

# Christopher Sneden

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

105  
papers

10,189  
citations

50  
h-index

100  
g-index

112  
ext. papers

11,023  
ext. citations

6.8  
avg, IF

6  
L-index

#	Paper	IF	Citations
105	Hydrogen and Helium Shock Phenomena during Rising Light in RR Lyrae Fundamental Mode Pulsators. <i>Astronomical Journal</i> , <b>2022</b> , 163, 109	4.9	0
104	The HobbyEberly Telescope Dark Energy Experiment (HETDEX) Survey Design, Reductions, and Detections*. <i>Astrophysical Journal</i> , <b>2021</b> , 923, 217	4.7	3
103	Multiple Stellar Populations of Globular Clusters from Homogeneous CaII NIR Photometry. VI. M3 (NGC 5272) Is Not a Prototypical Normal Globular Cluster* <i>Astrophysical Journal</i> , <b>2021</b> , 909, 167	4.7	3
102	Metallicities from high-resolution spectra of 49 RR Lyrae variables. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 503, 4719-4733	4.3	6
101	Linemake: An Atomic and Molecular Line List Generator. <i>Research Notes of the AAS</i> , <b>2021</b> , 5, 92	0.8	8
100	The Stars of the HETDEX Survey. I. Radial Velocities and Metal-poor Stars from Low-resolution Stellar Spectra. <i>Astrophysical Journal</i> , <b>2021</b> , 911, 108	4.7	4
99	The Pristine survey XII. Gemini-GRACES chemo-dynamical study of newly discovered extremely metal-poor stars in the Galaxy. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2021</b> , 506, 1438-1461	4.3	7
98	Origin of the heaviest elements: The rapid neutron-capture process. <i>Reviews of Modern Physics</i> , <b>2021</b> , 93,	40.5	98
97	Chemical Compositions of Red Giant Stars from Habitable Zone Planet Finder Spectroscopy. <i>Astronomical Journal</i> , <b>2021</b> , 161, 128	4.9	1
96	The HETDEX Instrumentation: HobbyEberly Telescope Wide-field Upgrade and VIRUS. <i>Astronomical Journal</i> , <b>2021</b> , 162, 298	4.9	8
95	Detailed Iron-peak Element Abundances in Three Very Metal-poor Stars. <i>Astrophysical Journal</i> , <b>2020</b> , 890, 119	4.7	10
94	Fluorine in the Solar Neighborhood: The Need for Several Cosmic Sources. <i>Astrophysical Journal</i> , <b>2020</b> , 893, 37	4.7	10
93	Vanadium Abundance Derivations in 255 Metal-poor Stars. <i>Astrophysical Journal</i> , <b>2020</b> , 900, 106	4.7	6
92	The Pristine survey IX. CFHT ESPaDOnS spectroscopic analysis of 115 bright metal-poor candidate stars. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2020</b> , 492, 3241-3262	4.3	22
91	The R-Process Alliance: Discovery of a Low-r-process-enhanced Metal-poor Star in the Galactic Halo. <i>Astrophysical Journal</i> , <b>2019</b> , 874, 148	4.7	11
90	The Axial Rotation and Variable Macroturbulence of RR Lyrae and Red Horizontal Branch Stars. <i>Astronomical Journal</i> , <b>2019</b> , 157, 153	4.9	7
89	Quantitative atomic spectroscopy, a review of progress in the optical-UV region and future opportunities. <i>Proceedings of the International Astronomical Union</i> , <b>2019</b> , 15, 301-305	0.1	

88	Vanadium Transitions in the Spectrum of Arcturus. <i>Astrophysical Journal, Supplement Series</i> , <b>2018</b> , 234, 25	8	9
87	Wolf 1130: A Nearby Triple System Containing a Cool, Ultramassive White Dwarf. <i>Astrophysical Journal</i> , <b>2018</b> , 854, 145	4.7	18
86	Impact of Distance Determinations on Galactic Structure. II. Old Tracers. <i>Space Science Reviews</i> , <b>2018</b> , 214, 1	7.5	8
85	Consistent Iron Abundances Derived from Neutral and Singly Ionized Iron Lines in Ultraviolet and Optical Spectra of Six Warm Metal-poor Stars. <i>Astrophysical Journal</i> , <b>2018</b> , 860, 125	4.7	15
84	Application of Laboratory Atomic Physics to Some Significant Stellar Chemical Composition Questions. <i>Atoms</i> , <b>2018</b> , 6, 48	2.1	3
83	The R-Process Alliance: First Release from the Northern Search for r-process-enhanced Metal-poor Stars in the Galactic Halo. <i>Astrophysical Journal</i> , <b>2018</b> , 868, 110	4.7	58
82	Transition Probabilities of Co II Weak Lines to the Ground and Low Metastable Levels. <i>Astrophysical Journal, Supplement Series</i> , <b>2018</b> , 238,	8	11
81	Chemical Compositions of Evolved Stars from Near-infrared IGRINS High-resolution Spectra. I. Abundances in Three Red Horizontal Branch Stars. <i>Astrophysical Journal</i> , <b>2018</b> , 865, 44	4.7	9
80	The R-Process Alliance: 2MASS J09544277+5246414, the Most Actinide-enhanced R-II Star Known. <i>Astrophysical Journal Letters</i> , <b>2018</b> , 859, L24	7.9	40
79	A Spectroscopic Survey of Field Red Horizontal-branch Stars. <i>Astronomical Journal</i> , <b>2018</b> , 155, 240	4.9	5
78	Metal-rich RRc Stars in the Carnegie RR Lyrae Survey. <i>Astronomical Journal</i> , <b>2018</b> , 155, 45	4.9	9
77	H <sub>2</sub> , CO, and Dust Absorption through Cold Molecular Clouds. <i>Astrophysical Journal</i> , <b>2017</b> , 838, 66	4.7	19
76	Spectroscopic Comparison of Metal-rich RRab Stars of the Galactic Field with their Metal-poor Counterparts. <i>Astrophysical Journal</i> , <b>2017</b> , 835, 187	4.7	39
75	The RRc Stars: Chemical Abundances and Envelope Kinematics. <i>Astrophysical Journal</i> , <b>2017</b> , 848, 68	4.7	20
74	IRON-GROUP ABUNDANCES IN THE METAL-POOR MAIN-SEQUENCE TURNOFF STAR HD 84937. <i>Astrophysical Journal</i> , <b>2016</b> , 817, 53	4.7	78
73	THE CHEMICAL COMPOSITIONS OF VERY METAL-POOR STARS HD 122563 AND HD 140283: A VIEW FROM THE INFRARED. <i>Astrophysical Journal</i> , <b>2016</b> , 819, 103	4.7	19
72	Line strengths of rovibrational and rotational transitions in the X <sup>2</sup> $\Sigma$ ground state of OH. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , <b>2016</b> , 168, 142-157	2.1	64
71	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. <i>Astrophysical Journal</i> , <b>2015</b> , 814, 121	4.7	22

70	HUBBLE SPACE TELESCOPE NEAR-ULTRAVIOLET SPECTROSCOPY OF BRIGHT CEMP-s STARS. <i>Astrophysical Journal</i> , <b>2015</b> , 812, 109	4-7	26
69	Atomic Data for Stellar Nucleosynthesis. <i>Proceedings of the International Astronomical Union</i> , <b>2015</b> , 11, 287-290	0-1	2
68	HUBBLE SPACE TELESCOPE NEAR-ULTRAVIOLET SPECTROSCOPY OF THE BRIGHT CEMP-NO STAR BD+44°1493. <i>Astrophysical Journal</i> , <b>2014</b> , 790, 34	4-7	32
67	NEW DETECTIONS OF ARSENIC, SELENIUM, AND OTHER HEAVY ELEMENTS IN TWO METAL-POOR STARS. <i>Astrophysical Journal</i> , <b>2014</b> , 791, 32	4-7	44
66	A SEARCH FOR STARS OF VERY LOW METAL ABUNDANCE. VI. DETAILED ABUNDANCES OF 313 METAL-POOR STARS. <i>Astronomical Journal</i> , <b>2014</b> , 147, 136	4-9	261
65	LINE LISTS FOR THE A 2 $\times$ 2 $\mu$ (RED) AND B 2 $\mu$ - X 2 $\mu$ (VIOLET) SYSTEMS OF CN, 13 C 1. <i>Astrophysical Journal, Supplement Series</i> , <b>2014</b> , 214, 26	8	125
64	Nine new metal-poor stars on the subgiant and red horizontal branches with high levels of r-process enhancement. <i>Monthly Notices of the Royal Astronomical Society</i> , <b>2014</b> , 445, 2970-2984	4-3	45
63	THE CHEMICAL COMPOSITIONS OF RR LYRAE TYPE C VARIABLE STARS. <i>Astrophysical Journal</i> , <b>2014</b> , 782, 59	4-7	27
62	IMPROVED LINE DATA FOR THE SWAN SYSTEM 12 C 13 C ISOTOPOLOGUE. <i>Astrophysical Journal, Supplement Series</i> , <b>2014</b> , 211, 5	8	38
61	THE ABSOLUTE MAGNITUDE OF RRc VARIABLES FROM STATISTICAL PARALLAX. <i>Astrophysical Journal</i> , <b>2013</b> , 775, 57	4-7	19
60	DETECTION OF THE SECOND r-PROCESS PEAK ELEMENT TELLURIUM IN METAL-POOR STARS. <i>Astrophysical Journal Letters</i> , <b>2012</b> , 747, L8	7-9	35
59	NEW HUBBLE SPACE TELESCOPE OBSERVATIONS OF HEAVY ELEMENTS IN FOUR METAL-POOR STARS. <i>Astrophysical Journal, Supplement Series</i> , <b>2012</b> , 203, 27	8	99
58	SILICON AND OXYGEN ABUNDANCES IN PLANET-HOST STARS. <i>Astrophysical Journal</i> , <b>2011</b> , 738, 97	4-7	67
57	THE CHEMICAL ABUNDANCES OF STARS IN THE HALO (CASH) PROJECT. II. A SAMPLE OF 14 EXTREMELY METAL-POOR STARS. <i>Astrophysical Journal</i> , <b>2011</b> , 742, 54	4-7	65
56	THE CHEMICAL COMPOSITIONS OF VARIABLE FIELD HORIZONTAL-BRANCH STARS: RR LYRAE STARS. <i>Astrophysical Journal, Supplement Series</i> , <b>2011</b> , 197, 29	8	54
55	RADIAL VELOCITIES AND PULSATION EPHEMERIDES OF 11 FIELD RR Lyrae STARS. <i>Astrophysical Journal, Supplement Series</i> , <b>2011</b> , 194, 38	8	22
54	THE ABUNDANCES OF NEUTRON-CAPTURE SPECIES IN THE VERY METAL-POOR GLOBULAR CLUSTER M15: A UNIFORM ANALYSIS OF RED GIANT BRANCH AND RED HORIZONTAL BRANCH STARS. <i>Astronomical Journal</i> , <b>2011</b> , 141, 175	4-9	215
53	THE CHEMICAL COMPOSITIONS OF NON-VARIABLE RED AND BLUE FIELD HORIZONTAL BRANCH STARS. <i>Astronomical Journal</i> , <b>2010</b> , 140, 1694-1718	4-9	40

52	NEW ABUNDANCE DETERMINATIONS OF CADMIUM, LUTETIUM, AND OSMIUM IN THE $r$ -PROCESS ENRICHED STAR BD +17 3248 ., <i>Astrophysical Journal Letters</i> , <b>2010</b> , 714, L123-L127	7.9	42
51	CHARACTERIZING THE CHEMISTRY OF THE MILKY WAY STELLAR HALO: DETAILED CHEMICAL ANALYSIS OF A METAL-POOR STELLAR STREAM,. <i>Astrophysical Journal</i> , <b>2010</b> , 711, 573-596	4.7	91
50	THE UBIQUITY OF THE RAPID NEUTRON-CAPTURE PROCESS. <i>Astrophysical Journal</i> , <b>2010</b> , 724, 975-993	4.7	127
49	NEW RARE EARTH ELEMENT ABUNDANCE DISTRIBUTIONS FOR THE SUN AND FIVE $r$ -PROCESS-RICH VERY METAL-POOR STARS. <i>Astrophysical Journal, Supplement Series</i> , <b>2009</b> , 182, 80-96	8	143
48	THE END OF NUCLEOSYNTHESIS: PRODUCTION OF LEAD AND THORIUM IN THE EARLY GALAXY. <i>Astrophysical Journal</i> , <b>2009</b> , 698, 1963-1980	4.7	76
47	Constraints on the Nature of the $s$ - and $r$ -processes. <i>Proceedings of the International Astronomical Union</i> , <b>2009</b> , 5, 46-53	0.1	1
46	Detailed Chemical Abundances in a Metal-Poor Stellar Stream. <i>Proceedings of the International Astronomical Union</i> , <b>2009</b> , 5, 368-369	0.1	1
45	Neutron-Capture Elements in the Early Galaxy. <i>Annual Review of Astronomy and Astrophysics</i> , <b>2008</b> , 46, 241-288	31.7	597
44	The Hobby-Eberly Telescope Chemical Abundances of Stars in the Halo (CASH) Project. I. The Lithium-, $s$ -, and $r$ -enhanced Metal-poor Giant HKII 1743500532. <i>Astrophysical Journal</i> , <b>2008</b> , 679, 1549-1563	4.7	43
43	THE SEGUE STELLAR PARAMETER PIPELINE. III. COMPARISON WITH HIGH-RESOLUTION SPECTROSCOPY OF SDSS/SEGUE FIELD STARS. <i>Astronomical Journal</i> , <b>2008</b> , 136, 2070-2082	4.9	195
42	Europium, Samarium, and Neodymium Isotopic Fractions in Metal-Poor Stars. <i>Astrophysical Journal</i> , <b>2008</b> , 675, 723-745	4.7	45
41	Explorations of the $r$ -Processes: Comparisons between Calculations and Observations of Low-Metallicity Stars. <i>Astrophysical Journal</i> , <b>2007</b> , 662, 39-52	4.7	118
40	Improved Laboratory Transition Probabilities for Neutral Chromium and Redetermination of the Chromium Abundance for the Sun and Three Stars. <i>Astrophysical Journal</i> , <b>2007</b> , 667, 1267-1282	4.7	122
39	Atmospheres, Chemical Compositions, and Evolutionary Histories of Very Metal-Poor Red Horizontal-Branch Stars in the Galactic Field and in NGC 7078 (M15). <i>Astronomical Journal</i> , <b>2006</b> , 132, 85-110	4.9	77
38	Near-Ultraviolet Observations of HD 221170: New Insights into the Nature of $r$ -Process-Rich Stars. <i>Astrophysical Journal</i> , <b>2006</b> , 645, 613-633	4.7	152
37	Heavy element synthesis in the oldest stars and the early Universe. <i>Nature</i> , <b>2006</b> , 440, 1151-6	50.4	88
36	Near-Ultraviolet Observations of CS 29497-030: New Constraints on Neutron-Capture Nucleosynthesis Processes. <i>Astrophysical Journal</i> , <b>2005</b> , 627, L145-L148	4.7	80
35	Globular cluster and halo field abundances: similarities and a few differences. <i>Proceedings of the International Astronomical Union</i> , <b>2005</b> , 1, 337-344	0.1	2

34	CS29497-030 Abundance Constraints on Neutron-Capture Nucleosynthesis. <i>Proceedings of the International Astronomical Union</i> , <b>2005</b> , 1, 467-472	0.1	
33	Estimation of carbon abundances in metal-deficient stars. Application to the Strong G-Band stars of Beers, Preston, & Schectman. <i>Proceedings of the International Astronomical Union</i> , <b>2005</b> , 1, 273-274 <sup>1</sup>	0.1	
32	Manganese abundances in cluster and field stars. <i>Proceedings of the International Astronomical Union</i> , <b>2005</b> , 1, 379-384	0.1	
31	Hubble Space Telescope Observations of Heavy Elements in Metal-Poor Galactic Halo Stars. <i>Astrophysical Journal</i> , <b>2005</b> , 627, 238-250	4.7	89
30	Radial velocities, metallicities, and distances of Cepheids in M31 and M33. <i>International Astronomical Union Colloquium</i> , <b>2004</b> , 193, 99-102		
29	Abundance Variations within Globular Clusters. <i>Annual Review of Astronomy and Astrophysics</i> , <b>2004</b> , 42, 385-440	31.7	659
28	Galactic Evolution of Sr, Y, and Zr: A Multiplicity of Nucleosynthetic Processes. <i>Astrophysical Journal</i> , <b>2004</b> , 601, 864-884	4.7	441
27	The Chemical Composition Contrast between M3 and M13 Revisited: New Abundances for 28 Giant Stars in M3. <i>Astronomical Journal</i> , <b>2004</b> , 127, 2162-2184	4.9	161
26	The Rise of the s-Process in the Galaxy. <i>Astrophysical Journal</i> , <b>2004</b> , 617, 1091-1114	4.7	262
25	Blue metal-poor stars. <i>Proceedings of the International Astronomical Union</i> , <b>2004</b> , 2004, 403-410	0.1	
24	Chemical Substructure in the Milky Way Halo: A New Population of Old Stars. <i>Astrophysical Journal</i> , <b>2003</b> , 592, 906-934	4.7	113
23	The Extremely Metal-poor, Neutron Capture-rich Star CS 22892-052: A Comprehensive Abundance Analysis. <i>Astrophysical Journal</i> , <b>2003</b> , 591, 936-953	4.7	386
22	Genesis of the heaviest elements in the Milky Way Galaxy. <i>Science</i> , <b>2003</b> , 299, 70-5	33.3	57
21	Oxygen Abundances: New Results from [O I] Lines. <i>Highlights of Astronomy</i> , <b>2002</b> , 12, 407-409		1
20	The Chemical Composition and Age of the Metal-poor Halo Star BD +17°3248. <i>Astrophysical Journal</i> , <b>2002</b> , 572, 861-879	4.7	228
19	Probing the Neutron-Capture Nucleosynthesis History of Galactic Matter. <i>Publications of the Astronomical Society of the Pacific</i> , <b>2002</b> , 114, 1293-1308	5	139
18	Abundances in Halo Population Stars <b>2002</b> , 81-90		1
17	The Incidence of Binaries among Very Metal-poor Carbon Stars. <i>Astronomical Journal</i> , <b>2001</b> , 122, 1545-1560	4.7	128

16	Evidence of Multiple r-Process Sites in the Early Galaxy: New Observations of CS 22892-052. <i>Astrophysical Journal</i> , <b>2000</b> , 533, L139-L142	4-7	197
15	Neutron-Capture Elements in the Early Galaxy: Insights from a Large Sample of Metal-poor Giants. <i>Astrophysical Journal</i> , <b>2000</b> , 544, 302-319	4-7	423
14	Ther-Process-Enriched Low-Metallicity Giant HD 115444. <i>Astrophysical Journal</i> , <b>2000</b> , 530, 783-799	4-7	218
13	What Are These Blue Metal-Poor Stars?. <i>Astronomical Journal</i> , <b>2000</b> , 120, 1014-1055	4-9	170
12	Neutron-Capture Element Abundances in the Globular Cluster M15. <i>Astrophysical Journal</i> , <b>2000</b> , 536, L85-L88	4-7	74
11	r-Process Abundances and Chronometers in Metal-poor Stars. <i>Astrophysical Journal</i> , <b>1999</b> , 521, 194-205	4-7	185
10	The Thorium Chronometer in CS 22892-052: Estimates of the Age of the Galaxy. <i>Astrophysical Journal</i> , <b>1997</b> , 480, 246-254	4-7	88
9	Discovery of an "alpha" Element-Poor Halo Star in a Search for Very Low- Metallicity Disk Stars. <i>Astronomical Journal</i> , <b>1997</b> , 114, 363	4-9	108
8	The Ultra--Metal-poor, Neutron-Capture--rich Giant Star CS 22892-052. <i>Astrophysical Journal</i> , <b>1996</b> , 467, 819	4-7	391
7	The high-resolution cross-dispersed echelle white-pupil spectrometer of the McDonald Observatory 2.7-m telescope. <i>Publications of the Astronomical Society of the Pacific</i> , <b>1995</b> , 107, 251	5	354
6	Spectroscopic Analysis of 33 of the Most Metal Poor Stars. II.. <i>Astronomical Journal</i> , <b>1995</b> , 109, 2757	4-9	627
5	Ultrametal-poor halo stars: The remarkable spectrum of CS 22892-052. <i>Astrophysical Journal</i> , <b>1994</b> , 431, L27	4-7	98
4	Oxygen abundances in halo giants. III - Giants in the mildly metal-poor globular cluster M5. <i>Astronomical Journal</i> , <b>1992</b> , 104, 2121	4-9	95
3	Abundance Ratios as a Function of Metallicity. <i>Annual Review of Astronomy and Astrophysics</i> , <b>1989</b> , 27, 279-349	31-7	423
2	Abundances of neutron capture elements in Population II stars. <i>Astrophysical Journal</i> , <b>1988</b> , 327, 298	4-7	141
1	Carbon isotope ratios in field Population II giant stars. <i>Astrophysical Journal</i> , <b>1986</b> , 311, 826	4-7	60