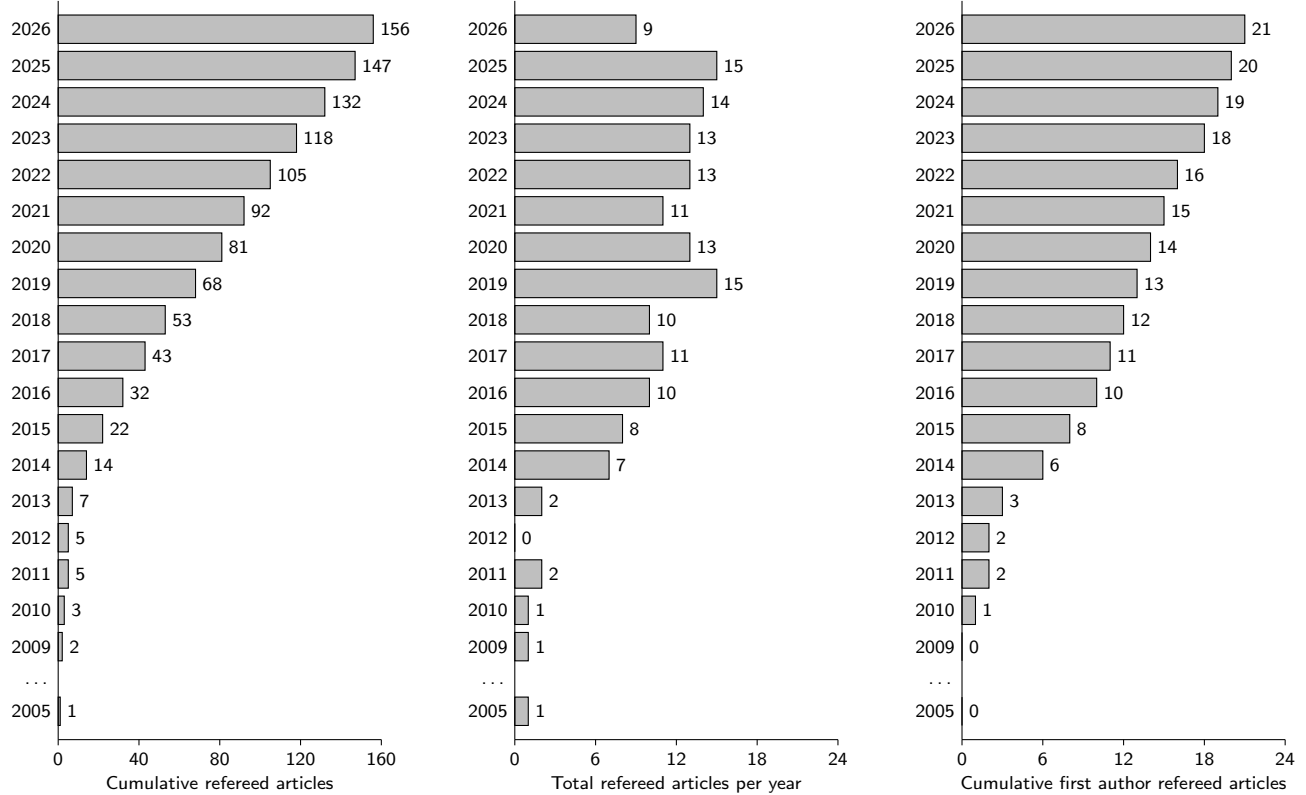


## Refereed articles

Total: 156 publications (incl. 21 first, 15 second, 18 third, and 16 fourth author articles)



## First Author (\* for relevant non-refereed publications)

- 21. Placco, V. M.**, Limberg, G., Kennedy, C., Christlieb, N.  
*HE 0144–4657: A Carbon-Enhanced Ultra Metal-Poor Star ( $[Fe/H] \sim -4.1$ ) from the Helmi Stream Disrupted Dwarf Galaxy*  
**2026**, *The Astrophysical Journal Letters*, submitted
- 20. 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 MW Halo*  
**2025**, *The Astrophysical Journal*, vol. 991, 101 ([ADS](#))
- 19. 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](#))
- \* **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](#))

- 18. 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., Martoli, 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](#))
- 17. 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](#))
- 16. 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](#))
- 15. 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](#))
- ★ **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](#))
- 14. 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](#))
- 13. 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.  
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**2019**, *The Astrophysical Journal*, vol. 870, 122 ([ADS](#))
- 12. 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](#))
- 11. Placco, V. M.**, Holmbeck, E. M., Frebel, A., Beers, T. C., Surman, R. A., Ji, A. P., Ezzeddine, 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](#))
- 10. 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](#))
- 9. 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](#))

8. [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](#))
7. [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](#))
6. [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](#))
5. [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](#))
4. [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](#))
3. [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](#))
2. [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](#))
1. [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](#))

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15. Roederer, I. U., [Placco, V. M.](#), Karakas, A. I., Den Hartog, E. A., Beers, T. C.  
*Abundances of Rarely Detected s-process Elements Derived from the Ultraviolet Spectrum of the s-process-enhanced Metal-poor Star HD 196944*  
**2025**, *The Astrophysical Journal*, vol. 995, 2 ([ADS](#))
14. 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*, vol. 989, 18 ([ADS](#))
- \* Fitzpatrick, M., [Placco, V. M.](#), Bolton, A., Merino, B., Ridgway, S., Stanghellini, L.  
*Modernizing IRAF to Support Gemini Data Reduction*  
**2025**, *Astronomical Data Analysis Software & Systems XXXIII* ([ADS](#))
13. Perotoni, 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](#))

12. 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](#))
11. 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](#))
10. 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](#))
9. 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](#))
8. 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](#))
7. Whitten, D. D., **Placco, V. M.**, Beers, T. C., Chies-Santos, A. L., Bonatto, C., Varela, J., Cristóbal-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., Vázquez Ramió, H., Rossi, S., Cenarro, A. J., Daflon, S., Dupke, R. A., Marín-Franch, A., Mendes de Oliveira, 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](#))
6. 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](#))
5. 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](#))
4. 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](#))
3. Roederer, I. U., **Placco, V. M.**, Beers, T. C.  
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2. Mel ndez, J., **Placco, V. M.**, Tucci-Maia, M., Ram rez, I., Li, T. S., Perez, G.,  
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**2016, Astronomy & Astrophysics - Letter to the Editor**, vol. 585, L5 ([ADS](#))

1. Santucci, R. M., **Placco, V. M.**, Rossi, S., Beers, T. C., Reggiani, H. M., Lee, Y. S., Xue, X. X., Carollo, D.  
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**2026, The Astronomy & Astrophysics**, submitted
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*DELVE Milky Way Satellite Census I: Satellite Population and Survey Selection Function*  
**2026, The Astrophysical Journal**, submitted
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116. Heiger, M. E., Ji, A. P., Li, T. S., Simon, J. D., Limberg, G., Carballo-Bello, J., Cerny, W., Chaturvedi, A., Chiti, A., Choi, Y., Crnojevi , D., Mart nez-V zquez, C. E., Medina, G. E., Mutlu-Pakdil, B., Navabi, M., No l, N., Pace, A. B., **Placco, V. M.**, Riley, A. H., Sakowska, J., Stringfellow, G.  
*Not-so-heavy metal(s): Chemical Abundances in the Ultra-faint Dwarf Galaxies Eridanus IV and Centaurus I*  
**2026, The Astrophysical Journal**, submitted
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**2025, Astronomy & Astrophysics**, vol. 704, A282 ([ADS](#))
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**2025, The Astrophysical Journal**, vol. 993, 77 ([ADS](#))
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**2025, The Astrophysical Journal**, vol. 990, 125 ([ADS](#))
109. 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.**, et al.  
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