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List of Publications

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Research Publications

An inactive publication gap during 2011–2014 is due to an extended family leave.
Each article with citations can be also found at [my ADS library](#) and [my ORCID link](#).
* Students I have mentored.

First- and Second-Authored Peer Reviewed Journal Articles

1. 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*, accepted to *The Astrophysical Journal* Nov. 2019. arXiv: 1911.11140 [astro-ph.GA].
2. **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*, accepted to *The Astrophysical Journal* Oct. 2019. arXiv: 1910.10038 [astro-ph.SR].
3. **Yoon, J.**, Beers, T. C., Tian*, D. & Whitten*, D. D. *Origin of the CEMP-no Group Morphology in the Milky Way*, *The Astrophysical Journal*, 878, 97 June 2019. doi:10.3847/1538-4357/ab1ead. arXiv: 1904.02758 [astro-ph.SR].
4. **Yoon, J.**, Beers, T. C., 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*, *The Astrophysical Journal*, 861, 146, July 2018. doi:10.3847/1538-4357/aaccea. arXiv: 1806.04738 [astro-ph.SR].
5. **Yoon, J.**, Beers, T. C., Placco, V. M., Rasmussen*, K. C., Carollo, D., He, S., Hansen, T. T., Roederer, I. U. & Zeanah, J. *Observational Constraints on First-star Nucleosynthesis. I. Evidence for Multiple Progenitors of CEMP-No Stars*, *The Astrophysical Journal*, 833, 20, Dec. 2016. doi:10.3847/0004-637X/833/1/20. arXiv: 1607.06336 [astro-ph.SR].
6. **Yoon, J.**, Peterson, D. M., Kurucz, R. L. & Zagarelo, R. J. *A New View of Vega's Composition, Mass, and Age*, *The Astrophysical Journal*, 708, 71, Jan. 2010. doi:10.1088/0004-637X/708/1/71.
7. **Yoon, J.**, Peterson, D. M., Zagarelo, R. J., Armstrong, J. T. & Pauls, T. *The Effect of Rotation on the Spectrum of Vega*, *The Astrophysical Journal*, 681, 570, July 2008. doi:10.1086/588550. arXiv: 0803.3145 [astro-ph].
8. **Yoon, J.**, Peterson, D. M., Armstrong, J. T., Clark James H., I., Gilbreath, G. C., Pauls, T., Schmitt, H. R. & Zagarelo, R. J. *The Effect of Rotation on Calibrators for Ground-based Interferometry*, *Publications of the Astronomical Society of the Pacific*, 119, 437, Apr. 2007. doi:10.1086/518270.

Co-Authoring Peer Reviewed Journal Articles

9. Lee, Y. S., Beers, T. C., Kim, Y. K., Placco, V., **Yoon, J.**, Carollo, D., Masseron, T. & Jung, J. *Chemical Cartography. I. A Carbonicity Map of the Galactic Halo* Feb. 2017. doi:10.3847/1538-4357/836/1/91. arXiv: 1702.00195 [astro-ph.GA].
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* Dec. 2016. doi:10.3847/0004-637X/833/1/21. arXiv: 1609.02134 [astro-ph.SR].
11. Hansen, T. T., Andersen, J., Nordström, B., Beers, T. C., Placco, V. M., **Yoon, J.** & Buchhave, L. A. *The role of binaries in the enrichment of the early Galactic halo. III. Carbon-enhanced metal-poor stars - CEMP-s stars* Apr. 2016. doi:10.1051/0004-6361/201527409. arXiv: 1601.03385 [astro-ph.SR].
12. Hansen, T. T., Andersen, J., Nordström, B., Beers, T. C., Placco, V. M., **Yoon, J.** & Buchhave, L. A. *The role of binaries in the enrichment of the early Galactic halo. II. Carbon-enhanced metal-poor stars: CEMP-no stars* Feb. 2016. doi:10.1051/0004-6361/201527235. arXiv: 1511.08197 [astro-ph.SR].
13. Hansen, T. T., Andersen, J., Nordström, B., Beers, T. C., **Yoon, J.** & Buchhave, L. A. *The role of binaries in the enrichment of the early Galactic halo. I. r-process-enhanced metal-poor stars* Nov. 2015. doi:10.1051/0004-6361/201526812. arXiv: 1509.05344 [astro-ph.SR].

Pre-prints

14. Aprahamian, A., Surman, R., Frebel, A., McLaughlin, G. C., Arcones, A., Balantekin, A. B., Barnes, J., Beers, T. C., Holmbeck, E. M., **Yoon, J.**, Brodeur, M., Sprouse, T. M., Vassh, N., Cizewski, J. A., Clark, J. A., Cote, B., Couch, S. M., Eichler, M., Engel, J., Ezzeddine, R., Fuller, G. M., Giuliani, S. A., Grzywacz, R., Han, S., Horowitz, C. J., Kankainen, A., Korobkin, O., Kwiatkowski, A. A., Lawler, J. E., Lippuner, J., Litvinova, E., Mathews, G. J., Mumpower, M. R., Naimi, S., Nazarewicz, W., O'Connor, E., O'Shea, B. W., Perego, A., Perdikakis, G., Radice, D., Richers, S., Roberts, L. F., Robin, C., Roederer, I. U., Siegel, D. M., Schunck, N., Spyrou, A. & Zhu, Y.-L. *FRIB and the GW170817 Kilonova* Sept. 2018. arXiv: 1809.00703 [astro-ph.HE].

Conference Proceedings

15. Dietz*, S., Beers, T. C., Placco, V. M., **Yoon, J.** & AEGIS Collaboration. *Kinematic and Chemical Analysis of AEGIS Survey Stars in IAUS 334 Rediscovering Our Galaxy* (eds Chiappini, C., Minchev, I., Starkenburg, E. & Valentini, M.) **334** (Aug. 2018), 283–284. doi:10.1017/S1743921317006895.
16. Lee, Y. S., Beers, T. C., **Yoon, J.**, Kim, Y. K. & Jeong, J. *Assembly of the Galactic Halo System Based on Carbon-Enhanced Metal-Poor Stars in IAUS 334 Rediscovering Our Galaxy* (eds Chiappini, C., Minchev, I., Starkenburg, E. & Valentini, M.) **334** (Aug. 2018), 327–328. doi:10.1017/S1743921317007529.
17. Rasmussen*, K. C., 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 in IAUS 334 Rediscovering Our Galaxy* (eds Chiappini, C., Minchev, I., Starkenburg, E. & Valentini, M.) **334** (Aug. 2018), 353–354. doi:10.1017/S1743921317007001.
18. **Yoon, J.**, Whitten*, D. D., Beers, T. C., Placco, V. M., Lee, Y. S., Dietz*, S., Gudin*, D. & Rasmussen*, K. C. *Lifting the Veil on Ultra Metal-Poor Stars in the Outermost Halo in IAUS 334 Rediscovering Our Galaxy* (eds Chiappini, C., Minchev, I., Starkenburg, E. & Valentini, M.) **334** (Aug. 2018), 389–390. doi:10.1017/S174392131700792X.
19. **Yoon, J.**, Peterson, D. M., Armstrong, T., Clark James H., I., Gilbreath, C., Pauls, T. & Schmitt, H. R. *Early type stars as calibrators for ground-based interferometry in Society of Photo-Optical Instrumentation Engineers (SPIE) Conference Series 6268* (June 2006), 626848. doi:10.1117/12.670309.