

Refereed articles

Total: 109 publications (incl. 16 first, 11 second, 15 third, and 15 fourth author articles)



109. 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
2022, *The Astrophysical Journal*, submitted
108. 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. An Extended Sample of Halo r-Process-Enhanced Stars
2022, *The Astrophysical Journal*, submitted
107. 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 disk star 2MASS J1808–5104 and its origins
2022, *Monthly Notices of the Royal Astronomical Society*, submitted
106. 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., Gourgoulatos, 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., Pajkos, M., Pignatari, M., Pizzone, R., [Placco, V. M.](#), et al.
Horizons: Nuclear Astrophysics in the 2020s and Beyond
2022, *Journal of Physics G*, submitted
105. Hackshaw, Z., Ezzeddine, R., Shank, D., Shah, S., Beers, T. C., Frebel, A. Hansen, T. T., Holmbeck, E. M., Ji, A. P., Kowkabany, J., [Placco, V. M.](#), Roederer, I. U., Sakari, C. M.
The R-Process Alliance: Accretion origin of a highly enhanced r-process star from an LMC UFD satellite
2022, *The Astrophysical Journal*, submitted

104. 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
2022, *The Astrophysical Journal*, submitted
103. 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., Sobek, J., [Placco, V. M.](#), Zoccali, M.
Abundance analysis of 58 APOGEE metal-poor spheroid bulge stars
2022, *Monthly Notices of the Royal Astronomical Society*, in press
- [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*, in press vol. 262, 8 ([ADS link](#) — [download 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 link](#) — [download 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 link](#) — [download pdf](#))
99. 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 link](#) — [download pdf](#))
98. 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
2022, *The Astrophysical Journal Supplement Series*, vol. 260, 27 ([ADS link](#) — [download 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 link](#) — [download pdf](#))
96. 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 link](#) — [download 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 deg² in 12 optical filters
2022, *Monthly Notices of the Royal Astronomical Society*, vol. 511, 4590 ([ADS link](#) — [download pdf](#))
94. Shank, D., Beers, T., [Placco, V. M.](#), Limberg, G., Jaques, E., Yuan, Zhen, Schlafman, 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*, in press ([ADS link](#) — [download 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., Akas, 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., Sodr   Jr., L., Angulo, R.
J-PLUS: Searching for very metal-poor star candidates using the SPEEM pipeline
2022, Astronomy & Astrophysics, vol. 657, A35 ([ADS link](#) — [download 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., Hern  n-Caballero, A., Hern  n-Monteagudo, C., J  n  n-Esteban, F., **Placco, V. M.**, Tempel, E., Alcaniz, J., Angulo, R., Dupke, R., Moles, M., Sodr   Jr., L.
J-PLUS: Systematic impact of metallicity on photometric calibration with the stellar locus
2021, Astronomy & Astrophysics, vol. 654, A61 ([ADS link](#) — [download pdf](#))
91. Bonoli, S., Mar  n-Franch, A., Varela, J., V  zquez Rami  , H., Abramo, L. R., Cenarro, A. J., Dupke, R. A., V  lchez, J. M., Crist  bal-Hornillos, D., Gonz  lez Delgado, R. M., Hern  n-Monteagudo, C., L  pez-Sanjuan, C., Muniesa, D., Civera, T., Ederoclite, A., Hern  n-Caballero, A., Marra, V., Baqui, P., Cortesi, A., Cypriano, E., Daflon, S., de Amorim, A., D  az-Garc  a, L., Diego, J., Mart  n  n-Solaeche, G., P  rez, E., **Placco, V. M.**, et al.
The miniJPAS survey: a preview of the Universe in 56 colours
2021, Astronomy & Astrophysics, vol. 653, A31 ([ADS link](#) — [download pdf](#))
90. Arentsen, A., Starkenburg, E., Aguado, D. S., Martin, N. F., **Placco, V. M.**, Carlberg, R., Gonz  lez Hern  n-Monteagudo, C., 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 link](#) — [download 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 link](#) — [download pdf](#))
88. Limberg, G., Santucci, R. M., Rossi, S., Shank, D., **Placco, V. M.**, Beers, T., Schlafman, K. C., Casey, A. R., Perotoni, 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 link](#) — [download pdf](#))
- 87. Placco, V. M.**, Roederer, I. U., Lee, Y. S., Almeida-Fernandes, F., Herpich, F. R., Perotoni, 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 link](#) — [download pdf](#))
86. Whitten, D. D., **Placco, V. M.**, Beers, T., An, D., Lee, Y. S., Almeida-Fernandes, F., Herpich, F., Daflon, S., Barbosa, C., Perotoni, 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 link](#) — [download pdf](#))
85. Fern  n-Monteagudo, C., Beers, T., Minniti, D., Carigi, L., **Placco, V. M.**, Chun, S., Lane, R., Geisler, D., Villanova, S. Souza, S., Barbuy, B., P  rez-Villegas, A., Chiappini, C., Queiroz, A., Tang, B., Alonso-Garc  a, J., Piatti, A., Palma, T., Alves-Brito, A., Moni Bidin, C., Roman-Lopes, A., Mu  oz, R., Singh, H., Kundu, R., Chaves-Velasquez, L., Romero-Colmenares, M., Longa-Pe  a, 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download 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., Sodr , L., Taylor, K.
The miniJPAS survey: star-galaxy classification using machine learning
2021, Astronomy & Astrophysics, vol. 645, A87 ([ADS link](#) — [download pdf](#))
81. Rasmussen, K., Zepeda, J., Beers, T. C., **Placco, V. M.**, Depagne,  ., Frebel, A., Dietz, S., Hartwig, T.
Metal-Poor Stars Observed with the Southern African Large Telescope
2020, The Astrophysical Journal, vol. 905, 20 ([ADS link](#) — [download pdf](#))
80. 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 link](#) — [download pdf](#))
79. Fern ndez-Trincado, J. G., Minniti, D., Beers, T., Villanova, S., Geisler, D., Souza, S., Smith, L., **Placco, V. M.**, Vieira, K., P rez-Villegas, A., Barbuy, B., Alves-Brito, A., Bidin, C. M., Alonso-Garc a, 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 link](#) — [download pdf](#))
78. Fern ndez-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 link](#) — [download pdf](#))
77. 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 link](#) — [download pdf](#))
76. 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., Mel ndez, 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 link](#) — [download 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., Mel ndez, 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 link](#) — [download pdf](#))
74. Cain, M., Frebel, A., Ji, A. P., **Placco, V. M.**, Ezzeddine, R., Roederer, I. U., Hattori, K., Beers, T. C., Mel ndez, 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 link](#) — [download 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 link](#) — [download 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., Akas, 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 link](#) — [download pdf](#))**
- 71. 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 link](#) — [download pdf](#))**
- 70. 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 link](#) — [download pdf](#))**
- 69. 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 link](#) — [download pdf](#))**
- 68. 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
2019, *The Astrophysical Journal*, vol. 887, 31 ([ADS link](#) — [download 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 link](#) — [download pdf](#))**
- 66. 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download pdf](#))
62. 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download pdf](#))
59. Sakari, C. M., Roederer, I. U., **Placco, V. M.**, Beers, T. C., Ezzeddine, R., Frebel, A., Hansen, T. T., Sneden, C., Cowan, J. J., Wallerstein, G., Farrell, E. M., Venn, K. A., Matijević, 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: Discovery of a Low- α , r-process-enhanced Metal-poor Star in the Galactic Halo
2019, The Astrophysical Journal, vol. 874, 148 ([ADS link](#) — [download 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 link](#) — [download 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 link](#) — [download 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., Sodr   Jr., L.
J-PLUS: Morphological star/galaxy classification by PDF analysis
2019, Astronomy & Astrophysics, vol. 622, A177 ([ADS link](#) — [download pdf](#))
55. Whitten, D. D., **Placco, V. M.**, Beers, T. C., Chies-Santos, A. L., Bonatto, C., Varela, J., Crist  bal-Hornillos, D., Ederoclite, A., Akas, S., Caballero, J. A., Coelho, P., Costa-Duarte, M. V., Borges Fernandes, M., Lopes de Oliveira, R., Orsi, A. A., V  zquez Rami  , H., Rossi, S., Cenarro, A. J., Daflon, S., Dupke, R. A., Mar  n-Franch, A., Mendes de Oliveria, C., Moles, M., Sodr  , L.

- J-PLUS: Identification of Low-Metallicity Stars with Artificial Neural Networks using SPHINX*
2019, Astronomy & Astrophysics, vol. 622, A182 ([ADS link](#) — [download 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 link](#) — [download 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., Matijević, 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 link](#) — [download 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⁻¹ Stream near Segue 1
2018, The Astrophysical Journal, vol. 866, 42 ([ADS link](#) — [download 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 link](#) — [download pdf](#))
- 50. 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download 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., Matijević, 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 link](#) — [download pdf](#))
- 45. 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 link](#) — [download 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 $[Fe/H] \sim -2$
2018, **The Astrophysical Journal Letters**, vol. 854, 20 ([ADS link](#) — [download 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., Murguía-Berthier, A., Pan, Y.-C., Prochaska, J. X., Ramírez-Ruiz, E., Rest, A., Adams, C., Alatalo, K., Banádos, 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.aag0186 ([ADS link](#) — [download pdf](#))
42. 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
2017, **The Astrophysical Journal Letters**, vol. 848, 12 ([ADS link](#) — [download 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., Akas, 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., Schneider, M., Sodré, L., Starck, M., Torres-Flores, S., Tornatore, M., Zdrozny, 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 link](#) — [download 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 link](#) — [download pdf](#))
39. Kieley, 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 link](#) — [download 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., Mészáros, 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 link](#) — [download pdf](#))
37. 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download pdf](#))
33. van Weeren, R. J., Andrade-Santos, F., Dawson, W. A., Golovich, N., Lal, D. V., Kang, H., Ryu, D., Brüggen, M., Oglean, 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](#) — [download 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](#) — [download 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download pdf](#))
- 28.** **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 link](#) — [download 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 link](#) — [download pdf](#))
26. 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download pdf](#))
21. 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 link](#) — [download pdf](#))
20. 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download pdf](#))
16. 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download pdf](#))
13. 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 link](#) — [download 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 link](#) — [download 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 link](#) — [download pdf](#))
10. 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 link](#) — [download pdf](#))
9. 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 link](#) — [download 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 $[Fe/H] \leq -3.5$
2014, The Astrophysical Journal, vol. 781, 40 ([ADS link](#) — [download 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 link](#) — [download 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 link](#) — [download pdf](#))
- 5. 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
2011, The Astronomical Journal, vol. 142, 188 ([ADS link](#) — [download 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 link](#) — [download pdf](#))
- 3. 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
2010, The Astronomical Journal, vol. 139, 1051 ([ADS link](#) — [download 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 link](#) — [download pdf](#))
1. 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 link](#) — [download pdf](#))

Proceedings, non-refereed publications and abstracts

48. Merino, B., **Placco, V. M.**, Stanghellini, L.
The US NGO GMOS Data Reduction Cookbook: Version 2.0
2022, 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., Maicas, 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 link](#))

- 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 link](#) — [download 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 link](#))
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 link](#))
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 link](#))
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 link](#))
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 link](#))
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 link](#))
36. Yoon, J., Whitten, D. D., Beers, T. C., **Placco, V. M.**, Lee, Y. S., Dietz, S., Gudín, 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 link](#))
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 link](#))
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 link](#))
33. 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 link](#))
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 link](#))
- 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 link](#))
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 link](#))

-
29. van Weeren, R. J., Andrade-Santos, F., Dawson, W. A., Golovich, N., Lal, D. V., Kang, H., Ryu, D., Brüggen, M., Ogorean, 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., Sobek, 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 link](#))
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**
-

13. 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 link](#))
- 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 link](#))
- 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 link](#))
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 link](#))
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 link](#))
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**
4. 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 link](#))
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 link](#))
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**
1. 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 link](#))