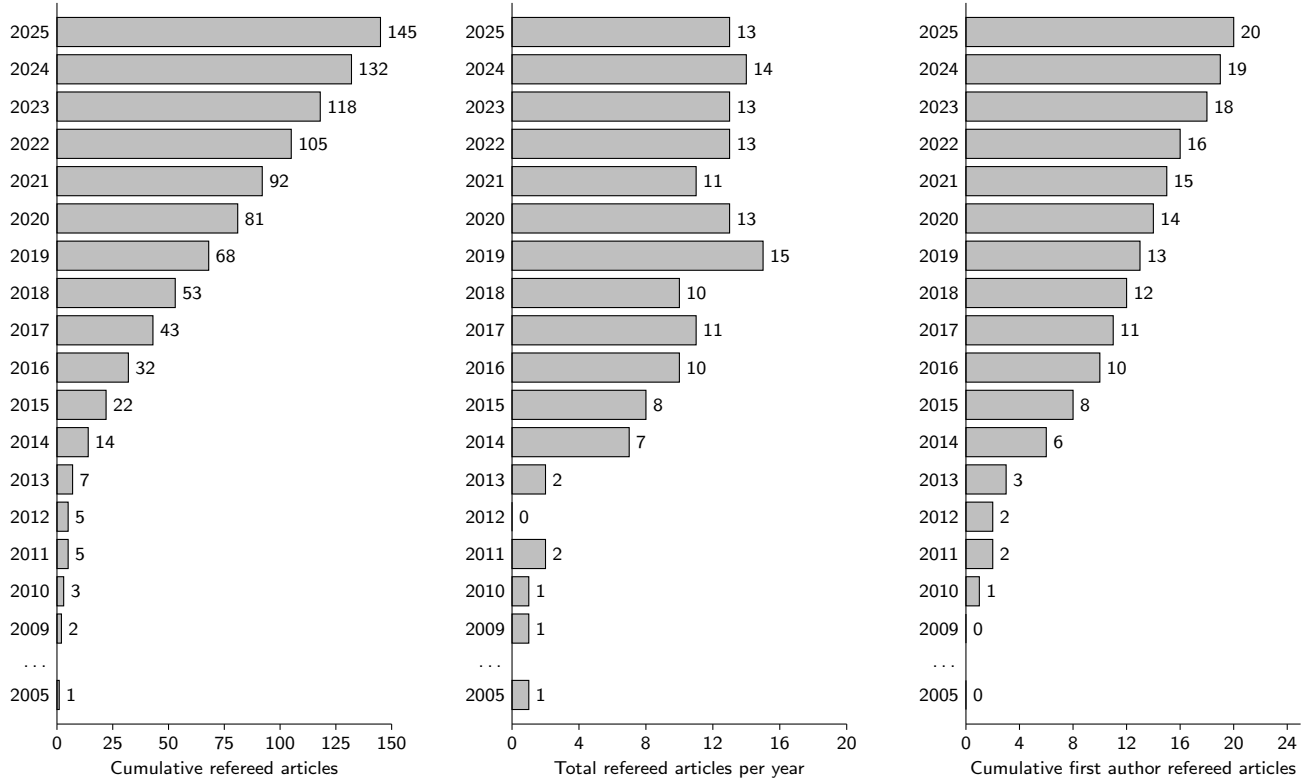


Refereed articles

Total: 145 publications (incl. 20 first, 14 second, 18 third, and 15 fourth author articles)



145. Pace, A. B., Li, T. S., Ji, A. P., Simon, J. D., Cerny, W., Senkevich, A. M., Drlica-Wagner, A., Bechtol, K., Tan, C. Y., Chiti, A., Erkal, D., Martínez-Vázquez, C. E., Ferguson, P. S., Kron, R. G., Atzberger, K., Chaturvedi, A., Frieman, J. A., Kallivayalil, N., Limberg, G., Medina, G. E., **Placco, V. M.**, Riley, A. H., Sand, D. J., van der Marel, R. P., Carballo-Bello, J. A., Choi, Y., Crnojević, D., Massana, P., Mutlu-Pakdil, B., Navabi, M., Noël, N. E., Sakowska, J. D., Stringfellow, G. S.

Spectroscopic Analysis of Pictor II: a very low metallicity ultra-faint dwarf galaxy bound to the Large Magellanic Cloud

2025, The Open Journal of Astrophysics, submitted

144. Machado-Pereira, E., Daflon, S., **Placco, V. M.**, Cruz, P., Borges Fernandes, M., Jiménez-Esteban, F., Caballero, J. A., Anguiano, B., Yuan, H., Bonatto, C., Alvarez-Candal, A., Cenarro, J., Cristóbal-Hornillos, D., Hernández-Monteagudo, C., López-Sanjuan, C., Marín-Franch, A., Moles, M., Varela, J., Vázquez Ramió, H., Alcaniz, J., Dupke, R., Ederoclite, A., Sodr   Jr., L., Angulo, R.

J-PLUS: Metallicity determination in open clusters using machine learning

2025, Monthly Notices of the Royal Astronomical Society, submitted

- 143. Placco, V. M.**, Limberg, G., Chiti, A., Prabhu, D. S., Ji, A. P., Barbosa, F. O., Cerny, W., Pace, A. B., Stringfellow, G. S., Sand, D. J., Martínez-Vázquez, C. E., Riley, A. H., Rossi, S., Noël, N. E. D., Vivas, A. K., Medina, G. E., Drlica-Wagner, A., Sakowska, J. D., Mutlu-Pakdil, B., Massana, P., Carballo-Bello, J. A., Choi, Y., Crnojević, D., Tan, C. Y.

The DECam MAGIC Survey: Spectroscopic Follow-up of the Most Metal-Poor Stars in the Distant Milky Way Halo

2025, The Astrophysical Journal, in press

142. Limberg, G., **Placco, V. M.**, Ji, A. P., Yao, Y., Chiti, A., Mardini, M. K., Frebel, A., Rossi, S.

- Discovery of an $[Fe/H] \sim -4.8$ Star in Gaia XP Spectra*
2025, The Astrophysical Journal Letters, in press
141. Barbosa, F. O., Chiti, A., Limberg, G., Pace, A., Cerny, W., Rossi, S., Carlin, J. L., Stringfellow, G., **Placco, V. M.**, Atzerberg, K., Carballo-Bello, J. A., Chaturvedi, A., Choi, Y., Crnojević, D., Drlica-Wagner, A., Ji, A., Kallivayalil, N., Martínez-Vázquez, C., Medina, G., Noël, N., Sand, D., Vivas, A. K., Bom, C., Ferguson, P., Mutlu-Pakdil, B., Navabi, M., Riley, A. H., Sakowska, J., Zenteno, A.
The DECam MAGIC Survey: A Wide-field Photometric Metallicity Study of the Sculptor Dwarf Spheroidal Galaxy
2025, The Astrophysical Journal, in press
140. Hirai, Y., Beers, T., Lee, Y. S., Wanajo, S., Roederer, I. U., Tanaka, M., Chiba, M., Saitoh, T., **Placco, V. M.**, Hansen, T. T., Ezzeddine, R., Frebel, A., Holmbeck, E. M., Sakari, C. M.
The R-Process Alliance: Enrichment of R-process Elements in a Simulated Milky Way-like Galaxy
2025, The Astrophysical Journal, in press
139. Bandyopadhyay, A., Ezzeddine, R., **Placco, V. M.**, Frebel, A., Aguado, D. S., Roederer, I. U.
Probing Abundance Variations Among Multiple Stellar Populations in the Metal-poor Globular Cluster NGC 2298 Using Gemini-South/GHOST
2025, The Astronomical Journal, vol. 170, 37 ([ADS](#))
138. Aoki, W., Beers, T. C., Honda, S., Matsuno, T., **Placco, V. M.**, Yoon, J., Kuzuhara, M., Harakawa, H., Hirano, T., Kotani, T., Kurokawa, T., Nishikawa, J., Omiya, M., Tamura, M., Vievard, S.
Elemental abundances of 44 very metal-poor stars determined from Subaru/IRD near-infrared spectra
2025, Publications of the Astronomical Society of Japan, vol. 77, 502 ([ADS](#))
137. Quispe-Huaynasi, F., Roig, F., Holanda, N., Loaiza-Tacuri, V., Eleutério, R., Pereira, C. B., Daflon, S., **Placco, V. M.**, Lopes de Oliveira, R., Sestito, F., Humire, P. K., Borges Fernandes, M., Kanaan, A., Mendes de Oliveira, C., Ribeiro, T., Schoenell, W.
An Unsupervised Machine Learning Approach to Identify Spectral Energy Distribution Outliers: Application to the S-PLUS DR4 Data
2025, The Astronomical Journal, vol. 169, 332 ([ADS](#))
136. Hansen, T. T., Roederer, I. U., Shah, S., Ezzeddine, R., Beers, T., Frebel, A., Holmbeck, E. M., **Placco, V. M.**, Sakari, C. M., Ji, A. P., Marshall, J. L., Mardini, M. K., Chiti, A.
The R-Process Alliance: Hunting for gold in the near-UV spectrum of 2MASS J05383296–5904280
2025, Astronomy & Astrophysics, vol. 697, A127 ([ADS](#))
135. Rodriguez, C. N., Ferrero, G., Benvenuto, O., Ansin, T., Gamen, R., Morrell, N., Higa, R., Putkuri, C., Johnston, C., Chiboucas, K., Deibert, E., Hayes, C., Heo, J., Jeong, M., Kalari, V., Martioli, E., **Placco, V. M.**, Venn, K., Xu, S., Diaz, R., Gomez-Jimenez, M., Ruiz-Carmona, R., Simpson, C., McConnachie, A. W., Pazder, J., Burley, G., Berg, T. A. M., Robertson, J. G., Labrie, K., Thomas-Osip, J.
The Secondary Component of the Extremely Low Mass Ratio Massive Binary HD 165246 Revealed by GHOST
2025, The Astrophysical Journal, vol. 980, 169 ([ADS](#))
134. Cerny, W., Chiti, A., Geha, M., Mutlu-Pakdil, B., Drlica-Wagner, A., Tan, C. Y., Adamów, M., Pace, A. B., Simon, J. D., Sand, D. J., Ji, A. P., Li, T. S., Vivas, A. K., Bell, E. F., Carlin, J. L., Carballo-Bello, J. A., Chaturvedi, A., Choi, Y., Doliva-Dolinsky, A., Gnedin, O. Y., Limberg, G., Martínez-Vázquez, C. E., Mau, S., Medina, G. E., Navabi, M., Noël, N. E. D., **Placco, V. M.**, Riley, A. H., Roederer, I. U., Stringfellow, G. S., Bom, C. R., Ferguson, P. S., James, D. J., Martínez-Delgado, D., Massana, P., Nidever, D. L., Sakowska, J. D., Santana-Silva, L., Sherman, N. F., Tollerud, E. J.
Discovery and Spectroscopic Confirmation of Aquarius III: A Low-mass Milky Way Satellite Galaxy
2025, The Astrophysical Journal, vol. 979, 164 ([ADS](#))
133. Ferreira Lopes, C. E., Gutiérrez-Soto, L. A., Ferreira Alberice, V. S., Monsalves, N., Hazarika, D., Catelan, M., **Placco, V. M.**, Limberg, G., Almeida-Fernandes, F., Perottoni, H. D., Smith Castelli, A. V., Akas, S., Alonso-García, J., Cordeiro, V., Jaque Arancibia, M., Daflon, S., Dias, B., Machado-Pereira, E., Lopes, A. R., Bom,

- C. R., Thom de Souza, R., de Oliveira, N., Alvarez-Candal, A., De Rossi, M., Bonatto, C., Cubillos Palma, B., Borges Fernandes, M., Humire, P., Oliveira Schwarz, G., Schoenell, W., Kanaan, A., Mendes de Oliveira, C.
Stellar atmospheric parameters and chemical abundances of ~ 5 million stars from S-PLUS multi-band photometry
2025, Astronomy & Astrophysics, vol. 693, A306 ([ADS](#))
- 132. Placco, V. M.**, Gupta, A. F., Almeida-Fernandes, F., Logsdon, S. E., Rajagopal, J., Holmbeck, E. M., Roederer, I. U., Della Costa, J., Fernandez, P., Golub, E., Higuera, J., Patel, Y., Ridgway, S., Schweiker, H.
BD+44° 493: Chemo-Dynamical Analysis and Constraints on Companion Planetary Masses from WIYN/NEID Spectroscopy
2024, The Astrophysical Journal, vol. 977, 12 ([ADS](#))
- 131. Barbuy, B., Friaça, A., Ernandes, H., da Silva, P., Souza, S., Fernández-Trincado, J., Cunha, K., Smith, V., Masseron, T., Pérez-Villegas, A., Chiappini, C., Queiroz, A., Santiago, B., Beers, T., Anders, F., Schiavon, R., Valentini, M., Minniti, D., Geisler, D., Souto, D., **Placco, V. M.**, et. al.**
- Abundances of iron-peak elements in 58 bulge spheroid stars from APOGEE*
2024, Astronomy & Astrophysics, vol. 691, A296 ([ADS](#))
- 130. Herpich, F. R., Almeida-Fernandes, F., Oliveira Schwarz, G. B., Lima, E., Nakazono, L., Alonso-Garcia, J., Fonseca-Faria, M., Sartori, M., Bolutavicius, G., Fabiano de Souza, G., Hartmann, E., Li, L., Espinosa, L., Kanaan, A., Schoenell, W., Werle, A., Machado-Pereira, E., Gutierrez-Soto, L., Santos-Silva, T., Smith Castelli, A., Lacerda, E., Barbosa, C., Perottoni, H., Ferreira Lopes, C., Valença, R., Re Martho, P., Bom, C., Bonatto, C., Carvalho, M., Cernic, V., Coelho, P., Cortesi, A., Cubillos Palma, B., Ferreira Alberice, V., Huaynasi, F., Jacob Perin, G., Jaque Arancibia, M., Krabbe, A., Lima-Dias, C., Lomeli-Nunez, L., Lopes de Oliveira, R., Luiz Figueiredo, A., Losch, E., Navarete, F., Oliveira, J., Overzier, R., **Placco, V. M.**, et al.**
- The Fourth S-PLUS Data Release: 12-filter photometry covering 3000 square degrees in the Southern Hemisphere*
2024, Astronomy & Astrophysics, vol. 689, 249 ([ADS](#))
- 129. Bandyopadhyay, A., Ezzeddine, R., Allende Prieto, C., Aria, N., Shah, S. P., Beers, T., Frebel, A., Holmbeck, E. M., Hansen, T. T., **Placco, V. M.**, Roederer, I. U., Sakari, C. M.**
- The R-Process Alliance: Fifth Data Release from the Search for R-process-enhanced Metal-poor Stars in the Galactic Halo with the Gran Telescopio Canarias*
2024, The Astrophysical Journal Supplement Series, vol. 274, 39 ([ADS](#))
- 128. Kalari, V., Diaz, R., Robertson, J. G., McConnachie, A. W., Ireland, M., Salinas, R., Young, P., Simpson, C., Hayes, C. R., Nielsen, J., Burley, G., Pazder, J., Gomez-Jimenez, M., Martioli, E., Howell, S. B., Jeong, M., Juneau, S., Ruiz-Carmona, R., Margheim, S., Sheinis, A., Anthony, A., Baker, G., Berg, T. A. M., Cao, T., Chapin, E., Chin, T., Chiboucas, K., Churilov, V., Deibert, E. K., Densmore, A., Dunn, J., Edgar, M. L., Heo, J., Henderson, D., Farrell, T., Font, J., Firpo, V., Fuentes, J., Labrie, K., Lambert, S., Lawrence, J., Lothrop, J., McDermid, R., Miller, B. W., Perez, G., **Placco, V. M.**, Prado, P., Quiroz, C., Ramos, F., Rutten, R., Silva, K., Thomas-Osip, J., Urrutia, C., Vacca, W., Venn, K., Waller, F., Waller, L., White, M., Xu, S., Zhelem, R.**
- Gemini High-resolution Optical SpecTrograph (GHOST) at Gemini-South: Instrument performance and integration, first science, and next steps*
2024, The Astronomical Journal, vol. 168, 208 ([ADS](#))
- 127. Perottoni, H. D., **Placco, V. M.**, Almeida-Fernandes, F., Herpich, F. R., Rossi, S., Beers, T., Smiljanic, R., Amarante, J., Limberg, G., Werle, A., Rocha-Pinto, H., Beraldo e Silva, L., Daflon, S., Alvarez-Candal, A., Schoenell, W., Ribeiro, T., Kanaan, A.**
- The S-PLUS Ultra-Short Survey: First Data Release*
2024, Astronomy & Astrophysics, vol. 691, 138 ([ADS](#))
- 126. Kowkabany, J., Ezzeddine, R., Charbonnel, C., Roederer, I. U., Wang, E. X., Li, Y., Hackshaw, Z., Beers, T. C., Frebel, A., Hansen, T. T., Holmbeck, E. M., **Placco, V. M.**, Sakari, C. M.**
- Discovery of a Metal-Poor Red Giant Star with the Highest Ultralithium Enhancement*
2024, The Astrophysical Journal, vol. 973, 125 ([ADS](#))

125. Deibert, E. K., Langeveld, A., Young, M. E., Flagg, L., Turner, J. D., de Mooij, E., Jayawardhana, R., Smith, P., Chiboucas, K., Gamen, R., Hayes, C. R., Heo, J., Jeong, M., Kalari, V., Martioli, E., **Placco, V. M.**, Venn, K., Xu, S., Diaz, R., Gomez-Jimenez, M., Henderson, D., Prado, P., Quiroz, C., Ruiz-Carmona, R., Simpson, C., Urrutia, C., McConnachie, A. W., Pazder, J., Burley, G., Ireland, M., Waller, F., Berg, T. A. M., Robertson, J. G., Hartman, Z., Jones, D. O., Labrie, K., Lee, J., Miller, B., Perez, G., Ridgway, S., Thomas-Osip, J.
Results from the GHOST/Gemini South System Verification Run: High-Resolution Dayside Spectroscopy of WASP-189b
2024, The Astronomical Journal, vol. 168, 148 ([ADS](#))
124. Roederer, I. U., Beers, T. C., Hattori, K., **Placco, V. M.**, Hansen, T. T., Ezzeddine, R., Frebel, A., Holmbeck, E., Sakari, C. M.
The R-Process Alliance: 2MASS J22132050–5137385, the Star with the Highest-known r-process Enhancement at $[Eu/Fe] = +2.45$
2024, The Astrophysical Journal, vol. 971, 158 ([ADS](#))
123. Xylakis-Dornbusch, T., Hansen, T. T., Beers, T. C., Christlieb, N., Ezzeddine, R., Frebel, A., Holmbeck, E., **Placco, V. M.**, Roederer, I. U., Sakari, C. M., Sneden, C.
The R-Process Alliance: Analysis of Limited-r Stars
2024, Astronomy & Astrophysics, vol. 688, 123 ([ADS](#))
122. Shah, S., Ezzeddine, R., Roederer, I. U., Hansen, T. T., **Placco, V. M.**, Beers, T. C., Frebel, A., Ji, A. P., Holmbeck, E. M., Marshall, J., Sakari, C. M.
The R-Process Alliance: Detailed Chemical Composition of an R-Process Enhanced Star with UV and Optical Spectroscopy
2024, Monthly Notices of the Royal Astronomical Society, vol. 529, 1917 ([ADS](#))
121. Dovgal, A., Venn, K., Sestito, F., Hayes, C., McConnachie, A., Navarro, J., **Placco, V. M.**, Starkenburg, E., Martin, N. F., Pazder, J., Chiboucas, K., Deibert, E., Gamen, R., Heo, J., Jeong, M., Kalari, V., Martioli, E., Xu, S., Diaz, R., Gomez-Jimenez, M., Henderson, D., Prado, P., Quiroz, C., Robertson, J., Ruiz-Carmona, R., Simpson, C., Urrutia, C., Waller, F., Berg, T., Burley, G., Hartman, Z., Ireland, M., Margheim, S., Perez, G., Thomas-Osip, J.
Probing the early Milky Way with GHOST spectra of an extremely metal-poor star in the Galactic disk
2024, Monthly Notices of the Royal Astronomical Society, vol. 527, 7810 ([ADS](#))
120. Quispe-Huaynasi, F., Roig, F., **Placco, V. M.**, Beraldo e Silva, L., Pereira, C. B., Daflon, S., Kanaan, A., Mendes de Oliveira, C., Ribeiro, T., Schoenell, W.
Characterisation of high velocity stars in the S-PLUS internal fourth data release
2024, Monthly Notices of the Royal Astronomical Society, vol. 527, 6173 ([ADS](#))
119. Spalding, E., Wilhelm, R., De Lee, N., Long, S., Beers, T. C., **Placco, V. M.**, Kielkopf, J., Lee, Y. S., Pepper, J., Carrell, K.
RRLFE: Software for Generating and Applying Metallicity Calibrations for RR Lyrae Variable Stars Across a Wide Range of Phases and Temperatures
2024, Monthly Notices of the Royal Astronomical Society, vol. 527, 828 ([ADS](#))
- 118. Placco, V. M.**, Almeida-Fernandes, F., Holmbeck, E. M., Roederer, I. U., Mardini, M. K., Hayes, C. R., Venn, K., Chiboucas, K., Deibert, E., Gamen, R., Heo, J., Jeong, M., Kalari, V., Martioli, E., Xu, S., Diaz, R., Gomez-Jimenez, M., Henderson, D., Prado, P., Quiroz, C., Ruiz-Carmona, R., Simpson, C., Urrutia, C., McConnachie, A. W., Pazder, J., Burley, G., Ireland, M., Waller, F., Berg, T. A. M., Robertson, J. G., Hartman, Z., Jones, D. O., Labrie, K., Perez, G., Ridgway, S., Thomas-Osip, J.
SPLUS J142445.34–254247.1: An R-Process Enhanced, Actinide-Boost, Extremely Metal-Poor star observed with GHOST
2023, The Astrophysical Journal, vol. 959, 60 ([ADS](#))
117. Roederer, I. U., Vassh, N., Holmbeck, E. M., Mumpower, M. R., Surman, R., Cowan, J. J., Beers, T. C., Ezzeddine, R., Frebel, A., Hansen, T. T., **Placco, V. M.**, Sakari, C. M.

- Element abundance patterns in stars indicate fission of nuclei heavier than uranium*
2023, *Science*, vol. 382, 1177 ([ADS](#))
116. Barbuy, B., Friaça, A., Ernandes, H., Moura, T., Masseron, T., Cunha, K., Smith, V., Souto, D., Pérez-Villegas, A., Souza, S., Chiappini, C., Queiroz, A., Fernández-Trincado, J., da Silva, P., Santiago, B., Anders, F., Schiavon, R., Valentini, M., Minniti, D., Geisler, D., **Placco, V. M.**, et. al.
Light elements Na and Al in 58 bulge spheroid stars from APOGEE
2023, *Monthly Notices of the Royal Astronomical Society*, vol. 526, 2365 ([ADS](#))
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](#))
114. 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
2023, *Monthly Notices of the Royal Astronomical Society*, vol. 523, 2934 ([ADS](#))
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](#))
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., Sodr   Jr., L., V  zquez Rami  , 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](#))
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](#))
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](#))
- 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](#))
108. Garro, E. R., Fern  ndez-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., Af  sar, M., Frelizz, H., Lane, R. R.
Gaia-IGRINS synergy: Orbits of Newly Identified Milky Way Star Clusters
2023, *Astronomy & Astrophysics*, vol. 669, A136 ([ADS](#))
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](#))
106. Yuan, H. -B., Yang, L., Cruz, P., Jim  nez-Esteban, F., Daflon, S., **Placco, V. M.**, Akas, S., Alfaro, E. J., Galarza, C. A., Gon  alves, D., Liu, J. -F., Cenarro, A., Mar  n-Franch, A., Varela, J., Ederoclite, A., L  pez-Sanjuan, C., Abramo, R., Alcaniz, J., Ben  tez, N., Bonoli, S., Crist  bal-Hornillos, D., Dupke, R. A., Hern  n-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](#))
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., Pajkos, 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](#))
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., 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*, vol. 517, 4590 ([ADS](#))
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](#))
- [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](#))
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](#))
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](#))
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](#))
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](#))

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](#))
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](#))([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](#))
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*, vol. 926, 26 ([ADS](#))
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](#))
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](#))
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-Solaache, 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](#))
90. 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](#))
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](#))
88. Limberg, G., Santucci, R. M., Rossi, S., Shank, D., [Placco, V. M.](#), Beers, T., Schlafman, 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](#))
- 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](#))
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](#))
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](#))
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](#))
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](#))
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.**, Quartín, 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](#))
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](#))
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](#))
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](#))
78. 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](#))
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](#))
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., 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](#))
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](#))
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](#))
- 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](#))
72. Molino, A., Costa-Duarte, M. V., Sampedro, L., Herpich, F. R., Sodr , L., Jr., Mendes de Oliveira, C., Schoenell, W., Barbosa, C. E., Queiroz, C., Lima, E. V. R., Azanha, L., Mu oz-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., Jim nez-Teja, Y., Coelho, P., Pereira, E., Montero-Dorta, A. D., Ben tez, N., Gon alves, 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., Gon alves, 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](#))
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](#))
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](#))
69. Yuan, Z., Myeong, G. C., Beers, T. C., Evans, N. W., Lee, Y. S., Banerjee, P., Gudim, 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](#))
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., Br uggen, 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](#))
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](#))
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](#))
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., Sodr   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](#))
64. Whitten, D. D., Beers, T. C., **Placco, V. M.**, Santucci, R. M., Denisenkov, P., Tissera, P. B., Mej  as, 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](#))
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](#))
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](#))
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](#))
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](#))
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., Matijevi  , 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](#))
58. Hansen, C. J., Hansen, T. T., Koch, A., Beers, T. C., Nordstr  m, 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](#))

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](#))
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](#))
55. Whitten, D. D., **Placco, V. M.**, Beers, T. C., Chies-Santos, A. L., Bonatto, C., Varela, J., Crist  bal-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., V  quez 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](#))
- 54. Placco, V. M.**, Santucci, R. M., Beers, T. C., Chanam  , J., Sep  lveda, 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](#))
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., Matijevi  , 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](#))
52. Wanying Fu, S., Simon, J. D., Shetrone, M., Bovy, J., Beers, T. C., Fern  ndez-Trincado, J., **Placco, V. M.**, Zamora, O., Allende-Prieto, C., Garc  a-Hern  ndez, 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](#))
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](#))
50. Cain, M., Frebel, A., Gull, M., Ji, A. P., **Placco, V. M.**, Beers, T. C., Mel  ndez, 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](#))
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](#))
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](#))
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](#))
- 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](#))
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](#))
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](#))
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., Ramirez-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](#))
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](#))
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., Rodríguez, H., Sampedro, L., Schneider, M., Sodr , 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](#))
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](#))

39. 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](#))
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., NITSCHHELM, C., HARDING, P., BIZYAIEV, 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](#))
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](#))
- 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](#))
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](#))
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](#))
33. 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](#) —)
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](#) —)
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](#))
- 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](#))
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](#))

-
- 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](#))
- 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](#))
- 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](#))
- 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](#))
- 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](#))
- 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](#))
- 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](#))
- 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](#))
- 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](#))
- 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](#))
- 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](#))
- 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](#))
- 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](#))
-

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](#))
- 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](#))
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](#))
- 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](#))
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](#))
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](#))
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](#))
- 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](#))
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](#))
- 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](#))
- 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](#))
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](#))
- 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](#))

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](#))
1. Lichtenthaler, R., Lepine-Szily, A., Guimaraes, 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](#))

Proceedings, non-refereed publications and abstracts

59. Ji, A. P., Casey, A. R., Ting, Y., Holmbeck, E. M., Frebel, A., Usman, S. A., Limberg, G., Shah, S. P., Chiti, A., Ezzeddine, R., Hansen, T. T., **Placco, V. M.**, Roederer, I. U., Sakari, C. M. *LESSPayne: Labeling Echelle Spectra with SMHR and Payne* **2025**, *Astrophysics Source Code Library*, record ascl:2503.025 ([ADS](#))
- [58](#). **Placco, V. M.**, Herrera, D., Merino, B. M., Hirst, P., Labrie, K., Simpson, C., Turner, J., Vacca, W. D., Deibert, E., Diaz, R., Heo, J., Kalari, V., Reggiani, H., Rodriguez, C., Ruiz-Carmona, R., Thomas-Osip, J. *GHOST Reduced Data Products for the Gemini Observatory Community and Beyond* **2024**, *Research Notes of the American Astronomical Society*, vol. 8, 12 ([ADS](#))
57. Fitzpatrick, M., **Placco, V. M.** *NOIRLab IRAF - Modernizing Legacy Software to Support Gemini Data Reduction and Beyond* **2024**, *NSF's NOIRLab The Mirror*, issue #7 ([The Mirror](#) — [ADS](#))
56. Fitzpatrick, M., **Placco, V. M.**, Bolton, A., Merino, B., Ridgway, S., Stanghellini, L. *Modernizing IRAF to Support Gemini Data Reduction* **2024**, *Astronomical Data Analysis Software & Systems XXXIII* ([ADS](#) — [Preprint](#))
55. Rantakyro, F., Kalari, V., **Placco, V. M.** *GHOST: High-Resolution Optical Spectroscopy at Gemini South* **2024**, *NSF's NOIRLab The Mirror*, issue #6 ([The Mirror](#) — [ADS](#))
54. Merino, B., **Placco, V. M.**, Stanghellini, L. *US NGO Completes the Science Verification of the GNIRS XD Pipeline* **2024**, *NSF's NOIRLab The Mirror*, issue #6 ([The Mirror](#) — [ADS](#))
53. Labrie, K., Simpson, C., Cardenes, R., Turner, J., Soraisam, M., Quint, B., Oberdorf, O., **Placco, V. M.**, Berke, D., Smirnova, O., Conseil, S., Vacca, W. D., Thomas-Osip, J. *DRAGONS-A Quick Overview* **2023**, *Research Notes of the American Astronomical Society*, vol. 7, 214 ([ADS](#) — [PDF](#))
- [52](#). **Placco, V. M.**, Stanghellini, L. *The US National Gemini Office at NSF's NOIRLab* **2023**, *NSF's NOIRLab The Mirror*, issue #5 ([The Mirror](#) — [ADS](#))
51. Morate, D., Mahlke, M., lvarez-Candal, A., Ederoclite, A., Vzquez Rami, H., Siffert, B. B., **Placco, V. M.**, *Asteroids & J-Var*, **Spanish Meeting of Planetary Sciences and Solar System Exploration**, **2023** ([ADS](#))
50. Roederer, I. U., Vassh, N., Holmbeck, E. M., Mumpower, M., Surman, R., Cowan, J., Beers, T. C., Ezzeddine, R., Frebel, A., Hansen, T., **Placco, V. M.**, Sakari, C. *Evidence for transuranic fission fragments in stars*, **American Astronomical Society, AAS Meeting #241**, **2023** ([ADS](#))
49. Lang, A., Roederer, I. U., Holmbeck, E. M., HAttori, K., Beers, T. C., Ezzeddine, R., Frebel, A., Hansen, T., **Placco, V. M.**, Sakari, C. *Comparing detailed abundances of highly r-process-enhanced stars in the halo of the Milky Way to determine the masses of neutron star merger progenitors*, **American Astronomical Society, AAS Meeting #241**, **2023** ([ADS](#))

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](#))
- [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., Maicas, 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., 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](#))
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](#))
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](#))
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](#))
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., 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**
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](#))
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**
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](#))
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**
1. Lichtenh ler, R., L pine-Szily, A., Guimar es, 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](#))