentary on The chemical evolution of the Galactic disk.1. Analysis and results” by Edvardsson et al. in *A&A* 275, 101 (1993)”, B. Barbuy, R. Cayrel, 2009, *A&A*, 500, 443
 187. “Li-rich RGB stars in the Galactic bulge”, O.A. Gonzalez, M. Zoccali, L. Monaco, V. Hill, S. Cassisi, D. Minniti, A. Renzini, B. Barbuy, S. Ortolani, A. Gómez: 2009, *Astronomy & Astrophysics*, 508, 289-295
 188. “VLT-FLAMES analysis of 8 giants in the bulge metal-poor globular cluster NGC 6522”, B. Barbuy, M. Zoccali, S. Ortolani, V. Hill, D. Minniti, A. Renzini, E. Bica, A. Gómez: 2009, *Astronomy & Astrophysics*, 507, 405-415 (ArXiv 0908.3603)
 189. “Chemical abundances of 11 bulge stars from high-resolution, near-IR spectra”, N. Ryde, B. Gustafsson, B. Edvardsson, J. Meléndez, A. Alves-Brito, M. Asplund, B. Barbuy, V. Hill, H.U. Käufl, A. Lecureur, D. Minniti, S. Ortolani, A. Renzini, M. Zoccali: 2010, *Astronomy & Astrophysics*, 509, A20-30
 190. “Age and metallicity of globular clusters in the Small Magellanic Clouds from integrated spectroscopy”, B. Dias, P. Coelho, B. Barbuy, T. Idiart, L. Kerber: 2010, *Astronomy & Astrophysics*, 520, A85-95
 191. “Vista Variables in the Via Lactea. A public IR variability survey of the Milky Way”, D. Minniti, P. Lucas, J.P. Emerson, A.V. Ahumada, M.V. Alonso, J.I. Arias, R.H. Barbá, B. Barbuy et al. (+ 53 co-autores): 2010, *New Astronomy*, 15, 433-443
 192. “Probing the LMC age gap at intermediate cluster masses”, E. Balbinot, B.X. Santiago, L.O. Kerber, B. Barbuy, B. Dias: 2010, *Monthly Notices of the Royal Astronomical Society*, 404, 1625-1632
 193. “Open cluster survival within the solar circle: Teutsch 145 and Teutsch 146”, C. Bonatto, S. Ortolani, B. Barbuy, E. Bica: 2010, *Monthly Notices of the Royal Astronomical Society*, 402, 1685-1692
 194. “Insights on the Milky Way bulge formation from the correlations between kinematics and metallicity”, C. Babusiaux, A. Gómez, V. Hill, M. Zoccali, F. Arenou, R. Fux, A. Lecureur, M. Schulteis, B. Barbuy, D. Minniti, S. Ortolani: 2010, *Astronomy & Astrophysics*, 519, 77-86

195. "Probing the Galactic thick disk - halo connection", D. Katz, C. Soubiran, R. Cayrel, B. Barbuy, E. Friel, O. Bienaymé, M.-N. Perrin: 2011, *Astronomy & Astrophysics*, 525, A90-104
196. "First Stars. XIII. Two extremely metal-poor RR Lyrae stars" C.J. Hansen, B. Nordström, P. Bonifacio, M. Spite, J. Andersen, T.C. Beers, R. Cayrel, F. Spite, P. Molaro, B. Barbuy, E. Depagne, P. François, V. Hill, B. Plez, T. Sivarani: 2011, *Astronomy & Astrophysics*, 527, A65-80
197. "First Stars. XIV. Sulphur abundances in extremeley metal-poor stars" M. Spite, E. Caffau, S.M. Andrievsky, S.A. Korotin, E. Depagne, F. Spite, P. Bonifacio, H.-G. Ludwig, R. Cayrel, P. François, V. Hill, B. Plez, J. Andersen, B. Barbuy, T.C. Beers, P. Molaro, B. Nordström, F. Primas: 2011, *Astronomy & Astrophysics*, 528, A9-16
198. "Discovery of VVV CL001. A Low-Mass Globular Cluster Next to UKS 1 in the Direction of the Galactic Bulge", D. Minniti, M. Hempel, I. Toledo, V.D. Ivanov, J. Alonso-García, R. Saito, R., M. Catelan, D. Geisler, A. Jordán, J. Borissova, and 8 coauthors: 2011, *Astronomy & Astrophysics*, 527, A81-84
199. "Alpha element abundance distribution and gradients in the Milky Way bulge from FLAMES-GIRAFFE spectra of 650 RGB stars", O.A. Gonzalez, M. Rejkuba, M. Zoccali, V. Hill, G. Battaglia, D. Minniti, B. Barbuy, A. Renzini, A. Gómez, S. Ortolani: 2011, *Astronomy & Astrophysics*, 530, A54-65 (ArXiv 1103.6104)
200. "Imprints of fast-rotating massive stars in the Galactic bulge", C. Chiappini, U. Frischknecht, G. Meynet, R. Hirschi, B. Barbuy, M. Pignatari, T. Decressin, A. Maeder: 2011, *Nature*, 472, 454-457
201. "A fossil bulge globular cluster revealed by VLT multi-conjugate adaptive optics", S. Ortolani, B. Barbuy, Y. Momany, I. Saviane, E. Bica, L. Jilkova, G. Salerno, B. Jungwiert: 2011, *The Astrophysical Journal*, 737, 31-39
202. "First Stars. XV. Third-peak r-process element and actinide abundances in the uranium-rich star CS 31082-001", B. Barbuy, M. Spite, V. Hill, F. Primas, B. Plez, R. Cayrel, F. Spite, S. Wanajo, C. Siqueira Mello Jr., J. Andersen, B. Nordström, T.C. Beers, P. Bonifacio, P. François, P. Molaro: 2011, *Astronomy & Astrophysics*, 534, A60-A71
203. "The metallicity distribution of bulge clump giants in Baade's Window", V. Hill, A. Lecureur, A. Gómez, M. Zoccali, M. Schultheis, C. Babusiaux, F. Royer, B. Barbuy, F. Arenou, D. Minniti, S. Ortolani: 2011, *Astronomy & Astrophysics*, 534, A80-99
204. "Detailed analysis of old very metal-rich dwarf stars in the solar neighbourhood" M. Trevisan, B. Barbuy, K. Eriksson, B. Gustafsson, M. Grenon, L. Pompéia: 2011, *Astronomy & Astrophysics*, 535, A42-A68

205. “VVV 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 Láctea”, R.K. Saito, M. Hempel, D. Minniti, + 106 autores: 2012, *Astronomy & Astrophysics*, 537, A107
206. “Homogeneous metallicities and radial velocities for Galactic globular clusters. First CaT metallicities for twenty clusters”, I. Saviane, G. Da Costa, E. Held, V. Sommariva, M. Gullieuszik, B. Barbuy, S. Ortolani: 2012, *Astronomy & Astrophysics*, 540, A27
207. “Milky Way Demographics with the VVV Survey. I. The 84 Million Star Colour-Magnitude Diagram of the Galactic Bulge”, R.K. Saito, D. Minniti, B. Dias, M. Hempel, M. Rejkuba, I. Alonso-García, B. Barbuy, M. Catélan, J.P. Emerson, G.A. Gonzalez, P.W. Lucas, M. Zoccali: 2012, *Astronomy & Astrophysics*, 544, 147
208. “Kronberger 49: a new low-mass globular cluster or an unprecedented bulge window?” S. Ortolani, C. Bonatto, E. Bica, B. Barbuy, R. Saito: 2012, *Astronomical Journal*, 144, 147
209. “Origin of the heavy elements in HD 140283. Measurement of europium abundance” C. Siqueira Mello, B. Barbuy, M. Spite, F. Spite: 2012, *Astronomy & Astrophysics*, 548, A42-50
210. “First Stars. XVI. HST/STIS abundances of heavy elements in the uranium-rich star CS 31082-001”, C. Siqueira Mello Jr., M. Spite, B. Barbuy, F. Spite, E. Caffau, V. Hill, F. Primas, B. Plez, R. Cayrel, S. Wanajo, J. Andersen, B. Nordström, T.C. Beers, P. Bonifacio, P. François, P. Molaro: 2013, *Astronomy & Astrophysics*, 550, A122-138
211. “SEGUE 3: the youngest globular cluster in the outer halo”, S. Ortolani, E. Bica, B. Barbuy: 2013, *MNRAS*, 433, 1966
212. “Manganese abundances in Galactic bulge red giants”, B. Barbuy, V. Hill, M. Zoccali, D. Minniti, A. Renzini, S. Ortolani, A. Gómez, M. Trevisan, N. Dutra: 2013, *Astronomy & Astrophysics*, 559, A5
213. “Deep imaging of Vir Z: not a nearby ultrafaint dwarf galaxy, but a distant compact group of galaxies”, B. Barbuy, E. Bica, S. Ortolani, A. Lopes-Souza: 2013, *Astronomy & Astrophysics (Research Note)*, 559, A61
214. “Self-consistent physical parameters for 5 intermediate-age SMC stellar clusters from CMD modelling”, B. Dias, L.O. Kerber, B. Barbuy, B. Santiago, E. Balbinot, S. Ortolani: 2014, *Astronomy & Astrophysics*, 561, A106
215. “High-resolution abundance analysis of very metal-poor r-I stars”, C. Siqueira-Mello, V. Hill, B. Barbuy, M. Spite, F. Spite, T.C. Beers, E. Caffau, P. Bonifacio, R. Cayrel, P. François, H. Schatz, S. Wanajo: 2014, *Astronomy & Astrophysics*, 561, A106

216. “CUBES: Cassegrain U-Band Brazil-ESO Spectrograph”, B. Barbuy, V. Bawden Macanhan, P. Bristow, B. Castilho, H. Dekker, B. Delabre, M. Diaz, C. Gneiding, F. Kerber, H. Kuntschner, G. La Mura, W. Maciel, J. Meléndez, L. Pasquini, C.B. Pereira, P. Petitjean, R. Reiss, C. Siqueira-Mello, R. Smiljanic, J. Vernet: 2014, *Astrophysics & Space Science*, 354, 191
217. “High resolution abundance analysis of red giants in the bulge globular cluster NGC 6522”, B. Barbuy, C. Chiappini, E. Cantelli, E. Depagne, M. Pignatari, R. Hirschi, G. Cescutti, S. Ortolani, V. Hill, M. Zoccali, D. Minniti, M. Trevisan, E. Bica, A. Gómez: 2014, *Astronomy & Astrophysics*, 570, A76
218. “Heavy element abundances in very old and metal-rich dwarf stars” M. Trevisan, B. Barbuy: 2014, *Astronomy & Astrophysics*, 570, A22
219. “FORS2/VLT survey of Milky Way globular clusters. I. Description of the method for derivation of metal abundances and application to NGC 6528, NGC 6553, M71, NGC 6558, NGC 6426 and Terzan 8”, B. Dias, B. Barbuy, I. Saviane, E.V. Held, G.S. Da Costa, S. Ortolani, S. Vasquez, M. Gullieuszik, D. Katz: 2015, *Astronomy & Astrophysics*, 573, A13
220. “The Hubble Space Telescope Legacy Survey of Galactic Globular Clusters. I. Overview of the Project and Detection of Multiple Stellar Populations” Piotto, G., Milone, A.P., Bedin, L.R., Anderson, J., Aparicio, A., Barbuy, B., Bellini, A., Brown, T.M., Cassisi, S., Cool, A., Cunial, A., Dalessandro, E. D’Antona, F., Ferraro, F., Hidalgo, S., King, I.R., Lanzoni, B., Marino, A.F., Monelli, M., Nardiello, D., Ortolani, S., Renzini, A., Salaris, M., Sarajedini, A., van der Marel, R.P., Vesperini, E., Zoccali, M. 2015, *Astronomical Journal*, 149, 91
221. “Proper motion and kinematics of selected bulge globular clusters”, L. Rossi, S. Ortolani, E. Bica, B. Barbuy, A. Bonfanti: 2015, *MNRAS*, 450, 3270
222. “Zinc abundances in field bulge giants: implications for DLAs”, B. Barbuy, C.R. da Silveira, A. Friaça, V. Hill, M. Zoccali, D. Minniti, A. Renzini, S. Ortolani, A. Gómez: 2015, *Astronomy & Astrophysics*, 580, 44
223. “High-resolution abundance analysis of HD 140283”, C. Siqueira-Mello, S. Andrievsky, B. Barbuy, M. Spite, F. Spite, S.A., Korotin: 2015, *Astronomy & Astrophysics*, 584, A86 (19)
224. “Bridge over troubled gas: clusters and associations under the SMC and LMC tidal stresses”, E. Bica, B. Santiago, C. Bonatto, R. Dias, L. Kerber, B. Dias, B. Barbuy, E. Balbinot: 2015, *MNRAS*, 453, 3190
225. “Globular cluster formation: The Hubble Space Telescope Legacy Survey of Galactic Globular Clusters. V. Constraints on formation scenarios”, A. Renzini, F. D’Antona, S. Cassisi, I. King, P. Ventura, E. Vesperini, J. Anderson, L.R. Bedin,

- A. Bellini, T. Brown, G. Piotto, R. van der Marel, B. Barbuy, E. Dalessandro, S. Hidalgo, A. Marino, S. Ortolani, M. Salaris, A. Sarajedini, M. Zoccali: 2015, *MNRAS*, 454, 4197
226. “Heavy elements Ba, La, Ce, Nd and Eu in field bulge giants” M. van der Swaelmen, B. Barbuy, V. Hill, M. Zoccali, D. Minniti, S. Ortolani, A. Gómez: 2016, *Astronomy & Astrophysics*, 586, A1
227. “FORS2/VLT survey of Milky Way globular clusters. II. Fe and Mg abundances of 51 Milky Way globular clusters and consequences on cluster and galaxy formation evolution”, B. Dias, B. Barbuy, I. Saviane, E.V. Held, G.S. da Costa, S. Ortolani, M. Gullieuszik, S. Vasquez: 2016, *Astronomy & Astrophysics*, 590, A9
228. “Looking for imprints from the first stellar generation in metal-poor bulge field stars”, C. Siqueira-Mello, B. Barbuy, C. Chiappini, K. Freeman, M. Ness, E. Depagne, M. Pignatari, R. Hirschi, U. Frischknecht, G. Meynet, A. Maeder, E. Cantelli: 2016, *Astronomy & Astrophysics*, 593, 79
229. “High-resolution abundance analysis of red giants in the metal-poor bulge globular cluster HP 1”, B. Barbuy, E. Cantelli, A. Vemado, H. Ernandes, S. Ortolani, I. Saviane, E. Bica, D. Minniti, B. Dias, Y. Momany, V. Hill, M. Zoccali, C. Siqueira-Mello: 2016, *Astronomy & Astrophysics*, 591, 53
230. “SMC West halo: a slice of the galaxy being tidally stripped: Star clusters trace age and metallicity gradients”, B. Dias, L. Kerber, B. Barbuy, E. Bica, S. Ortolani, E. Balbinot, 2015, *Astronomy & Astrophysics*, 591, 11
231. “Globular clusters of the Galactic Bulge”, E. Bica, S. Ortolani, B. Barbuy: 2016, *PASA*, 33, 28
232. “Editorial: The Galactic Bulge”, B. Barbuy: 2016, *PASA*, 33, 21
233. “The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. IX. The Atlas of Multiple Stellar Populations”, A. Milone, G. Piotto, A. Renzini, A.F. Marino, L.R. Bedin, E. Vesperini, F. D’Antona, D. Nardiello, J. Anderson, I.R. King, D. Yong, A. Bellini, A. Aparicio, B. Barbuy, T.M. Brown, S. Cassisi, S. Ortolani, M. Salaris, A. Sarajedini, R.P. van der Marel: 2017, *MNRAS*, 464, 3636
234. “The Thirteenth Data Release of the Sloan Digital Sky Survey: First Spectroscopic Data from the SDSS-IV Survey MAPPING Nearby Galaxies at Apache Point Observatory”, SDSS Collaboration; Albareti, Franco D.; Allende Prieto, Carlos; Almeida, Andres; Anders, Friedrich; Anderson, Scott; Andrews, Brett H.; Aragon-Salamanca, Alfonso; Argudo-Fernandez, Maria; Armengaud, Eric; and 334 coauthors: 2017, *The Astrophysical Journal Supplement*, 233, 25, 2016arXiv160802013S

235. “Evolution of the alpha-elements O, Mg, Si, Ca, and Ti in the Galactic bulge using a chemodynamical evolution model”, A.C.S. Friaça, B. Barbuy: 2017, *Astronomy & Astrophysics*, 598, 121
236. “Abundances of the light elements from UV (HST) and red (ESO) spectra in the very old star HD 84937”, M. Spite, R. Peterson, A.J. Gallagher, B. Barbuy, F. Spite: 2017, *Astronomy & Astrophysics*, 600, 26
237. “VVV-CL005. A new globular cluster in the Milky Way discovered using RR Lyrae”, D. Minniti, T. Palma, M. Hempel, I. Dekany, M. Rejkuba, J. Pullen, J. Alonso-Garcia, R. Barba, B. Barbuy, J. Borissova, M. Catelan, J. Carballo-Bello, J.J. Claria, R. Contretas-Ramos, R. Cohen, D. Geisler, O. A. Gonzalez, F. Gran, G. Hagdu, M. Irwin, V.D. Ivanov, R. Kurtev, P. W. Lucas, D. Majaess, F. Mauro, C. Moni-Bidin, C. Navarrete, S. Ramires-Alegria, R.K. Saito, E. Valenti, M. Zoccali, 2017, *A&A*, 838, L14
238. “PLATO as it is: a cornerstone mission for Galactic archaeology”, A. Miglio, C. Chiappini, B. Mosser, G.R. Davies, K. Freeman, L. Girardi, P. Jofré, et al. 2017, *Astronomische Nachrichten*, 338, 644
239. “Abundance patterns of the “light” neutron-capture elements in very and extremely metal-poor stars” F. Spite, M. Spite, B. Barbuy, P. Bonifacio, E. Caffau, P. François, 2018, *Astronomy & Astrophysics*, 611, A30
240. “The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters - XII. The RGB Bumps of multiple stellar populations, E. P. Lagioia, A. P. Milone, A. F. Marino, S. Cassisi, A. J. Aparicio, G. Piotto, J. Anderson, B. Barbuy, L. R. Bedin, A. Bellini, T. Brown, F. D’Antona, D. Nardiello, S. Ortolani, A. Pietrinferni, A. Renzini, M. Salaris, A. Sarajedini, R. van der Marel, E. Vesperini: 2018, *MNRAS*, 475, 4088
241. “HST proper motion cleaned color-magnitude diagrams of the bulge globular clusters NGC 6522 and NGC 6626 (M28)” L. Kerber, D. Nardiello, S. Ortolani, B. Barbuy, E. Bica, S. Cassisi, M. Libralato: 2018, *The Astrophysical Journal*, 853, 15
242. “Chemical analysis of eight giant stars of the globular cluster NGC 6366”, A. Puls, A. Alves-Brito, F. Campos, B. Barbuy, B. Dias: 2018, *Monthly Notices of the Royal Astronomical Society*, 476, 690
243. “Iron-peak elements: Sc, V, Mn, Cu, and Zn abundances in bulge globular clusters”, H. Ernandes, B. Barbuy, A. Alves-Brito, A. Friaça, C. Siqueira-Mello, D.M. Allen”: 2018, *Astronomy & Astrophysics*, 616, A18
244. “Orbits of selected globular clusters in the Galactic bulge”, A. Pérez-Villegas, L. Rossi, S. Ortolani, S. Casotto, B. Barbuy, E. Bica: 2018, *PASA*, 35, 21

245. “Chemodynamical Evolution of the Galactic Bulge”, B. Barbuy, C. Chiappini, O. Gerhard. 2018, *Annual Reviews of Astronomy and Astrophysics*, 56, 223
246. “Oxygen and Zinc abundances in 417 bulge field giants”, C.R. da Silveira, B. Barbuy, A. Friaça, M. Zoccali, O.A. Gonzalez, M. Rafelski, V. Hill, D. Minniti, A. Renzini, S. Ortolani, A. Gómez: 2018, *Astronomy & Astrophysics*, 614, A149. . .
247. “The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. XVI. The helium abundance of multiple populations”, A.P. Milone, A.F. Marino, A. Renzini, F.D’Antona, J. Anderson, B. Barbuy, L.R. Bedin, A. Bellini, T.M. Brown, S. Cassisi, G. Cordoni, E.P. Lagioia, D. Nardiello, S. Ortolani, G. Piotto, A. Sarajedini, M. Tailo, R.P. van der Marel, E. Vesperini: 2018, *MNRAS*, 481, 5098
248. Homogeneous metallicities and radial velocities for Galactic globular clusters. II. New CaT metallicities for 28 distant and reddened globular clusters, S. Vásquez, I. Saviane, E.V. Held, G.S. da Costa, B. Dias, M. Gullieuszik, B. Barbuy, S. Ortolani, M. Zoccali: 2018, *Astronomy & Astrophysics*, 619, A13
249. “High-resolution abundance analysis of four red giants in the globular cluster NGC 6558”, B. Barbuy, L. Muniz, S. Ortolani, H. Ernandes, B. Dias, I. Saviane, L. Kerber, E. Bica, A. Perez-Villegas, L. Rossi, E.V. Held: 2018, *Astronomy & Astrophysics*, 619, A178
250. “Calculation of molecular lines in stellar atmospheres”, B. Barbuy, J. Trevisan, A. de Almeida: 2018, *PASA*, 35, 46
251. “Halo intruders in the Galactic bulge revealed by HST and Gaia: the globular clusters Terzan 10 and Djorgovski 1” S. Ortolani, D. Nardiello, A. Pérez-Villegas, E. Bica, B. Barbuy: 2019, *Astronomy & Astrophysics*, 622, A94
252. “A deep near-infrared view of a fossil record in the Galactic Bulge: the globular cluster HP 1”, L. Kerber, M. Libralato, S.O. Souza, R.A.P. Oliveira, S. Ortolani, A. Pérez-Villegas, B. Barbuy, B. Dias, E. Bica, D. Nardiello: 2019, *MNRAS*, 484, 5530
253. “The VISCACHA survey - I. Overview and First Results” F.F.S. Maia, B. Dias, J.F.C. Santos, L.O. Kerber, E. Bica, A. E. Piatti, B. Barbuy, B. Quint, L. Fraga, D. Sanmartin, M.S. Angelo, J.A. Hernandez-Jimenez, O. J. Katime Santrich, R.A.P. Oliveira, A. Pérez-Villegas, S.O. Souza, R.G. Vieira, P. Westera: 2019, *MNRAS*, 484, 5702
254. “Another relic bulge globular cluster: ESO 456-SC38 (Djorgovski 2)” E. Held, S. Ortolani, D. Nardiello, S.O. Souza, B. Barbuy, A. Pérez-Villegas, S. Cassisi, E. Bica, Y. Momany, I. Saviane: 2019, *Astronomy & Astrophysics*, 627, A145
255. “Integrated spectra of moderately metal-poor bulge globular clusters”, T.

- Moura, M. Trevisan, B. Barbuy, S. Rossi: 2019, *The Astrophysical Journal*, 885, 28
256. “A MUSE study of the inner bulge globular cluster Terzan 9: a fossil record in the Galaxy”, H. Ernandes, B. Dias, B. Barbuy, S. Kamann, S. Ortolani, E. Cantelli, E. Bica, L. Rossi: 2019, *Astronomy & Astrophysics*, 632, A103
 257. “Globular clusters in the inner Galaxy classified from dynamical orbital criteria”, A. Pérez-Villegas, B. Barbuy, L. Kerber, S. Ortolani, S.O. Souza, E. Bica, 2020, *MNRAS*, 491, 3251
 258. “Self-consistent analysis of stellar clusters: An application to HST data of the halo globular cluster NGC 6752”, S.O. Souza, L.O. Kerber, B. Barbuy, A. Pérez-Villegas, R.A.P. Oliveira, D. Nardiello: 2020, *The Astrophysical Journal*, 890, 38
 259. “An updated SMC and Magellanic Bridge Catalog of star clusters, associations and related objects” E. Bica, P. Westera, L.O. Kerber, B. Dias, F.F.S. Maia, J.F.C. Santos Jr., B. Barbuy, R.A.P. Oliveira, 2020, *Astronomical Journal*, 159, 82
 260. “The Hubble Space Telescope UV Legacy Survey of Galactic Globular Clusters. XX. Ages of single and multiple stellar populations in seven globular clusters” R.A.P. Oliveira, S.O. de Souza, L.O. Kerber, B. Barbuy, S. Ortolani, G. Pionotto, D. Nardiello, A. Pérez-Villegas, F.F.S. Maia, E. Bica, S. Cassisi, E. Lagioia, A.P. Milone, J. Anderson, A. Aparicio, L.R. Bedin, T.M. Brown, E. Dalessandro, F. D’Antona, S. Hidalgo, I.R. King, B. Lanzoni, M. Libralato, A.F. Marino, A. Pietrinferni, A. Renzini, M. Salaris, A. Sarajedini, R. van der Marel, E. Vesperini: 2020, *The Astrophysical Journal*, 891, 37
 261. “Trans-iron elements Ge, As, Se, and heavier elements in the dwarf metal-poor stars HD19445, HD84937, HD94028, HD140283 and HD160617” R. Peterson, M. Spite, B. Barbuy: 2020, *Astronomy & Astrophysics*, 638, A64
 262. “From the bulge to the outer disk: StarHorse stellar parameters, distances, and extinctions for stars in APOGEE DR16 and other spectroscopic surveys”, A.B.A. Queiroz, F. Anders, C. Chiappini, A. Khalatyan, B.X. Santiago, M. Steinmetz, M. Valentini, A. Miglio, B. Barbuy, I. Minchev, T.C. Beers, J.G. Fernández-Trincado, D.A. González-Hernández, C. Nitschelm, M. Schultheis, G. Stringfellow, O. Zamora, O. + APOGEE, 2020, *A&A*, 638, A76
 263. “Cobalt and Copper abundances in 56 Galactic bulge red giants”, H. Ernandes, B. Barbuy, A. Friaça, V. Hill, M. Zoccali, D. Minniti, A. Renzini, S. Ortolani, 2020, *A&A*, 640, A89
 264. “Abundances from integrated spectra of 47 Tucanae (NGC 104)”, C. Rennó, B. Barbuy, T. Moura, M. Trevisan: 2020, *MNRAS*, 498, 5834

265. “VVVX-Gaia Discovery of a Low Luminosity Globular Cluster in the Milky Way Disk”, Garro, E. R., Minniti, D., Gómez, M., Alonso-García, J., Barbá, R. H., Barbuy, B., Clariá, J. J., Chené, A. N., Dias, B., Hempel, M., Ivanov, V. D., Lucas, P. W., Majaess, D., Mauro, F., Moni Bidin, C., Palma, T., Pullen, J. B., Saito, R. K., Smith, L., Surot, F., Ramirez, A.S., Rejkuba, M., Ripepi, V.: 2020, *A&A*, 642, L19, 2020ArXiv:201002113
266. “Discovery of a large population of Nitrogen-Enhanced stars in the Magellanic Clouds”, Fernández-Trincado, J. G., Beers, Timothy C.; Minniti, Dante; Carigi, Leticia; Barbuy, Beatriz; Placco, Vinicius M.; Moni Bidin, Christian; Villanova, Sandro; Roman-Lopes, Alexandre; Nitschelm, C. 2020, *The Astrophysical Journal Letters*, 903, L17 2020arXiv201000024F
267. “The enigmatic globular cluster UKS 1 obscured by the bulge: H-band discovery of nitrogen-enhanced stars”, Fernández-Trincado, J. G.; Minniti, Dante; Beers, Timothy C.; Villanova, Sandro; Geisler, Doug; Souza, Stefano O.; Smith, Leigh C.; Placco, Vinicius M.; Vieira, Katherine; Prez-Villegas, Angeles; Barbuy, Beatriz; Alves-Brito, Alan; Moni Bidin, Christian; Alonso-García, Javier; Tang, Baitian; Palma, Tali, 2020, *Astronomy & Astrophysics*, 643, A145
268. “Gemini Phoenix H-band analysis of the globular cluster AL 3”, B. Barbuy, H. Erandes, S.O. Souza, R. Razera, T.C. Moura, J. Meléndez, A. Pérez-Villegas, M. Zoccali, D. Minniti, B. Dias, S. Ortolani, E. Bica, J. Trevisan: 2021, *Astronomy & Astrophysics*, 648, A16
269. “The Milky Way’s bar and bulge revealed by Gaia DR2 and APOGEE DR16”, A.B.A. Queiroz, C. Chiappini, A. Pérez-Villegas, A. Khalatyan, F. Anders, B. Barbuy, B.X. Santiago, M. Steinmetz, K. Cunha, M. Schultheis, I. Minchev, S.R. Majewski, + APOGEE: 2021, *Astronomy & Astrophysics*, 656, A156,
270. “CAPOS: the bulge Cluster APOgee Survey. I. Overview and Initial ASP-CAP results”, D. Geisler, S. Villanova, J.E. O’Connell, R. Cohen, C. Moni Bidin, J.G. Fernández-Trincado, C. Munoz, D. Minniti, M. Zoccali, A. Rojas-Arriagada, R. Contreras, M. Catelan, F. Mauro, C. Cortés, C. E. Ferreira Lopes, A. Arentsen, E. Starkenburg, N. F. Martin, B. Tang, C. Parisi, J. Alonso-García, F. Gran, K. Cunha, V. Smith, L. Monaco, A. Monachesi, L. Henao, D. González-Díaz, R. E. Miranda, Y. Reinartz, T. A. Santander, 2021, *Astronomy & Astrophysics*, 652, A157
271. “CAPOS: the bulge Cluster APOgee Survey II. The Intriguing ”Sequoia” Globular Cluster FSR 1758”, M. Romero-Colmenares, J. G. Fernández-Trincado, D. Geisler, S. O. Souza, S. Villanova, P. Longa-Peña, D. Minniti, T. C. Beers, C. Moni-Bidin, A. Pérez-Villegas, E. Moreno, E. R. Garro, I. Ibaeza, L. Henao, B. Barbuy, J. Alonso-García, R. E. Cohen, C. Muñoz: 2021, *Astronomy & Astrophysics*, 652, A158
272. “The VISCACHA survey. III. Star clusters counterpart of the Magellanic Bridge and Counter-Bridge in 8D”, Dias, B., Angelo, M. S., Oliveira, R. A. P., Maia, F., Parisi, M. C., De Bortoli, B., Souza, S. O., Katime Santrich, O. J., Bassino, L. P., Barbuy, B., Bica,

E., Geisler, D., Kerber, L., Pérez-Villegas, A., Quint, B., Sanmartim, D., Santos, J. F. C., Westera, P.: 2021, *Astronomy & Astrophysics*, 647, L9

273. “APOGEE discovery of a chemically atypical star disrupted from NGC 6723 and captured by the Milky Way bulge”, Fernández-Trincado, J.G., Beers, T.C., Minniti, D., Carigi, L., Placco, V.M., Chun, S.-H., Lane, R.R., Geisler, D., Villanova, S., Souza, S.O., Barbuy, B., Pérez-Villegas, A., Chiappini, C., Queiroz, A.B.A., Tang, B., Alonso-García, J., Piatti, A.E., Palma, T., Alves-Brito, A., Moni Bidin, C., Roman-Lopes, A., Muñoz, R.R., Singh, H.P., Kundu, R., Chaves-Velasquez, L., Romero-Colmenares, M., Longa-Peña, P., Soto, M., Vieira, K.: 2021, *Astronomy & Astrophysics*, 647, A64

274. “VVV CL001: Likely the Most Metal-poor Surviving Globular Cluster in the Inner Galaxy”, Fernández-Trincado, J.G., Minniti, D., Souza, S.O., Beers, T.C., Geisler, D., Moni Bidin, C., Villanova, S., Majewski, S.R., Barbuy, B., Pérez-Villegas, A., Henao, L., Romero-Colmenares, M., Roman-Lopes, A., Lane, R.R.: 2021, *ApJ*, 908, L42

275. “APOGEE spectroscopic evidence for chemical anomalies in dwarf galaxies: The case of M 54 and Sagittarius”, Fernández-Trincado, J.G., Beers, T.C., Minniti, D., Moni Bidin, C., Barbuy, B., Villanova, S., Geisler, D., Lane, R.R., Roman-Lopes, A., Bizyaev, D.: 2021, *A&A*, 648, A70

276. “APOGEE-2S Discovery of Light- and Heavy-element Abundance Correlations in the Bulge Globular Cluster NGC 6380”, Fernández-Trincado, J.G., Beers, T.C., Barbuy, B., Mészáros, S., Minniti, D., Smith, V.V., Cunha, K., Villanova, S., Geisler, D., Majewski, S.R., Carigi, L., Tang, B., Moni Bidi, C., Vieira, K. 2021, *ApJ*, 918, L9

277. “UVES analysis of red giants in the bulge globular cluster NGC 6522”, Barbuy B., Cantelli, E., Muniz, L., Souza, S.O., Chiappini, C., Hirschi, R., Cescutti, G., Pignatari, M., Ortolani, S., Kerber, L., Maia, F.F.S., Bica, E. Depagne, E.: 2021, *Astronomy & Astrophysics*, 654, A29

278. “Photo-chemo-dynamical analysis and the origin of the bulge globular cluster Palomar 6”, Souza, S.O., Valentini, M., Barbuy, B., Pérez-Villegas, A., Chiappini, C., Ortolani, S., Nardiello, D., Dias, B., Anders, F., Bica, E.: 2021, *Astronomy & Astrophysics*, 656, A78

279. “ $^{12}\text{C}/^{13}\text{C}$ ratio and CNO abundances in the classical very old metal-poor dwarf HD 140283”, M. Spite, F. Spite, B. Barbuy: 2021, *Astronomy & Astrophysics*, 652, A97

280. “APOGEE-2 Discovery of a Large Population of Relatively High-metallicity Globular Cluster Debris”, Fernández-Trincado, J. G., Beers, T. C., Queiroz, A. B. A., Chiappini, C., Minniti, D., Barbuy, B., Majewski, S.R., Ortigoza-Urdaneta, M., Moni Bidin, C., Robin, A. C., Moreno, E., Chaves-Velasquez, L., Villanova, S., Lane, Richard R., Pan, K., Bizyaev, D. 2021, *ApJ*, 918, L37

281. “FSR 1776: a new globular cluster in the Galactic bulge ?”, B. Dias, T.

- Palma, D. Minniti, J.G. Fernández-Trincado, J. Alonso-García, B. Barbuy, J.J. Clariá, M. Gomez, R.K. Saito: 2022, *Astronomy & Astrophysics*, 657, A67
282. “The VISCACHA survey IV. The SMC West Halo in 8D”, B. Dias, M. C. Parisi, M. Angelo, F. Maia, R. A. P. Oliveira, S. O. Souza, L. O. Kerber, J. F. C. Santos Jr., A. Prez-Villegas, Sanmartin, D., Quint, B., Fraga, L., Barbuy, B., Bica, E., Santrich, O.J. Katime, Hernandez-Jimenez, J.A., Geisler, D., Minniti, D., De Bortoli, B.J., Bassino, L.P. 2022, *Monthly Notices of the Royal Astronomical Society*, 512, 4334
283. “Precise distances from OGLE-IV member RR Lyrae stars in six bulge globular clusters”, Oliveira, R.A.P., Ortolani, S., Barbuy, B., Kerber, L.O., Maia, F.F.S., Bica, E., Cassisi, S., Souza, S.O., Pérez-Villegas, A.: 2022, *Astronomy & Astrophysics*, 657, A123
284. “CAPOS: the bulge Cluster APOgee Survey III. Spectroscopic tomography of Tonantzintla 2”, J. G. Fernández-Trincado, S. Villanova, Geisler, D., Barbuy, B., D. Minniti, T. C. Beers, Mészáros, S., Tang, B., Cohen, R., C. Moni-Bidin, Garro, E.R., Baeza, I., Muñoz, C.: 2022, *Astronomy & Astrophysics*, 658, A116
285. “Be, V and Cu in the halo star CS 31082-001 from near-UV spectroscopy”, H. Ernandes, B. Barbuy, A. Friaça, V. Hill, M. Spite, F. Spite, B. V. Castilho, C. J. Evans: 2022, *MNRAS*, 510, 5362
286. “GALILEO: Galactic ArchaeoLogIcal ExcavatiOns I. A nearly complete census of APOGEE N-rich Giants Across the Milky Way”, J. G. Fernández-Trincado, T.C. Beers, B. Barbuy, D. Minniti, C. Chiappini, E.R. Garro, B. Tang, A. Alves-Brito, S. Villanova, Geisler, D., R. Lane, D.G. Diaz: 2022, *Astronomy & Astrophysics*, submitted - 2022arXiv220409702F
- . 287. “The Hubble Space Telescope UV Legacy Survey of Globular Clusters. XXIII. Proper-motion catalogs and internal kinematics of stellar clusters”, M. Libralato, 2022, *ApJ*, ...
- . 288. “Spectroscopic analysis of RGB stars in 10 open clusters”, S. de Oliveira-Cantanhêde, A. Alves-Brito, R. Smiljanic, B. Barbuy: 2022, *MNRAS*,
289. “Abundance analysis of 58 APOGEE genuine bulge stars”, R. Razera, T. Moura, H. Ernandes, B. Barbuy, A. Pérez-Villegas, S. O. Souza, C. Chiappini, A. Queiroz, F. Anders, 2022, *MNRAS*, ...
287. FLAMES: NGC 6355
- . “Minni09: a M67 sibling at the edge of the MW bar ?” B. Dias, D. Minniti, T. Palma, B. Barbuy: 2019, *The Astrophysical Journal*,