## Refereed articles

Total: 116 publications (incl. 17 first, 12 second, 16 third, and 16 fourth author articles)



- 116. Kowkabany, J., Ezzeddine, R., Charbonnel, C., Roederer, I. U., Li, Y., Hackshaw, Z., Beers, T. C., Frebel, A. Hansen, T. T., Holmbeck, E. M., Placco, V. M., Sakari, C. M. Discovery of an Ultra Lithium-rich Metal-Poor Red Giant star 2023, The Astrophysical Journal, submitted
- 115. Roederer, I. U., Pace, A., Placco, V. M., Caldwell, N., Koposov, S., Mateo, M., Olszewski, E., Walker, M. Abundance Analysis of Stars at Large Radius in the Sextans Dwarf Spheroidal Galaxy 2023, The Astrophysical Journal, vol. 954, 55 (ADS PDF)
- Almeida-Fernandes, F., Placco, V. M., Rocha-Pinto, H. J., Borges Fernandes, M., Limberg, G., Beraldo e Silva, L., Amarante, J., Perottoni, H. D., Overzier, R., Schoenell, W., Ribeiro, T., Kanaan, A., Mendes de Oliveira, C. Chemodynamical Properties and Ages of Metal-Poor Stars in S-PLUS
   Monthly Notices of the Royal Astronomical Society, vol. 523, 2934 (ADS PDF)
- 113. Abuchaim, Y., Perottoni, H. D., Rossi, S., Limberg, G., Pérez-Villegas, A., Santucci, R. M., Placco, V. M., Sales-Silva, J. V., Anders, F., Rocha-Pinto, H.

  The Chemodynamical Nature of the Triangulum-Andromeda Overdensity

  2023, The Astrophysical Journal, vol. 949, 48 (ADS PDF)
- 112. Quispe-Huaynasi, F., Roig, F., Daflon, S., Pereira, C., Placco, V. M., Jiménez-Esteban, F., Galindo-Guil, F., Alvarez-Candal, A., Alcaniz, J., Angulo, R., Cenarro, J., Cristóbal-Hornillos, D., Dupke, R., Ederoclite, A., Hernández-Monteagudo, C., López-Sanjuan, C., Marín-Franch, A., Moles, M., Sodré Jr., L., Vázquez Ramió, H. *J-PLUS: characterisation of high velocity stars in the second data release*2023, Monthly Notices of the Royal Astronomical Society, vol. 522, 3898 (ADS PDF)
- 111. Jeong, M., Lee, Y. S., Beers, T. C., Placco, V. M., Kim, Y. K., Koo, J.-R., Lee, H.-G., Yang, S.-C. Search for Extremely Metal-Poor Stars with GEMINI-N/GRACES I. Chemical-abundance Analysis 2023, The Astrophysical Journal, vol. 948, 38 (ADS PDF)
- 110. Zepeda, J., Beers, T. C., Placco, V. M., Shank, D., Gudin, D., Hirai, Y., Yoon, J., Mardini, M., Pifer, C., Catapano, T., Calagna, S. Chemo-Dynamically Tagged Groups of CEMP Stars in the Halo of the Milky Way. I. Untangling the Origins of CEMP-s and CEMP-no Stars
  2023, The Astrophysical Journal, vol. 947, 23 (ADS PDF)
- 109. Placco, V. M. & Stanghellini, L.
  US National Gemini Office in the NOIRLab era
  2023, Journal of Astronomical Telescopes, Instruments, and Systems, vol. 9, 7003 (ADS PDF)

- 108. Garro, E. R., Fernández-Trincado, J. G., Minniti, D., Moya, W. H., Palma, T., Beers, T. C., Placco, V. M., Barbuy, B., Sneden, C., Alves-Brito, A., Dias, B., Afşar, M., Frelijj, H., Lane, R. R. Gaia-IGRINS synergy: Orbits of Newly Identified Milky Way Star Clusters 2023, Astronomy & Astrophysics, vol. 669, A136 (ADS PDF)
- 107. Shank, D., Beers, T., Placco, V. M., Gudin, D., Catapano, T., Holmbeck, E. M., Ezzeddine, R., Roederer, I. U., Sakari, C. M., Frebel, A. Hansen, T. T.

  The R-Process Alliance: Chemo-Dynamically Tagged Groups II. Extended Sample of Halo r-Process-Enhanced Stars

  2023, The Astrophysical Journal, vol. 943, 23 (ADS PDF)
- 106. Yuan, H.-B., Yang, L., Cruz, P., Jiménez-Esteban, F., Daflon, S., Placco, V. M., Akras, S., Alfaro, E. J., Galarza, C. A., Gonçalves, D., Liu, J.-F., Cenarro, A., Marín-Franch, A., Varela, J., Ederoclite, A., López-Sanjuan, C., Abramo, R., Alcaniz, J., Benítez, N., Bonoli, S., Cristóbal-Hornillos, D., Dupke, R. A., Hernán-Caballero, A., Mendes de Oliveira, C., Moles, M., Sodré Jr., L. Vázquez Ramió, H., Taylor, K. The miniJPAS survey: stellar atmospheric parameters from 56 optical filters
  2023, Monthly Notices of the Royal Astronomical Society, vol. 518, 2018 (ADS PDF)
- 105. Schatz, H., Becerril Reyes, A. D., Best, A., Brown, E. F., Chatziioannou, K., Chipps, K. A., Deibel, C. M., Ezzeddine, R., Galloway, D. K., Hansen, C. J., Herwig, F., Ji, A. P., Lugaro, M., Meisel, Z., Norman, D., Read, J. S., Roberts, L. F., Spyrou, A., Tews, I., Timmes, F. X., Travaglio, C., Vassh, N., Abia, C., Adsley, P., Agarwal, S., Aliotta, M., Aoki, W., Arcones, A., Aryan, A., Bandyopadhyay, A., Banu, A., Bardayan, D. W., Barnes, J., Bauswein, A., Beers, T. C., Bishop, J., Boztepe, T., Côté, B., Caplan, M. E., Champagne, A. E., Clark, J. A., Couder, M., Couture, A., de Mink, S. E., Debnath, S., deBoer, R. J., den Hartogh, J., Denissenkov, P., Dexheimer, V., Dillmann, I., Escher, J. E., Famiano, M. A., Farmer, R., Fisher, R., Fröhlich, C., Frebel, A., Fryer, C., Fuller, G., Ganguly, A. K., Ghosh, S., Gibson, B., Gorda, T., Gourgouliatos, K., Graber, V., Gupta, M., Haxton, W., Heger, A., Hix, W. R., Ho, W.C., Holmbeck, E. M., Hood, A., Huth, S., Imbriani, G., Izzard, R., Jain, R., Jayatissa, H., Johnston, Z., Kajino, T., Kankainen, A., Kiss, G., Kwiatkowski, A., La Cognata, M., Laird, A., Lamia, L., Landry, P., Laplace, E., Launey, K., Leahy, D., Leckenby, G., Lennarz, A., Longfellow, B., Lovell, A., Lynch, W., Lyons, S., Maeda, K., Masha, E., Matei, C., Merc, J., Messer, B., Montes, F., Mukherjee, A., Mumpower, M., Neto, D., Nevins, B., Newton, W., Nguyen, L. Q., Nishikawa, K., Nishimura, N., Nunes, F., O'Connor, E., O'Shea, B., Ong, W-J., Pain, S., Paikos, M., Pignatari, M., Pizzone, R., Placco, V. M., et al. Horizons: Nuclear Astrophysics in the 2020s and Beyond **2022**, **Journal of Physics G**, vol. 49, 110502 (ADS — PDF)
- 104. Razera, R., Barbuy, B., Moura, T., Ernandes, H., Pérez-Villegas, A., Souza, S. O., Chiappini, C., Queiroz, A. B. A., Anders, F., Fernández-Trincado, J. G., Friaça, A. C. S., Cunha, K., Smith, V. V., Santiago, B. X., Schiavon, R. P., Valentini, M., Minniti, D., Schultheis, M., Geisler, D., Sobeck, J., Placco, V. M., Zoccali, M. Abundance analysis of 58 APOGEE metal-poor spheroid bulge stars
  2022, Monthly Notices of the Royal Astronomical Society, vol. 517, 4590 (ADS PDF)
- 103. Mardini, M., Frebel, A., Ezzeddine, R., Chiti, A., Meiron, Y., Ji, A., Placco, V. M., Roederer, I., Meléndez, J. The chemical abundance pattern of the extremely metal-poor thin disc star 2MASS J1808-5104 and its origins 2022, Monthly Notices of the Royal Astronomical Society, vol. 517, 3993 (ADS PDF)
- 102. Placco, V. M., Almeida-Fernandes, F., Arentsen, A., Lee, Y. S., Schoenell, W., Ribeiro, T., Kanaan, A. Mining S-PLUS for Metal-Poor Stars in the Milky Way
  2022, The Astrophysical Journal Supplement Series, vol. 262, 8 (ADS PDF)
- 101. Roederer, I. U., Cowan, J. J., Pignatari, M., Beers, T. C., Den Hartog, E. A., Ezzeddine, R., Frebel, A. Hansen, T. T., Holmbeck, E. M., Mumpower, M. R., Placco, V. M., Sakari, C. M., Surman, R., Vassh, N. The R-Process Alliance: Abundance Universality among Some Elements at and between the First and Second R-Process Peaks
  2022, The Astrophysical Journal, vol. 936, 84 (ADS PDF)

- 100. Arentsen, A., Placco, V. M., Lee, Y. S., Aguado, D. S., Martin, N. F., Starkenburg, E., Yoon, J. On the inconsistency of [C/Fe] abundances and the fractions of carbon-enhanced metal-poor stars among various stellar surveys
  - 2022, Monthly Notices of the Royal Astronomical Society, vol. 515, 4082 (ADS PDF)
- Shank, D., Komater, D., Beers, T., Placco, V. M., Huang, Y.
   Dynamically Tagged Groups of Metal-Poor Stars II. The Radial Velocity Experiment Data Release 6
   2022, The Astrophysical Journal Supplement Series, vol. 261, 19 (ADS PDF)
- Roederer, I. U., Lawler, J. E., Den Hartog, E. A., Placco, V. M., Surman, R., Beers, T. C., Ezzeddine, R., Frebel, A. Hansen, T. T., Hattori, K., Holmbeck, E. M., Sakari, C. M.
   *The R-Process Alliance: A Nearly Complete R-Process Abundance Template Derived from Ultraviolet Spectroscopy of the R-Process-Enhanced Metal-Poor Star HD 222925* 
   The Astrophysical Journal Supplement Series, vol. 260, 27 (ADS PDF)
- 97. Aoki, W., Beers, T. C., Honda, S., Ishikawa, H. T., Matsuno, T., Placco, V. M., Yoon, J., Harakawa, H., Hirano, T., Hodapp, K., Ishizuka, M., Jacobson, S., Kotani, T., Kudo, T., Kurokawa, Y., Kuzuhara, M., Nishikawa, J., Omiya, M., Serizawa, T., Tamura, M., Ueda, A., Vievard, S. Silicon and Strontium abundances of very metal-poor stars determined from near-infrared spectra 2022, Publications of the Astronomical Society of Japan, vol. 74, 273 (ADS PDF)
- Zepeda, J., Rasmussen, K. C., Beers, T., Placco, V. M., Huang, Y., Depagne, É.
   *Metal-Poor Stars Observed with the Southern African Large Telescope II. An Extended Sample* 2022, The Astrophysical Journal, vol. 927, 13 (ADS PDF)
- 95. Almeida-Fernandes, F., Sampedro, L., Herpich, F. R., Molino, A., Barbosa, C. E., Buzzo, M. L., Overzier, R. A., de Lima, E. V. R., Nakazono, L. M. I., Oliveira Schwarz, G. B., Perottoni, H. D., Bolutavicius, G. L., Gutiérrez-Soto, L. A., Santos-Silva, T., Vitorelli, A. Z., Werle, A., Whitten, D. D., Costa Duarte, M. V., Bom, C. R., Coelho, P., Sodré Jr., L., Placco, V. M., Teixeira, G. S. M., Alonso-García, J., Beers, T. C., Kanaan, A. Ribeiro, T., Schoenell, W., Mendes de Oliveira, C. Data Release 2 of S-PLUS: Accurate template-fitting based photometry covering 1000 deg<sup>2</sup> in 12 optical filters 2022, Monthly Notices of the Royal Astronomical Society, vol. 511, 4590 (ADS PDF)
- 94. Shank, D., Beers, T., Placco, V. M., Limberg, G., Jaques, E., Yuan, Zhen, Schlaufman, K. C., Casey, A. R., Huang, Y., Lee, Y. S., Hattori, K., Santucci, R. M. *Dynamically Tagged Groups of Metal-Poor Stars from the Best & Brightest Survey* 2022, The Astrophysical Journal, vol. 926, 26 (ADS PDF)
- 93. Galarza, C. A., Daflon, S., Placco, V. M., Allende Prieto, C. Borges Fernandes, M., Yuan, H., López-Sanjuan, C., Lee, Y. S., Solano, E., Jiménez-Esteban, F., Sobral, D., Alvarez-Candal, A., Pereira, C. B., Akras, S., Martín, E., Jiménez-Teja, Y., Cenarro, J., Cristóbal-Hornillos, D., Hernández-Monteagudo, C., Marín-Franch, A., Moles, M., Varela, J., Vázquez Ramió, H., Alcaniz, J., Dupke, R., Ederoclite, A., Sodré Jr., L., Angulo, R. *J-PLUS: Searching for very metal-poor star candidates using the SPEEM pipeline* 2022, Astronomy & Astrophysics, vol. 657, A35 (ADS PDF)
- 92. López-Sanjuan, C., Yuan, H., Vázquez Ramió, H., Varela, J., Cristóbal-Hornillos, D., Tremblay, P. -E., Marín-Franch, A., Cenarro, A., Ederoclite, A., Alfaro, E., Alvarez-Candal, A., Daflon, S., Hernán-Caballero, A., Hernández-Monteagudo, C., Jiménez-Esteban, F., Placco, V. M., Tempel, E., Alcaniz, J., Angulo, R., Dupke, R., Moles, M., Sodré Jr., L. *J-PLUS: Systematic impact of metallicity on photometric calibration with the stellar locus* 2021, Astronomy & Astrophysics, vol. 654, A61 (ADS PDF)
- 91. Bonoli, S., Marín-Franch, A., Varela, J., Vázquez Ramió, H., Abramo, L. R., Cenarro, A. J., Dupke, R. A., Vílchez, J. M., Cristóbal-Hornillos, D., González Delgado, R. M., Hernández-Monteagudo, C., López-Sanjuan, C., Muniesa, D., Civera, T., Ederoclite, A., Hernán-Caballero, A., Marra, V., Baqui, P., Cortesi, A., Cypriano, E., Daflon, S., de Amorim, A., Díaz-García, L., Diego, J., Martínez-Solaeche, G., Pérez, E., Placco, V. M., et al.

- The miniJPAS survey: a preview of the Universe in 56 colours **2021**, **Astronomy & Astrophysics**, vol. 653, A31 (ADS PDF)
- Arentsen, A., Starkenburg, E., Aguado, D. S., Martin, N. F., Placco, V. M., Carlberg, R., González Hernández, J. I., Hill, V., Jablonka, P., Kordopatis, G., Lardo, C., Mashonkina, L. I., Navarro, J. F., Venn, K. A., Buder, S., Lewis, G. F., Wan, Z., Zucker, D. B.

The Pristine Inner Galaxy Survey (PIGS) III: carbon-enhanced metal-poor stars in the bulge **2021**, Monthly Notices of the Royal Astronomical Society, vol. 505, 1239 (ADS — PDF)

- 89. Dietz, S. E., Yoon, J., Beers, T. C., Placco, V. M., Lee, Y. S.

  Two Populations of Carbon-Enhanced Metal-Poor Stars in the Disk System of the Milky Way

  2021, The Astrophysical Journal, vol. 914, 100 (ADS PDF)
- 88. Limberg, G., Santucci, R. M., Rossi, S., Shank, D., Placco, V. M., Beers, T., Schlaufman, K. C., Casey, A. R., Perottoni, H. D., Lee, Y. S.

  Targeting Bright Metal-poor Stars in the Disk and Halo Systems of the Galaxy

  2021, The Astrophysical Journal, vol. 913, 11 (ADS PDF)
- 87. Placco, V. M., Roederer, I. U., Lee, Y. S., Almeida-Fernandes, F., Herpich, F. R., Perottoni, H. D., Schoenell, W., Ribeiro, T., Kanaan, A.
  SPLUS J210428.01—004934.2: An Ultra Metal-Poor Star Identified from Narrow-Band Photometry
  2021, The Astrophysical Journal Letters, vol. 912, 32 (ADS PDF)
- 86. Whitten, D. D., Placco, V. M., Beers, T., An, D., Lee, Y. S., Almeida-Fernandes, F., Herpich, F., Daflon, S., Barbosa, C., Perottoni, H., Rossi, S., Tissera, P., Yoon, J., Schoenell, W., Ribeiro, T., Kanaan, A., Youakim, K. The Photometric Metallicity and Carbon Distributions of the Milky Way's Halo and Solar Neighborhood from S-PLUS Observations of SDSS Stripe 82

  2021, The Astrophysical Journal, vol. 912, 147 (ADS PDF)
- 85. Fernández-Trincado, J. G., Beers, T., Minniti, D., Carigi, L., Placco, V. M., Chun, S., Lane, R., Geisler, D., Villanova, S. Souza, S., Barbuy, B., Pérez-Villegas, A., Chiappini, C., Queiroz, A., Tang, B., Alonso-García, J., Piatti, A., Palma, T. Alves-Brito, A., Moni Bidin, C., Roman-Lopes, A., Muñoz, R., Singh, H., Kundu, R., Chaves-Velasquez, L., Romero-Colmenares, M., Longa-Peña, P., Soto, M., Vieira, K. APOGEE discovery of a chemically atypical star disrupted from NGC 6723 and captured by the Milky Way bulge 2021, Astronomy & Astrophysics, vol. 647,64 (ADS PDF)
- 84. Gudin, D., Shank, D., Beers, T. C., Yuan, Z., Limberg, G., Roederer, I. U., **Placco, V. M.**, Holmbeck, E. M., Dietz, S., Rasmussen, K. C., Hansen, T. T., Sakari, C. M, Ezzeddine, R., Frebel, A. *The R-Process Alliance: Chemodynamically Tagged Groups of Halo r-Process-Enhanced Stars Reveal a Shared Chemical-Evolution History*2021, The Astrophysical Journal, vol. 908, 79 (ADS PDF)
- 83. Limberg, G., Rossi, S., Beers, T., Perottoni, H., Pérez-Villegas, A., Santucci, R., Abuchaim, Y., Placco, V. M., Lee, Y. S., Christlieb, N., Norris, J. E., Bessell, M., Ryan, S. G., Wilhelm, R., Rhee, J., Frebel, A. *Dynamically Tagged Groups of Very Metal-Poor Halo Stars from the HK and Hamburg/ESO Surveys* 2021, The Astrophysical Journal, vol. 907, 10 (ADS PDF)
- 82. Baqui, P., Marra, V., Casarini, L., Angulo, R., Díaz-García, L., Hernández-Monteagudo, C., Lopes, P. A., López-Sanjuan, C., Muniesa, D., Placco, V. M., Quartin, M., Queiroz, C., Sobral, D., Solano, E., Tempel, E., Varela, J., Vílchez, J. M., Abramo, L. R., Alcaniz, J., Benitez, N., Bonoli, S., Carneiro, S., Cenarro, A. J., Cristóbal-Hornillos, D., de Amorim, A., de Oliveira, C. M., Dupke, R. A., Ederoclite, A., González Delgado, R. M., Marín-Franch, A., Moles, M., Vázquez Ramió, H., Sodré, L., Taylor, K.

  The miniJPAS survey: star-galaxy classification using machine learning

  2021, Astronomy & Astrophysics, vol. 645, A87 (ADS PDF)
- 81. Rasmussen, K., Zepeda, J., Beers, T. C., **Placco, V. M.**, Depagne, É., Frebel, A., Dietz, S., Hartwig, T. *Metal-Poor Stars Observed with the Southern African Large Telescope*2020, **The Astrophysical Journal**, vol. 905, 20 (ADS PDF)

- Mardini, M. K., Placco, V. M., Meiron, Y., Ishchenko, M., Avramov, B., Mazzarini, M., Berczik, P., Arca Sedda, M. Beers, T. C., Frebel, A., Taani, A., Donnari, M., Al-Wardat, M. A., Zhao, G. Cosmological Insights into the Early Accretion of r-Process-Enhanced stars. I. A Comprehensive Chemodynamical Analysis of LAMOST J1109+0754
   2020, The Astrophysical Journal, vol. 903, 88 (ADS PDF)
- 79. Fernández-Trincado, J. G., Minniti, D., Beers, T., Villanova, S. Geisler, D., Souza, S., Smith, L., **Placco, V. M.**, Vieira, K., Pérez-Villegas, A., Barbuy, B., Alves-Brito, A., Bidin, C. M., Alonso-García, J., Tang, B., Palma, T. *The enigmatic globular cluster UKS 1 obscured by the bulge: H-band discovery of nitrogen-enhanced stars* **2020**, **Astronomy & Astrophysics**, vol. 643, 145 (ADS PDF)
- Fernández-Trincado, J. G., Beers, T. C., Minniti, D., Carigi, L., Barbuy, B., Placco, V. M., Moni Bidin, C., Villanova, S. Roman-Lopes, A., Nitschelm, C. Discovery of a Large Population of Nitrogen-Enhanced Stars in the Magellanic Clouds 2020, The Astrophysical Journal Letters, vol. 903, 17 (ADS PDF)
- Roederer, I. U., Lawler, J. E., Holmbeck, E. M., Beers, T. C., Ezzeddine, R., Frebel, A., Hansen, T. T., Ivans, I. I., Karakas, A. I., Placco, V. M., Sakari, C. M.
   Detection of Pb II in the Ultraviolet Spectra of Three Metal-Poor Stars

   2020, The Astrophysical Journal Letters, vol. 902, 24 (ADS PDF)
- Holmbeck, E. M., Hansen, T. T., Beers, T. C., Placco, V. M., Whitten, D. D., Rasmussen, K. C., Roederer, I. U., Sakari, C., Ezzeddine, R., Frebel, A., Drout, M. R., Simon, J. D., Thompson, I. B., Bland-Hawthorn, J., Gibson, B. K., Grebel, E. K., Kordopatis, G., Kunder, A., Meléndez, J., Navarro, J. F., Reid, W. A., Seabroke, G., Steinmetz, M., Watson, F., Wyse, R. F. G.
   The R-Process Alliance: Fourth Data Release from the Search for R-Process-Enhanced Stars in the Galactic Halo
   2020, The Astrophysical Journal Supplement Series, vol. 249, 30 (ADS PDF)
- 75. Ezzeddine, R., Rasmussen, K., Frebel, A., Chiti, A., Hinojisa, K., Placco, V. M., Ji, A. P., Beers, T. C., Hansen, T. T., Roederer, I. U., Sakari, C. M., Melendez, J. The R-Process Alliance: First Magellan/MIKE Release from the Southern Search for R-Process-enhanced Stars 2020, The Astrophysical Journal, vol. 898, 150 (ADS — PDF)
- 74. Cain, M., Frebel, A., Ji, A. P., Placco, V. M., Ezzeddine, R., Roederer, I. U., Hattori, K., Beers, T. C., Meléndez, J., Hansen, T. T., Sakari, C. The R-Process Alliance: A Very Metal-Poor, Extremely r-Process-Enhanced Star with [Eu/Fe] = +2.2, and the Class of r-III Stars
  2020, The Astrophysical Journal, vol. 898, 40 (ADS PDF)
- 73. Placco, V. M., Santucci, R. M., Yuan, Z., Mardini, M. K., Holmbeck, E. M., Wang, X., Surman, R., Hansen, T., Roederer, I. U., Beers, T., Choplin, A., Ji, A., Ezzeddine, R., Frebel, A., Sakari, C., Whitten, D., Zepeda, J. The R-Process Alliance: The Peculiar Chemical Abundance Pattern of RAVE J183013.5—455510 2020, The Astrophysical Journal, vol. 897, 78 (ADS PDF)
- 72. Molino, A., Costa-Duarte, M. V., Sampedro, L., Herpich, F. R., Sodré, L., Jr., Mendes de Oliveira, C., Schoenell, W., Barbosa, C. E., Queiroz, C., Lima, E. V. R., Azanha, L., Muñoz-Elgueta, N., Ribeiro, T., Kanaan, A., Hernandez-Jimenez, J. A., Cortesi, A., Akras, S., Lopes de Oliveira, R., Torres-Flores, S., Lima-Dias, C., Nilo Castellon, J. L., Damke, G., Alvarez-Candal, A., Jiménez-Teja, Y., Coelho, P., Pereira, E., Montero-Dorta, A. D., Benítez, N., Gonçalves, T. S., Santana-Silva, L., Werner, S. V., Almeida, L. A., Lopes, P. A. A., Chies-Santos, A. L., Telles, E., de Souza, T. C. R., Gonçalves, D. R., de Souza, R. S., Makler, M., Placco, V. M., Nakazono, L. M. I., Saito, R. K., Overzier, R. A., Abramo, L. R. Assessing the photometric redshift precision of the S-PLUS survey: the Stripe-82 as a test-case 2020, Monthly Notices of the Royal Astronomical Society, vol. 499, 3884 (ADS PDF)
- Dietz, S. E., Yoon, J., Beers, T. C., Placco, V. M.
   The Metallicity Gradient and Complex Formation History of the Outermost Halo of the Milky Way 2020, The Astrophysical Journal, vol. 894, 34 (ADS PDF)

- Yoon, J., Whitten, D. D., Beers, T. C., Lee, Y. S., Masseron, T., Placco, V. M. Identification of a Group III CEMP-no Star in the Dwarf Spheroidal Galaxy Canes Venatici I 2020, The Astrophysical Journal, vol. 894, 7 (ADS PDF)
- Yuan, Z., Myeong, G. C., Beers, T. C., Evans, N. W., Lee, Y. S., Banerjee, P., Gudin, D., Hattori, K., Li, H., Matsuno, T., Placco, V. M., Smith, M. C., Whitten, D. D., Zhao, G. Dynamical Relics of the Ancient Galactic Halo
   2020, The Astrophysical Journal, vol. 891, 39 (ADS PDF)
- Andrade-Santos, F., van Weeren, R. J., Di Gennaro, G., Wittman, D., Ryu, D., Lal, D. V., Placco, V. M., Fogarty, K., Jee, M. J., Stroe, A., Sobral, D., Forman, W. R., Jones, C., Kraft, R. P., Murray, S. S., Brüggen, M., Kang, H., Santucci, R. M., Golovich, N., Dawson, W. A. Chandra Observations of the Spectacular A3411—12 Merger Event
   The Astrophysical Journal, vol. 887, 31 (ADS PDF)
- 67. Fernández-Trincado, J. G., Mennickent, R., Cabezas, M., Zamora, O., Martell, S., Beers, T. C., Placco, V. M., Nataf, D., Mészáros, S., Minniti, D., Schleicher, D. R., Tang, B., Pérez-Villegas, A., Robin, A. C., Reylé, C. Discovery of a nitrogen-enhanced mildly metal-poor binary system: Possible evidence for pollution from an extinct AGB star
  - **2019**, **Astronomy & Astrophysics**, vol. 631, A97 (ADS PDF)
- Fernández-Trincado, J. G., Beers, T. C., Placco, V. M., Moreno, E., Alves-Brito, A., Minniti, D., Tang, B., Pérez-Villegas, A., Reylé, C., Robin, A. C., Villanova, S.
   *Discovery of a New Stellar Subpopulation Residing in the (Inner) Stellar Halo of the Milky Way* 2019, The Astrophysical Journal Letters, vol. 886, 8 (ADS PDF)
- 65. López-Sanjuan, C., Varela, J., Cristóbal-Hornillos, D., Vázquez Ramió, H., Carrasco, J. M., Tremblay, P. -E., Whitten, D., Placco, V. M., Marín-Franch, A., Cenarro, A., Ederoclite, A., Alfaro, E., Coelho, P., Civera, T., Hernández-Fuertes, J., Jiménez-Esteban, F., Jiménez-Teja, Y., Maíz Apellániz, J., Sobral, D., Vílchez, J., Alcaniz, J., Angulo, R., Dupke, R., Hernández-Monteagudo, C., Mendes de Oliveira, C., Moles, M., Sodré Jr., L. *J-PLUS: Photometric Calibration of Large-Area Multi-Filter Surveys with Stellar and White Dwarf loci* 2019, Astronomy & Astrophysics, vol. 631, A119 (ADS PDF)
- 64. Whitten, D. D., Beers, T. C., Placco, V. M., Santucci, R. M., Denisenkov, P., Tissera, P. B., Mejías, A., Hernitschek, N., Carollo, D. Constraints on the Galactic Inner Halo Assembly History from the Age Gradient of Blue Horizontal-Branch Stars 2019, The Astrophysical Journal, vol. 884, 67 (ADS PDF)
- 63. Mendes de Oliveira, C., Ribeiro, T., Schoenell, W., Kanaan, A., Overzier, R., Molino, A., Sampedro, L., Coelho, P., Barbosa, C., Cortesi, A., Costa-Duarte, M. V., Herpich, F. R., Hernandez-Jimenez, J., Placco, V. M., et al. The Southern Photometric Local Universe Survey (S-PLUS): improved SEDs, morphologies and redshifts with 12 optical filters
  - 2019, Monthly Notices of the Royal Astronomical Society, vol. 489, 241 (ADS PDF)
- Mardini, M. K., Placco, V. M., Taani, A., Li, H., Zhao, G.
   Metal-Poor Stars Observed with the Automated Planet Finder Telescope. II. Chemodynamical Analysis of Six
   Low-Metallicity Stars in the Halo System of the Milky Way
   2019, The Astrophysical Journal, vol. 882, 27 (ADS PDF)
- 61. Ezzeddine, R., Frebel, A., Roederer, I. U., Tominaga, N., Tumlinson, J., Ishigaki, M., Nomoto, K., Placco, V. M., Aoki, W. Evidence for an Aspherical Population III Supernova Explosion Inferred from the Hyper Metal-Poor Star HE 1327—2326 2019, The Astrophysical Journal, vol. 876, 97 (ADS PDF)
- 60. Mardini, M. K., Li., H., Placco, V. M., Alexeeva, S., Carollo, D., Taani, A., Ablimit, I., Wang, L., Zhao, G. Metal-Poor Stars Observed with the Automated Planet Finder Telescope. I. Discovery of Five Carbon-Enhanced Metal-Poor Stars from LAMOST
  - 2019, The Astrophysical Journal, vol. 875, 89 (ADS PDF)

- 58. Hansen, C. J., Hansen, T. T., Koch, A., Beers, T. C., Nordström, B., Placco, V. M., Andersen, J. Abundances and kinematics of carbon-enhanced metal-poor stars in the Galactic halo. A new classification scheme based on Sr and Ba
  2019, Astronomy & Astrophysics, vol. 623, A128 (ADS PDF)
- 57. Cenarro, A., Moles, M., Cristóbal-Hornillos, D., Marín-Franch, A., Ederoclite, A., Varela, J., López-Sanjuan, C., Hernández-Monteagudo, C., Angulo, R., Vázquez Ramió, H., Viironen, K., Bonoli, S., Orsi, A., Hurier, G., San Roman, I., Vilella-Rojo, G., Díaz-García, L., Logroño-García, R., Gurung-López, S., Spinoso, D., Izquierdo-Villalba, D., Aguerri, J., Allende Prieto, C., Bonatto, C., Carvano, J., Chies-Santos, A., Daflon, S., Dupke, R., Falcón-Barroso, J., Gonçalves, D., Jiménez-Teja, Y., Molino, A., Placco, V. M., Solano, E., Whitten, D., et al. *J-PLUS: The Javalambre Photometric Local Universe Survey*2019, Astronomy & Astrophysics, vol. 622, A176 (ADS PDF)
- 56. López-Sanjuan, C., Vázquez Ramió, H., Varela, J., Spinoso, D., Angulo, R. E., Muniesa, D., Viironen, K., Cristóbal-Hornillos, D., Cenarro, A. J., Ederoclite, A., Marín-Franch, A., Moles, M., Ascaso, B., Bonoli, S., Chies-Santos, A. L., Coelho, P. R., Costa-Duarte, M. V., Cortesi, A., Díaz-García, L. A., Dupke, R. A., Galbany, L., Hernández-Monteagudo, C., Logroño-García, R., Molino, A., Orsi, A., Placco, V. M., Sampedro, L., San Roman, I., Vilella-Rojo, G., Whitten, D., Mendes de Oliveira, C. L., Sodré Jr., L. *J-PLUS: Morphological star/galaxy classification by PDF analysis* 2019, Astronomy & Astrophysics, vol. 622, A177 (ADS PDF)
- Whitten, D. D., Placco, V. M., Beers, T. C., Chies-Santos, A. L., Bonatto, C., Varela, J., Cristóbal-Hornillos, D., Ederoclite, A., Akras, S., Caballero, J. A., Coelho, P., Costa-Duarte, M. V., Borges Fernandes, M., Lopes de Oliveira, R., Orsi, A. A., Vázquez Ramió, H., Rossi, S., Cenarro, A. J., Daflon, S., Dupke, R. A., Marín-Franch, A., Mendes de Oliveria, C., Moles, M., Sodré, L. J-PLUS: Identification of Low-Metallicity Stars with Artificial Neural Networks using SPHINX 2019, Astronomy & Astrophysics, vol. 622, A182 (ADS PDF)
- 54. Placco, V. M., Santucci, R. M., Beers, T. C., Chanamé, J., Sepúlveda, M. P., Coronado, J., Rossi, S., Lee, Y. S., Starkenburg, E., Youakim, K., Barrientos, M., Ezzeddine, R., Frebel, A., Hansen, T. T., Holmbeck, E. M., Ji, A. P., Rasmussen, K. C., Roederer, I. U., Sakari, C. M., Whitten, D. D. The R-Process Alliance: Spectroscopic Follow-up of 857 Low-Metallicity Star Candidates from the Best & Brightest Survey
  2019, The Astrophysical Journal, vol. 870, 122 (ADS PDF)
- 53. Sakari, C. M., Placco, V. M., Farrell, E. M., Roederer, I. U., Wallerstein, G., Beers, T. C., Ezzeddine, R., Frebel, A., Hansen, T. T., Holmbeck, E. M., Sneden, C., Cowan, J. J., Venn, K. A., Davis, C. E., Matijevič, G., Wyse, R., Bland-Hawthorn, J., Chiappini, C., Freeman, K. C., Gibson, B. K., Grebel, E. K., Helmi, A., Kordopatis, G., Kunder, A., Navarro, J., Reid, W., Seabroke, G., Steinmetz, M., Watson, F.

  The R-Process Alliance: First Release from Northern Search for R-Process-Enhanced Stars in the Galactic Halo 2018, The Astrophysical Journal, in vol. 868, 110 (ADS PDF)
- 52. Wanying Fu, S., Simon, J. D., Shetrone, M., Bovy, J., Beers, T. C., Fernández-Trincado, J., **Placco, V. M.**, Zamora, O., Allende-Prieto, C., García-Hernández, D. A., Harding, P., Ivans, I. I., Lane, R., Nitschelm, C., Roman-Lopes, A., Sobeck, J. *The Origin of the 300 km s*<sup>-1</sup> *Stream near Segue 1* **2018**, **The Astrophysical Journal**, vol. 866, 42 (ADS PDF)

- 51. Roederer, I. U., Sakari, C. M., **Placco, V. M.**, Beers, T. C., Ezzeddine, R., Frebel, A., Hansen, T. T. The R-Process Alliance: A Comprehensive Abundance Analysis of HD 222925, a Metal-Poor Star with an Extreme R-Process Enhancement of [Eu/H] = -0.14

  2018, The Astrophysical Journal, vol. 865, 129 (ADS PDF)
- Cain, M., Frebel, A., Gull, M., Ji, A. P., Placco, V. M., Beers, T. C., Meléndez, J., Ezzeddine, R., Casey, A. R., Hansen, T. T., Roederer, I. U., Sakari, C.
   *The R-Process Alliance: Chemical Abundances for a Trio of R-Process-Enhanced Stars One Strong, One Moderate, One Mild* 2018, The Astrophysical Journal, vol. 864, 43 (ADS PDF)
- 49. Gull, M., Frebel, A., Cain, M., Placco, V. M., Ji, A. P., Abate, C., Ezzeddine, R., Karakas, A. I., Hansen, T. T., Sakari, C., Holmbeck, E. M., Santucci, R. M., Casey, A. R., Beers, T. C.

  The R-Process Alliance: Discovery of the first metal-poor star with a combined r- and s-process element signature

  2018, The Astrophysical Journal, vol. 862, 174 (ADS PDF)
- 48. Yoon, J., Beers, T., Dietz, S., Lee, Y. S., Placco, V. M., Da Costa, G., Keller, S., Owen, C. I., Sharma, M. Galactic Archeology with the AEGIS Survey: The Evolution of Carbon and Iron in the Galactic Halo 2018, The Astrophysical Journal, vol. 861, 146 (ADS PDF)
- 47. Holmbeck, E. M., Beers, T. C., Roederer, I. U., Placco, V. M., Hansen, T. T., Sakari, C., Sneden, C., Liu, C., Lee, Y. S., Frebel, A.

  The R-Process Alliance: 2MASS J09544277+5246414, The Most Actinide-Enhanced r-II Star Known 2018, The Astrophysical Journal Letters, vol. 859, 24 (ADS PDF)
- 46. Placco, V. M., Beers, T. C., Santucci, R. M., Chanamé, J., Sepúlveda, M. P., Coronado, J., Points, S. D., Kaleida, C. C., Rossi, S., Kordopatis, G., Lee, Y. S., Matijevič, G., Frebel, A., Hansen, T. T., Holmbeck, E. M., Rasmussen, K. C., Roederer, I. U., Sakari, C. M., Whitten, D. D. Spectroscopic Validation of Low-Metallicity Stars from RAVE
  2018, The Astronomical Journal, vol. 155, 256 (ADS PDF)
- Hansen, T. T., Holmbeck, E. M., Beers, T. C., Placco, V. M., Roederer, I. U., Frebel, A., Sakari, C. M., Simon, J. D., Thompson, I. B.
   The R-Process Alliance: First Release from Southern Search for R-Process-Enhanced Stars in the Galactic Halo 2018, The Astrophysical Journal, vol. 858, 92 (ADS PDF)
- 44. Sakari, C. M., Placco, V. M., Hansen, T. T., Holmbeck, E. M., Beers, T. C., Frebel, A. F., Roederer, I. U., Venn, K. A., Wallerstein, G., Davis, C. E., Farrell, E., Yong, D. *The r-process Pattern of a Bright, Highly r-process-enhanced Metal-poor Halo Star at [Fe/H]*∼ −2 2018, The Astrophysical Journal Letters, vol. 854, 20 (ADS PDF)
- 43. Shappee, B. J., Simon, J. D., Drout, M. R., Piro, A. L., Morrell, N., Prieto, J. L., Kasen, D., Holoien, T. W.-S., Kollmeier, J. A., Kelson, D. D., Coulter, D. A., Foley, R. J., Kilpatrick, C. D., Siebert, M. R., Madore, B. F., Murguia-Berthier, A., Pan, Y.-C., Prochaska, J. X., Ramirez-Ruiz, E., Rest, A., Adams, C., Alatalo, K., Banãdos, E., Baughman, J., Bernstein, R. A., Bitsakis, T., Boutsia, K., Bravo, J. R., Di Mille, F., Higgs, C. R., Ji, A. P., Maravelias, G., Marshall, J. L., Placco, V. M., Prieto, G., Wan, Z. Early Spectra of a Gravitational Wave Source GW170817: Evolution of a Neutron Star Merger 2017, Science, 10.1126/science.aaq0186 (ADS PDF)
- LIGO Scientific Collaboration and Virgo Collaboration, Fermi GBM, INTEGRAL, IceCube Collaboration, ..., TOROS: Transient Robotic Observatory of the South Collaboration (incl. Placco, V. M.), ... Multi-messenger Observations of a Binary Neutron Star Merger
   The Astrophysical Journal Letters, vol. 848, 12 (ADS PDF)
- 41. Díaz, M. C., Macri, L. M., Garcia Lambas, D., Mendes de Oliveira, C., Nilo Castellón, J. L., Ribeiro, T., Sánchez, B., Schoenell, W., Abramo, L. R., Akras, S., Alcaniz, J. S., Artola, R., Beroiz, M., Bonoli, S., Cabral, J., Camuccio, R., Castillo, M., Chavushyan, V., Coelho, P., Colazo, C., Costa-Duarte, M. V., Cuevas Larenas, H.,

- DePoy, D. L., Domínguez Romero, M., Dultzin, D., Fernández, D., García, J., Girardini, C., Gonçalves, D. R., Gonçalves, T. S., Gurovich, S., Jiménez-Teja, Y., Kanaan, A., Lares, M., Lopes de Oliveira, R., López-Cruz, O., Marshall, J. L., Melia, R., Molino, A., Padilla, N., Peñuela, T., Placco, V. M., Quiñones, C., Ramírez Rivera, A., Renzi, V., Riguccini, L., Ríos-López, E., Rodriguez, H., Sampedro, L., Schneiter, M., Sodré, L., Starck, M., Torres-Flores, S., Tornatore, M., Zadrozny, A.
- Observations of the first electromagnetic counterpart to a gravitational wave source by the TOROS collaboration 2017, The Astrophysical Journal Letters, vol. 848, 29 (ADS PDF)
- 40. Reggiani, H., Meléndez, J., Kobayashi, C., Karakas, A., Ramírez, I., Placco, V. M. Constraining cosmic scatter in the Galactic Halo through a differential analysis of Metal Poor Stars 2017, Astronomy & Astrophysics, vol. 608, 46 (ADS PDF)
- Kielty, C. L., Venn, K. A., Loewen, N. B., Shetrone, M., Placco, V. M., Jahandar, F., Mészáros, Sz., Martell, S. Carbon-enhanced metal-poor stars in the SDSS-APOGEE database
   2017, Monthly Notices of the Royal Astronomical Society, vol. 471, 404 (ADS PDF)
- 38. Fernández-Trincado, J. G., Zamora, O., Garcia-Hernandez, D. A., Souto, D., Dell'Agli, F., Schiavon, R. P., Geisler, D., Tang, B., Villanova, S., Hasselquist, S., Mennickent, R. E., Cunha, K., Shetrone, M., Allende-Prieto, C., Vieira, K., Zasowski, G., Sobeck, J., Hayes, C. R., Majewski, S. R., Placco, V. M., Beers, T. C., Schleicher, D. R. G., Robin, A. C., Meszaros, Sz., Masseron, T., Garcia-Perez, A. E., Anders, F., Meza, A., Alves-Brito, A., Carrera, R., Minniti, D., Lane, R. R., Fernandez-Alvar, E., Moreno, E., Pichardo, B., Perez-Villegas, A., Schultheis, M., Roman-Lopes, A., Fuentes, C. E., Nitschelm, C., Harding, P., Bizyaev, D., Pan, K., Oravetz, D., Simmons, A., Ivans, I. I., Blanco-Cuaresma, S., Hernandez, J., Alonso-Garcia, J., Valenzuela, O., Chaname, J. Atypical Mg-poor Milky Way field stars with globular cluster second-generation like chemical patterns 2017, The Astrophysical Journal Letters, vol. 846, 2 (ADS PDF)
- Hasselquist, S., Shetrone, M., Smith, V. V., Holtzman, J., McWilliam, A., Fernández-Trincado, J. G., Beers, T. C., Majewski, S. R., Nidever, D. L., Tang, B., Tissera, P. B., Fernández-Alvar, E. F., Allende-Prieto, C., Battaglia, G., Carigi, L., Cunha, K., Delgado Inglada, G., Frinchaboy, P., García-Hernández, D. A., Geisler, D., Minniti, D., Placco, V. M., Schultheis, M., Sobeck, J., Villanova, S. APOGEE Chemical Abundances of the Sagittarius Dwarf Galaxy
   2017, The Astrophysical Journal, vol. 845, 162 (ADS PDF)
- 36. Placco, V. M., Holmbeck, E. M., Frebel, A., Beers, T. C., Surman, R. A., Ji, A. P., Ezzedine, R., Points, S. D., Kaleida, C. C., Hansen, T. T., Sakari, C. M., Casey, A. R. RAVE J203843.2—002333: The First Highly R-process-enhanced Star Identified in the RAVE Survey. 2017, The Astrophysical Journal, vol. 844, 18 (ADS PDF)
- 35. Lee, Y. S., Beers, T. C., Kim, Y. K., Placco, V. M., Yoon, J., Carollo, D., Masseron, T., Jung, J. Chemical Cartography. I. A Carbonicity Map of the Galactic Halo
  2017, The Astrophysical Journal, vol. 836, 91 (ADS PDF)
- 34. Beers, T. C., Placco, V. M., Carollo, D., Rossi, S., Lee, Y. S., Frebel, A., Norris, J. E., Dietz, S., Masseron, T. Bright Metal-Poor Stars from the Hamburg/ESO Survey. II. A Chemodynamical Analysis

  2017, The Astrophysical Journal, vol. 835, 81 (ADS PDF)
- van Weeren, R. J., Andrade-Santos, F., Dawson, W. A., Golovich, N., Lal, D. V., Kang, H., Ryu, D., Brüggen, M., Ogrean, G. A., Forman, W. R., Jones, C., Placco, V. M., Santucci, R. M., Wittman, D., Jee, M. J., Kraft, R. P., Sobral, D., Stroe, A., Fogarty, K.
   The Case for Electron Re-Acceleration at Galaxy Cluster Shocks
   2017, Nature Astronomy, vol. 1, 5 (Nature Astronomy link Issue cover PDF)
- 32. Carollo, D., Beers, T., **Placco, V. M.**, Santucci, R. M., Denissenkov, P., Tissera, P. B., Lentner, G., Rossi, S., Lee, Y. S., Tumlinson, J.

  The age structure of the Milky Way's halo
  - **2016**, Nature Physics, vol. 12, 1170 (Nature Physics link Issue cover PDF)

- 31. Hasselquist, S., Shetrone, M., Cunha, K., Smith, V. V., Holtzman, J., Lawler, J. E., Beers, T. C., Chojnowski, D., Fernández-Trincado, J., García-Hernández, D., Hearty, F., Majewski, S., Pereira, C., Placco, V. M., Villanova, S., Zamora, O.
  - Identification of Neodymium in the APOGEE H-band Spectra 2016, The Astrophysical Journal, vol. 833, 81 (ADS PDF)
- 30. Placco, V. M., Frebel, A., Beers, T. C., Yoon, J., Chiti, A., Heger, A. Chan, C., Casey, A. R., Christlieb, N. Observational Constraints on First-Star Nucleosynthesis. II. Spectroscopy of an Ultra Metal-Poor CEMP-no Star 2016, The Astrophysical Journal, vol. 833, 21 (ADS PDF)
- 29. Yoon, J., Beers, T., Placco, V. M., Rasmussen, K., Carollo, D., He, S., Hansen, T., Roederer, I. U., Zeanah, J. *Observational Constraints on First-Star Nucleosynthesis. I. Evidence for Multiple Progenitors of CEMP-no Stars* **2016**, **The Astrophysical Journal**, vol. 833, 20 (ADS PDF)
- Placco, V. M., Beers, T. C., Reggiani, H., Meléndez, J.
   G64–12 and G64–37 are Carbon-Enhanced Metal-Poor Stars
   2016, The Astrophysical Journal Letters, vol. 829, 24 (ADS PDF)
- 27. Roederer, I. U., Placco, V. M., Beers, T. C. Detection of Phosphorus, Sulphur, and Zinc in the Carbon-Enhanced Metal-Poor Star BD+44°493

  2016, The Astrophysical Journal Letters, vol. 824, 19 (ADS PDF)
- Hansen, C. J., Nordström, B., Hansen, T., Kennedy, C. R., Placco, V. M., Beers, T. C., Andersen, J., Cescutti, G., Chiappini, C.
   Abundances of carbon-enhanced metal-poor stars as constraints on their formation
   2016, Astronomy & Astrophysics, vol. 588, A37 (ADS PDF)
- 25. Hansen, T., Andersen, J., Nordström, B., Beers, T., Placco, V. M., Yoon, J., Buchhave, L. The role of binaries in the enrichment of the early Galactic halo.III. Carbon-Enhanced Metal-Poor Stars CEMP-s 2016, Astronomy & Astrophysics, vol. 588, A3 (ADS PDF)
- 24. Hansen, T., Andersen, J., Nordström, B., Beers, T., Placco, V. M., Yoon, J., Buchhave, L. *The role of binaries in the enrichment of the early Galactic halo.II. Carbon-Enhanced Metal-Poor Stars CEMP-no* **2016**, **Astronomy & Astrophysics**, vol. 586, A160 (ADS PDF)
- 23. Meléndez, J., Placco, V. M., Tucci-Maia, M., Ramírez, I., Li, T. S., Perez, G., 2MASS J1808–5104: The Brightest (V=11.9) Ultra Metal-Poor Star 2016, Astronomy & Astrophysics Letter to the Editor, vol. 585, L5 (ADS PDF)
- 22. Hollek, J., Frebel, A., Placco, V. M., Karakas, A., Shetrone, M., Sneden, C., Christlieb, N. The Chemical Abundances of Stars in the Halo (CASH) Project. III. A New Classification Scheme for Carbon-Enhanced Metal-poor Stars with S-process Element Enhancement 2015, The Astrophysical Journal, vol. 812, 121 (ADS PDF)
- An, D., Beers, T. C., Santucci, R. M., Carollo, D., Placco, V. M., Lee, Y. S., Rossi, S.
   *The Fractions of Inner- and Outer-Halo Stars in the Local Volume as Revealed by SDSS Photometry of Stripe 82* 2015, The Astrophysical Journal Letters, vol. 813, 28 (ADS PDF)
- Santucci, R. M., Beers, T. C., Placco, V. M., Carollo, D., Rossi, S., Lee, Y. S., Denissenkov, P., Tumlinson, J., Tissera, P. B.
   Chronography of the Milky Way's Halo System with Field Blue Horizontal-Branch Stars
   2015, The Astrophysical Journal Letters, vol. 813, 16 (ADS PDF)
- 19. Placco, V. M., Beers, T. C., Ivans, I. I., Filler, D., Imig, J. A., Roederer, I., Abate, C., Hansen, T., Cowan, J., Frebel, A., Lawler, J. E., Schatz, H., Sneden, C., Sobeck, J., Aoki, W., Smith, V. V., Bolte, M. Hubble Space Telescope Near-Ultraviolet Spectroscopy of the Bright CEMP-s Stars
  2015, The Astrophysical Journal, vol. 812, 109 (ADS PDF)

- 18. Frebel, A., Chiti, A., Ji, A. P., Jacobson, H. R., **Placco, V. M.**SD 1313-0019 Another second-generation star with [Fe/H] = -5.0, observed with the Magellan Telescope

  2015, **The Astrophysical Journal Letters**, vol. 810, 27 (ADS PDF)
- 17. Placco, V. M., Frebel, A., Lee, Y. S., Jacobson, H. R., Beers, T. C., Pena, J. M., Chan, C., Heger, A. Metal-poor Stars Observed with the Magellan Telescope. III. New Extremely and Ultra Metal-Poor Stars from SDSS/SEGUE and Insights on the Formation of Ultra Metal-Poor Stars 2015, The Astrophysical Journal, vol. 809, 136 (ADS PDF)
- Hansen, T., Hansen, C. J., Christlieb, N., Beers, T. C., Yong, D., Bessell, M. S., Frebel, A., García Pérez, A. E., Placco, V. M., Norris, J. E., Asplund, M. An Elemental Assay of Very, Extremely, and Ultra Metal-Poor Stars
   2015, The Astrophysical Journal, vol. 807, 173 (ADS PDF)
- 15. Santucci, R. M., Placco, V. M., Rossi, S., Beers, T. C., Reggiani, H. M., Lee, Y. S., Xue, X. X., Carollo, D. *The Frequency of Field Blue-Straggler Stars in the Thick Disk and Halo System of the Galaxy* **2015**, **The Astrophysical Journal**, vol. 801, 116 (ADS PDF)
- 14. Placco, V. M., Beers, T. C., Frebel, A., Stancliffe R.

  Carbon-Enhanced Metal-Poor Star Frequencies in the Galaxy: Corrections for the Effect of Evolutionary Status on Carbon Abundances

  2014, The Astrophysical Journal, vol. 797, 21 (ADS PDF)
- Beers, T. C., Norris, J. E., Placco, V. M., Lee Y. S., Rossi S., Carollo, D., Masseron, T.
   Population Studies. XIII. A New Analysis of the Bidelman-MacConnell "Weak-metal" Stars Confirmation of Metal-poor Stars in the Thick Disk of the Galaxy

   2014, The Astrophysical Journal, vol. 794, 58 (ADS PDF)
- 12. Placco, V. M., Beers, T. C., Roederer, I., Cowan, J., Frebel, A., Filler, D., Ivans, I. I., Lawler, J. E., Schatz, H., Sneden, C., Sobeck, J., Aoki, W., Smith, V. V. Hubble Space Telescope Near-Ultraviolet Spectroscopy of the Bright CEMP-no Star BD+44° 493
  2014, The Astrophysical Journal, vol. 790, 34 (ADS PDF)
- 11. Carollo, D., Freeman, K., Beers, T. C., Placco, V. M., Tumlinson, J., Martell, S. L. Carbon-enhanced Metal-poor Stars: CEMP-s and CEMP-no Subclasses in the Halo System of the Milky Way 2014, The Astrophysical Journal, vol. 788, 180 (ADS PDF)
- Hansen, T., Hansen, C. J., Christlieb, N., Yong, D., Bessell, M., García Pérez, A., Beers, T. C., Placco, V. M., Frebel, A., Norris, J. E., Asplund, M.
   Exploring the Origin of Lithium, Carbon, Strontium, and Barium with Four New Ultra Metal-poor Stars
   2014, The Astrophysical Journal, vol. 787, 162 (ADS PDF)
- Kennedy, C. R., Stancliffe, R. J., Kuehn, C., Beers, T. C., Kinman, T. D., Placco, V. M., Reggiani, H., Rossi, S., Lee, Y. S.
   Seven New Carbon-enhanced Metal-poor RR Lyrae Stars
   2014, The Astrophysical Journal, vol. 787, 6 (ADS PDF)
- 8. Placco, V. M., Frebel, A., Beers, T. C., Christlieb, N., Lee, Y. S., Kennedy, C. R., Rossi, S., Santucci, R. Metal-poor Stars Observed with the Magellan Telescope. II. Discovery of Four Stars with [Fe/H]≤ −3.5 2014, The Astrophysical Journal, vol. 781, 40 (ADS PDF)
- 7. Lee Y. S., Beers T. C., Masseron T., Plez B., Rockosi, C., Sobeck, J., Yanny, B., Lucatello, S., Sivarani, T., Placco, V. M., Carollo D. Carbon-enhanced Metal-poor Stars in SDSS/SEGUE. I. Carbon Abundance Estimation and CEMP Star Frequency 2013, The Astronomical Journal, vol. 146, 132 (ADS PDF)

- 6. Placco, V. M., Frebel A., Beers T. C., Karakas A., Kennedy C. R., Rossi S., Christlieb N., Stancliffe R. Metal-Poor Stars Observed with the Magellan Telescope I. Constraints on Progenitor Mass and Metallicity of AGB Stars Undergoing s-Process Nucleosynthesis
  2013, The Astrophysical Journal, vol. 770, 104 (ADS PDF)
- Placco, V. M., Kennedy C.R., Beers T.C., Christlieb N., Rossi S., Sivarani T., Lee Y.S., Reimers D., Wisotzki L. Searches for Metal-Poor Stars from the Hamburg/ESO Survey using the CH G-band
   The Astronomical Journal, vol. 142, 188 (ADS PDF)
- 4. Kennedy, C.R., Sivarani, T., Beers, T.C., Lee, Y.S., Placco, V. M., Rossi, S., Christlieb, N., Herwig, F., Plez, B. [O/Fe] Estimates for Carbon-enhanced Metal-poor Stars from Near-infrared Spectroscopy 2011, The Astronomical Journal, vol. 141, 102 (ADS PDF)
- Placco, V. M., Kennedy C.R., Rossi S., Beers T.C., Lee Y.S., Christlieb N., Sivarani T., Reimers D., Wisotzki L. A Search for Unrecognized Carbon-Enhanced Metal-Poor Stars in the Galaxy
   The Astronomical Journal, vol. 139, 1051 (ADS PDF)
- 2. Marsteller, B., Beers, T. C., Sivarani, T., Rossi, S, **Placco, V. M.**, Knapp, G. R., Johnson, J. A., Lucatello, S. *Automated Determination of [Fe/H] and [C/Fe] from Low-Resolution Spectroscopy* **2009**, **The Astronomical Journal**, vol. 138, 533 (ADS PDF)
- Lichtenthäler, R., Lépine-Szily, A., Guimarães, V., Perego, C., Placco, V. M., Camargo, O., Jr., Denke, R., de Faria, P. N., Benjamim, E. A., Added, N., Lima, G. F., Hussein, M. S., Kolata, J., Arazi, A. Radioactive Ion beams in Brazil (RIBRAS)
   2005, The European Physical Journal A Supplement, vol. 25, 733 (ADS PDF)

## Proceedings, non-refereed publications and abstracts

- Merino, B., Placco, V. M., Stanghellini, L.
   The US NGO GMOS Data Reduction Cookbook: Version 2.0

   NSF's NOIRLab The Mirror, issue #3 (zenodo The Mirror ADS)
- 47. Hernández-Fuertes, J., Ramió, H., Ederoclite, A., Infante-Sainz, R., Siffert, B., Espinosa, L., Placco, V. M., Álvarez-Candal, A., Maícas, N., López-Martínez, F., Varela, J., López-Sanjuan, C., Marín-Franch, A., Cenarro, A. *JVAR Transient Discovery Report for 2021-12-14*, **Transient Name Server Discovery Report, 2021** (ADS)
- 46. Placco, V. M., Sneden, C., Roederer, I. U., Lawler, J. E., Den Hartog, E. A., Hejazi, N., Maas, Z., Bernath, P. linemake: an Atomic and Molecular Line List Generator
  2021, Research Notes of the American Astronomical Society, vol. 5, 92 (ADS PDF)
- 45. Khan, H., Sakari, C., Placco, V. M., Neutron Capture Abundances in the CEMP Star BD+42 2173: A Signature of the Intermediate (i-) Process?, American Astronomical Society, AAS Meeting #237, 2021 (ADS)
- 44. Shank, D., Beers, T. C., Yoon, J., Placco, V. M., Dynamically Tagged Groups of Carbon-Enhanced Metal-Poor Stars from the AEGIS Survey, American Astronomical Society, AAS Meeting #237, 2021 (ADS)
- 43. Komater, D., Shank, D., Beers, T. C., Yoon, J., Placco, V. M., Dynamically Tagged Groups of Metal-Poor Stars from the AEGIS Survey, American Astronomical Society, AAS Meeting #237, 2021 (ADS)
- 42. Zepeda, J., Rasmussen, K., Beers, T. C., Placco, V. M., High-Resolution Spectroscopic Abundances for over 200 Metal-Poor Stars, American Astronomical Society, AAS Meeting #237, 2021 (ADS)
- 41. Hernández-Fuertes, J., Ramió, H. V., Varela, J., Ederoclite, A., Siffert, B. B., Espinosa, L., Placco, V. M., Álvarez-Candal, A., Maícas, N., López-Sanjuan, C., Marín-Franch, A., Cenarro, A. J. Transient Discovery Report for 2020-12-22, Transient Name Server Discovery Report, 2020 (ADS)
- 40. Jeong, M., Lee, Y. S., Beers, T. C., Placco, V. M., Chemodynamical Properties of Extremely Metal-Poor Stars, American Astronomical Society, AAS Meeting #235, 2020

- 39. Yoon, J., Beers, T. C., Tian, D., Placco, V. M., Lee, Y. S., Origin and evolution of the CEMP-no stars in the Galaxy and its satellite dwarf galaxies, American Astronomical Society, AAS Meeting #235, 2020
- 38. The MSE Science Team (incl. **Placco, V. M.**), The Detailed Science Case for the Maunakea Spectroscopic Explorer, **2019** (ADS Abstract arXiv e-print)
- 37. Vázquez Ramió, H., Cristóbal-Hornillos, D., Ederoclite, A., Whitten, D. D., Placco, V. M., J-PLUS Team *Identification of RR Lyrae stars in the Javalambre Photometric Local Universe Survey*, Proceedings of the XIII Scientific Meeting of the Spanish Astronomical Society, 2019 (ADS)
- 36. Yoon, J., Whitten, D. D., Beers, T. C., Placco, V. M., Lee, Y. S., Dietz, S., Gudin, D., Rasmussen, K., Lifting the Veil on Ultra Metal-Poor Stars in the Outermost Halo, Rediscovering our Galaxy, Proceedings of the International Astronomical Union, 2018, vol. 334 (ADS)
- 35. Whitten, D. D., Placco, V. M., Beers, T. C., Clark, S., Ederoclite, A., Mendes de Oliveira, C., *Probing Galactic Chemical Evolution with J-PLUS Photometry*, Rediscovering our Galaxy, Proceedings of the International Astronomical Union, 2018, vol. 334 (ADS)
- 34. Rasmussen, K., Beers, T. C., Placco, V. M., Yoon, J., Dietz, S., *Measurement of [Fe/H] and [C/Fe] for Metal-Poor Stars from the RAVE Survey*, Rediscovering our Galaxy, Proceedings of the International Astronomical Union, 2018, vol. 334 (ADS)
- Dietz, S., Beers, T. C., Placco, V. M., Yoon, J., AEGIS Collaboration, Kinematic and Chemical Analysis of AEGIS Survey Stars, Rediscovering our Galaxy, Proceedings of the International Astronomical Union, 2018, vol. 334 (ADS)
- 32. Beers, T. C., Holmbeck, E. M., Placco, V. M., Hansen, T. T., Simon, J. D., Thompson, I., Frebel, A., Sakari, C. M., New Highly r-Process-Enhanced Halo Stars, Rediscovering our Galaxy, Proceedings of the International Astronomical Union, 2018, vol. 334 (ADS)
- 31. Placco, V. M. Identification Of (Bright) Carbon-Enhanced Metal-Poor Stars With J-Plus Photometry, Early Data Release and Scientific Exploitation of the J-PLUS Survey, 2017 (ADS)
- 30. Holmbeck, E. M., Placco, V. M., Beers, T. C., Frebel, A., Sakari, C., Surman, R. *RAVE J2038-0023: The First Bright r-Process Enhanced Star Identified in the RAVE Survey*, **Proceedings of the 14th Symposium on Nuclei in the Cosmos**, **2017** (ADS)
- van Weeren, R. J., Andrade-Santos, F., Dawson, W. A., Golovich, N., Lal, D. V., Kang, H., Ryu, D., Brüggen, M., Ogrean, G. A., Forman, W. R., Jones, C., Placco, V. M., Santucci, R. M., Wittman, D., Jee, M. J., Kraft, R. P., Sobral, D., Stroe, A., Fogarty, K. Discovery of Electron Re-Acceleration at Galaxy Cluster Shocks, American Astronomical Society, AAS Meeting #229, 2017
- 28. Yoon, J., Beers, T. C., Dietz, S., Lee, Y. S., Placco, V. M. Kinematics and chemistry of faint high latitude dwarf carbon stars, American Astronomical Society, AAS Meeting #229, 2017
- 27. Beers, T., Placco, V. M., Holmbeck, E., Hansen, T., Simon, J. Searching for New Highly r-Process-Enhanced Stars in the Halo of the Milky Way, American Astronomical Society, AAS Meeting #229, 2017
- 26. Dietz, S. E., Beers, T. C., Carollo, D., Yoon, J., Placco, V. M. Identifying CEMP-s and CEMP-no Stars within Milky Way Halo Structures, American Astronomical Society, AAS Meeting #229, 2017
- 25. Lentner, G., Beers, T. C., Placco, V. M., Carollo, D., Whitten, D., Denissenkov, P., Santucci, R., Rossi, S. Structures in the Milky Way's Halo System using the Age Distribution of Field Horizontal-Branch Stars, American Astronomical Society, AAS Meeting #229, 2017
- 24. Rasmussen, K., Beers, T. C., Placco, V. M., Yoon, J. *The First Mass Function and Rise of Carbon in the Early Universe*, American Astronomical Society, AAS Meeting #229, 2017

- 23. Hasselquist, S., Shetrone, M. D., Smith, V. V., Cunha, K., McWilliam, A., Holtzman, J. A., Majewski, S. R., Sobeck, J., Frinchaboy, P. M., Roman-Lopes, A., Ivans, I. I., Allende-Prieto, C., Placco, V. M., Lane, R., Zasowski, G. *APOGEE Chemical Abundances of the Sagittarius Dwarf Galaxy*, American Astronomical Society, AAS Meeting #229, 2017
- 22. Gimeno, G., Roth, K., Chiboucas, K., Hibon, P., Boucher, L., White, J., Rippa, M., Labrie, K., Turner, J., Hanna, K., Lazo, M., Pérez, G., Rogers, R., Rojas, R., Placco, V. M., Murowinski, R. *On-sky commissioning of Hamamatsu CCDs in GMOS-S*, Proceedings of the SPIE, 2016, vol. 9908, id. 99082S 14 pp. (SPIE Library)
- 21. Placco, V. M., Beers, T. C., Identifying Bright Carbon-Enhanced Metal-Poor Stars in the RAVE Catalog, American Astronomical Society, AAS Meeting #227, 2016
- 20. Kennedy, C. R., Placco, V. M., Beers, T. C., *High-resolution analysis of carbon-enhanced metal-poor stars with Magellan*, American Astronomical Society, AAS Meeting #227, 2016
- 19. Yoon, J., He, S., Placco, V. M., Carollo, D., Beers, T. C., Carbon Abundance Plateaus among Carbon-Enhanced Metal-Poor Stars, American Astronomical Society, AAS Meeting #227, 2016
- 18. Beers, T. C., Placco, V. M., Carollo, D., Santucci, R. M., Rossi, S., Lee, Y. S., Denissenkov, P., Tumlinson, J., Tissera, P., Lentner, G., *Chronography of the Milky Way's Halo System with Field Blue Horizontal-Branch Stars*, American Astronomical Society, AAS Meeting #227, 2016
- 17. Roth, K., Gimeno, G., Chiboucas, K., Hibon, P., Gomez, P. L., Placco, V. M., Commissioning new Hamamatsu CCDs for GMOS-S, American Astronomical Society, AAS Meeting #225, 2015
- 16. Beers, T. C., Carollo, D., Keller, S., Casey, A., Lee, Y. S., Placco, V. M.; Skymapper Team, Aegis Collaboration, Kinematics of the AEGIS Spectroscopic Sample of Milky Way Halo- and Disk-System Stars from SkyMapper, American Astronomical Society, AAS Meeting #225, 2015
- 15. Lopes de Oliveira, R., Placco, V. M., Unveiling optical and X-ray properties of the high mass X-ray binary XMMU J054134.7-682550, Revista Mexicana de Astronomía y Astrofísica (Serie de Conferencias), 2014, vol. 44, pp. 158-158 (ADS)
- 14. Lopes de Oliveira, R., Placco, V. M., Eighteen years of the life of the Be/X-ray binary XMMUJ054134.7-682550, The X-ray Universe, 2014
- Chene, A. N., Padzer, J., Barrick, G., Anthony, A., Benedict, T., Duncan, D., Gigoux, P., Kleinman, S., Malo, L., Martioli, E., Moutou, C., Placco, V. M.; Reshetovand, V., Rhee, J., Roth, K., Schiavon, R., Tollestrup, E. V., Vermeulen, T. A., White, J., Wooff, R., GRACES: Gemini remote access to CFHT ESPaDOnS spectrograph through the longest astronomical fiber ever made: experimental phase completed, Proceedings of the SPIE, 2014, vol. 9151, id. 915147 16 pp. (arXiv e-print)
- 12. Beers, T. C., Lee, Y. S., Placco, V. M.; Carollo, D., Christlieb, N., Fiorenza, S., Determination of Physical Parameter Estimates for Metal-Poor Stars from the HK and HES Surveys, American Astronomical Society, AAS Meeting #222, 2013
- 11. Beers, T. C., Placco, V. M.; Rossi, S., Christlieb, N., Kennedy, C., A New Survey for Carbon-Enhanced Metal-Poor Stars in the Halo(es) of the Galaxy, American Astronomical Society, AAS Meeting #221, 2013
- 10. Placco, V. M.; Beers, T. C., Rossi, S., Kennedy, C., Christlieb, N., Lee, Y. S., Making Good Use of Bad Weather: Finding Extremely Metal-Poor Stars in the Clouds, Astronomical Society of the Pacific, Conference Proceedings, 2012, vol. 458 p.77 (ADS)
- 9. Placco, V. M.; Rossi, S., Beers, T. C., Lucatello, S., Abundance Patterns Among Very Metal-Poor Stars in the Halo of the Galaxy: A Statistical Approach, Proceedings of the International Astronomical Union, 2010, vol. 262, p. 412-413 (ADS)

- 8. Placco, V. M.; Kennedy, C. R.; Rossi, S., Beers, T. C., Christlieb, N., Sivarani, T., A Search for Unrecognized Carbon-Enhanced Metal-Poor Stars, Proceedings of the International Astronomical Union, 2010, vol. 265, p. 132-133 (ADS)
- 7. Kennedy, C. R., Sivarani, T., Beers, T. C., Rossi, S., Placco, V. M., Johnson, J., Masseron, T., *Near-IR Spectroscopy of CEMP Stars with SOAR/OSIRIS*, Proceedings of the International Astronomical Union, 2010, vol. 265, p. 126-127 (ADS)
- 6. Kennedy, C., Beers, T. C., Nordstrom, B., Placco, V. M.; Rossi, S., Sivarani, T., CNO Abundances in Metal-Poor Stars, Proceedings of the 11th Symposium on Nuclei in the Cosmos, 2010 (ADS)
- 5. Kennedy, C. R., Sivarani, T., Beers, T. C., Rossi, S., Placco, V. M., Johnson, J., Masseron, T., *Near-IR Spectroscopy of CEMP Stars with OSIRIS*, American Astronomical Society, AAS Meeting #213, 2009
- Rossi, S., Placco, V. M.; Beers, T. C., Marsteller, B., Kennedy, C. R., Sivarani, T., Masseron, T., Plez, B., Refined Estimates of Carbon Abundances for Carbon-Enhanced Metal-Poor Stars, First Stars III Conference. AIP Conference Proceedings, 2008, vol. 990, pp. 154-156 (ADS)
- 3. Rossi, S., Placco, V. M.; Beers, T. C., Kennedy, C. R., Marsteller, B., Refined Estimates of [Fe/H] and [C/Fe] in Metal-Poor Stars, Proceedings of the 10th Symposium on Nuclei in the Cosmos, 2008 (ADS)
- 2. Kennedy, C. R., Sivarani, T., Beers, T. C., Lee, Y. S., Rossi, S., Placco, V. M., Near-IR Observations Of CEMP Stars With OSIRIS, American Astronomical Society, AAS Meeting #211, 2007
- Lichtenthäler, R., Lépine-Szily, A., Guimarães, V., Perego, C., Placco, V. M., Camargo, O., Denke, R., de Faria, P., Benjamim, E., Kuramoto, R., Added, N., Lima, G., Hussein, M., Kolata, J., Arazi, A., Radioactive Ion Beams in Brazil (RIBRAS), Exotic Nuclei 2004. Proceedings of the International Symposium, 2005. (ADS)