Christopher Sneden

List of Publications by Citations

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	Abundance Variations within Globular Clusters. *Annual Review of Astronomy and Astrophysics*, **2004**, 42, 385-440	31.7	659
104	Spectroscopic Analysis of 33 of the Most Metal Poor Stars. II.. *Astronomical Journal*, **1995**, 109, 2757	4.9	627
103	Neutron-Capture Elements in the Early Galaxy. *Annual Review of Astronomy and Astrophysics*, **2008**, 46, 241-288	31.7	597
102	Galactic Evolution of Sr, Y, and Zr: A Multiplicity of Nucleosynthetic Processes. *Astrophysical Journal* , **2004**, 601, 864-884	4.7	441
101	Neutron-Capture Elements in the Early Galaxy: Insights from a Large Sample of Metal-poor Giants. *Astrophysical Journal*, **2000**, 544, 302-319	4.7	423
100	Abundance Ratios as a Function of Metallicity. *Annual Review of Astronomy and Astrophysics*, **1989**, 27, 279-349	31.7	423
99	The Ultra--Metal-poor, Neutron-Capture--rich Giant Star CS 22892-052. *Astrophysical Journal*, **1996**, 467, 819	4.7	391
98	The Extremely Metal-poor, Neutron Capture-Rich Star CS 22892-052: A Comprehensive Abundance Analysis. *Astrophysical Journal*, **2003**, 591, 936-953	4.7	386
97	The high-resolution cross-dispersed echelle white-pupil spectrometer of the McDonald Observatory 2.7-m telescope. *Publications of the Astronomical Society of the Pacific*, **1995**, 107, 251	5	354
96	The Rise of thes-Process in the Galaxy. *Astrophysical Journal*, **2004**, 617, 1091-1114	4.7	262
95	A SEARCH FOR STARS OF VERY LOW METAL ABUNDANCE. VI. DETAILED ABUNDANCES OF 313 METAL-POOR STARS. *Astronomical Journal*, **2014**, 147, 136	4.9	261
94	The Chemical Composition and Age of the Metal-poor Halo Star BD +17o3248. *Astrophysical Journal* , **2002**, 572, 861-879	4.7	228
93	Ther-Process-enriched Low-Metallicity Giant HD 115444. *Astrophysical Journal*, **2000**, 530, 783-799	4.7	218
92	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. *Astronomical Journal*, **2011**, 141, 175	4.9	215
91	Evidence of Multiple r-Process Sites in the Early Galaxy: New Observations of CS 22892-052. *Astrophysical Journal*, **2000**, 533, L139-L142	4.7	197
90	THE SEGUE STELLAR PARAMETER PIPELINE. III. COMPARISON WITH HIGH-RESOLUTION SPECTROSCOPY OF SDSS/SEGUE FIELD STARS. *Astronomical Journal*, **2008**, 136, 2070-2082	4.9	195
89	r-Process Abundances and Chronometers in Metal-poor Stars. *Astrophysical Journal*, **1999**, 521, 194-205	4.7	185

88	What Are These Blue Metal-Poor Stars?. *Astronomical Journal*, **2000**, 120, 1014-1055	4.9	170
87	The Chemical Composition Contrast between M3 and M13 Revisited: New Abundances for 28 Giant Stars in M3. *Astronomical Journal*, **2004**, 127, 2162-2184	4.9	161
86	Near-Ultraviolet Observations of HD 221170: New Insights into the Nature ofr-Process Rich Stars. *Astrophysical Journal*, **2006**, 645, 613-633	4.7	152
85	NEW RARE EARTH ELEMENT ABUNDANCE DISTRIBUTIONS FOR THE SUN AND FIVE r -PROCESS-RICH VERY METAL-POOR STARS. *Astrophysical Journal, Supplement Series*, **2009**, 182, 80-96	8	143
84	Abundances of neutron capture elements in Population II stars. *Astrophysical Journal*, **1988**, 327, 298	4.7	141
83	Probing the Neutron-Capture Nucleosynthesis History of Galactic Matter. *Publications of the Astronomical Society of the Pacific*, **2002**, 114, 1293-1308	5	139
82	The Incidence of Binaries among Very Metal-poor Carbon Stars. *Astronomical Journal*, **2001**, 122, 1545-1560	4.9	128
81	THE UBIQUITY OF THE RAPID NEUTRON-CAPTURE PROCESS. *Astrophysical Journal*, **2010**, 724, 975-993	4.7	127
80	LINE LISTS FOR THE A 2 X 2 (RED) AND B 2 - X 2 (VIOLET) SYSTEMS OF CN, 13 C 1. *Astrophysical Journal, Supplement Series*, **2014**, 214, 26	8	125
79	Improved Laboratory Transition Probabilities for Neutral Chromium and Redetermination of the Chromium Abundance for the Sun and Three Stars. *Astrophysical Journal*, **2007**, 667, 1267-1282	4.7	122
78	Explorations of ther-Processes: Comparisons between Calculations and Observations of Low-Metallicity Stars. *Astrophysical Journal*, **2007**, 662, 39-52	4.7	118
77	Chemical Substructure in the Milky Way Halo: A New Population of Old Stars. *Astrophysical Journal*, **2003**, 592, 906-934	4.7	113
76	Discovery of an "alpha" Element-Poor Halo Star in a Search for Very Low- Metallicity Disk Stars. *Astronomical Journal*, **1997**, 114, 363	4.9	108
75	NEW HUBBLE SPACE TELESCOPE OBSERVATIONS OF HEAVY ELEMENTS IN FOUR METAL-POOR STARS. *Astrophysical Journal, Supplement Series*, **2012**, 203, 27	8	99
74	Ultrametal-poor halo stars: The remarkable spectrum of CS 22892-052. *Astrophysical Journal*, **1994**, 431, L27	4.7	98
73	Origin of the heaviest elements: The rapid neutron-capture process. *Reviews of Modern Physics*, **2021**, 93,	40.5	98
72	Oxygen abundances in halo giants. III - Giants in the mildly metal-poor globular cluster M5. *Astronomical Journal*, **1992**, 104, 2121	4.9	95
71	CHARACTERIZING THE CHEMISTRY OF THE MILKY WAY STELLAR HALO: DETAILED CHEMICAL ANALYSIS OF A METAL-POOR STELLAR STREAM,. *Astrophysical Journal*, **2010**, 711, 573-596	4.7	91

70	Hubble Space TelescopeObservations of Heavy Elements in Metal-Poor Galactic Halo Stars. *Astrophysical Journal*, **2005**, 627, 238-250	4.7	89
69	The Thorium Chronometer in CS 22892052: Estimates of the Age of the Galaxy. *Astrophysical Journal*, **1997**, 480, 246-254	4.7	88
68	Heavy element synthesis in the oldest stars and the early Universe. *Nature*, **2006**, 440, 1151-6	50.4	88
67	Near-Ultraviolet Observations of CS 29497-030: New Constraints on Neutron-Capture Nucleosynthesis Processes. *Astrophysical Journal*, **2005**, 627, L145-L148	4.7	80
66	IRON-GROUP ABUNDANCES IN THE METAL-POOR MAIN-SEQUENCE TURNOFF STAR HD 84937. *Astrophysical Journal*, **2016**, 817, 53	4.7	78
65	Atmospheres, Chemical Compositions, and Evolutionary Histories of Very Metal-Poor Red Horizontal-Branch Stars in the Galactic Field and in NGC 7078 (M15). *Astronomical Journal*, **2006**, 132, 85-110	4.9	77
64	THE END OF NUCLEOSYNTHESIS: PRODUCTION OF LEAD AND THORIUM IN THE EARLY GALAXY. *Astrophysical Journal*, **2009**, 698, 1963-1980	4.7	76
63	Neutron-Capture Element Abundances in the Globular Cluster M15. *Astrophysical Journal*, **2000**, 536, L85-L88	4.7	74
62	SILICON AND OXYGEN ABUNDANCES IN PLANET-HOST STARS. *Astrophysical Journal*, **2011**, 738, 97	4.7	67
61	THE CHEMICAL ABUNDANCES OF STARS IN THE HALO (CASH) PROJECT. II. A SAMPLE OF 14 EXTREMELY METAL-POOR STARS,. *Astrophysical Journal*, **2011**, 742, 54	4.7	65
60	Line strengths of rovibrational and rotational transitions in the X2ground state of OH. *Journal of Quantitative Spectroscopy and Radiative Transfer*, **2016**, 168, 142-157	2.1	64
59	Carbon isotope ratios in field Population II giant stars. *Astrophysical Journal*, **1986**, 311, 826	4.7	60
58	The R-Process Alliance: First Release from the Northern Search for r-process-enhanced Metal-poor Stars in the Galactic Halo. *Astrophysical Journal*, **2018**, 868, 110	4.7	58
57	Genesis of the heaviest elements in the Milky Way Galaxy. *Science*, **2003**, 299, 70-5	33.3	57
56	THE CHEMICAL COMPOSITIONS OF VARIABLE FIELD HORIZONTAL-BRANCH STARS: RR LYRAE STARS. *Astrophysical Journal, Supplement Series*, **2011**, 197, 29	8	54
55	Nine new metal-poor stars on the subgiant and red horizontal branches with high levels of r-process enhancement. *Monthly Notices of the Royal Astronomical Society*, **2014**, 445, 2970-2984	4.3	45
54	Europium, Samarium, and Neodymium Isotopic Fractions in Metal-Poor Stars. *Astrophysical Journal*, **2008**, 675, 723-745	4.7	45
53	NEW DETECTIONS OF ARSENIC, SELENIUM, AND OTHER HEAVY ELEMENTS IN TWO METAL-POOR STARS. *Astrophysical Journal*, **2014**, 791, 32	4.7	44

52	The Hobby-Eberly Telescope Chemical Abundances of Stars in the Halo (CASH) Project. I. The Lithium-,s-, andr-enhanced Metal-poor Giant HKII 17435−00532. *Astrophysical Journal*, **2008**, 679, 1549-1565	4.7	43
51	NEW ABUNDANCE DETERMINATIONS OF CADMIUM, LUTETIUM, AND OSMIUM IN THE r -PROCESS ENRICHED STAR BD +17 3248 ,. *Astrophysical Journal Letters*, **2010**, 714, L123-L127	7.9	42
50	THE CHEMICAL COMPOSITIONS OF NON-VARIABLE RED AND BLUE FIELD HORIZONTAL BRANCH STARS. *Astronomical Journal*, **2010**, 140, 1694-1718	4.9	40
49	The R -Process Alliance: 2MASS J09544277+5246414, the Most Actinide-enhanced R -II Star Known. *Astrophysical Journal Letters*, **2018**, 859, L24	7.9	40
48	Spectroscopic Comparison of Metal-rich RRab Stars of the Galactic Field with their Metal-poor Counterparts. *Astrophysical Journal*, **2017**, 835, 187	4.7	39
47	IMPROVED LINE DATA FOR THE SWAN SYSTEM 12 C 13 C ISOTOPOLOGUE. *Astrophysical Journal, Supplement Series*, **2014**, 211, 5	8	38
46	DETECTION OF THE SECOND r -PROCESS PEAK ELEMENT TELLURIUM IN METAL-POOR STARS,. *Astrophysical Journal Letters*, **2012**, 747, L8	7.9	35
45	HUBBLE SPACE TELESCOPENEAR-ULTRAVIOLET SPECTROSCOPY OF THE BRIGHT CEMP-NO STAR BD+44°493. *Astrophysical Journal*, **2014**, 790, 34	4.7	32
44	THE CHEMICAL COMPOSITIONS OF RR LYRAE TYPE C VARIABLE STARS. *Astrophysical Journal*, **2014** , 782, 59	4.7	27
43	HUBBLE SPACE TELESCOPENEAR-ULTRAVIOLET SPECTROSCOPY OF BRIGHT CEMP-sSTARS. *Astrophysical Journal*, **2015**, 812, 109	4.7	26
42	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. *Astrophysical Journal*, **2015**, 814, 121	4.7	22
41	RADIAL VELOCITIES AND PULSATION EPHEMERIDES OF 11 FIELD RR Lyrae STARS. *Astrophysical Journal, Supplement Series*, **2011**, 194, 38	8	22
40	The Pristine survey IX. CFHT ESPaDOnS spectroscopic analysis of 115 bright metal-poor candidate stars. *Monthly Notices of the Royal Astronomical Society*, **2020**, 492, 3241-3262	4.3	22
39	The RRc Stars: Chemical Abundances and Envelope Kinematics. *Astrophysical Journal*, **2017**, 848, 68	4.7	20
38	H2, CO, and Dust Absorption through Cold Molecular Clouds. *Astrophysical Journal*, **2017**, 838, 66	4.7	19
37	THE CHEMICAL COMPOSITIONS OF VERY METAL-POOR STARS HD 122563 AND HD 140283: A VIEW FROM THE INFRARED. *Astrophysical Journal*, **2016**, 819, 103	4.7	19
36	THE ABSOLUTE MAGNITUDE OF RRc VARIABLES FROM STATISTICAL PARALLAX. *Astrophysical Journal*, **2013**, 775, 57	4.7	19
35	Wolf 1130: A Nearby Triple System Containing a Cool, Ultramassive White Dwarf. *Astrophysical Journal*, **2018**, 854, 145	4.7	18

34	Consistent Iron Abundances Derived from Neutral and Singly Ionized Iron Lines in Ultraviolet and Optical Spectra of Six Warm Metal-poor Stars. *Astrophysical Journal*, **2018**, 860, 125	4.7	15
33	The R-Process Alliance: Discovery of a Low-r-process-enhanced Metal-poor Star in the Galactic Halo. *Astrophysical Journal*, **2019**, 874, 148	4.7	11
32	Transition Probabilities of Co ii Weak Lines to the Ground and Low Metastable Levels. *Astrophysical Journal, Supplement Series*, **2018**, 238,	8	11
31	Detailed Iron-peak Element Abundances in Three Very Metal-poor Stars. *Astrophysical Journal*, **2020**, 890, 119	4.7	10
30	Fluorine in the Solar Neighborhood: The Need for Several Cosmic Sources. *Astrophysical Journal*, **2020**, 893, 37	4.7	10
29	Vanadium Transitions in the Spectrum of Arcturus. *Astrophysical Journal, Supplement Series*, **2018**, 234, 25	8	9
28	Chemical Compositions of Evolved Stars from Near-infrared IGRINS High-resolution Spectra. I. Abundances in Three Red Horizontal Branch Stars. *Astrophysical Journal*, **2018**, 865, 44	4.7	9
27	Metal-rich RRc Stars in the Carnegie RR Lyrae Survey. *Astronomical Journal*, **2018**, 155, 45	4.9	9
26	Impact of Distance Determinations on Galactic Structure. II. Old Tracers. *Space Science Reviews*, **2018**, 214, 1	7.5	8
25	Linemake: An Atomic and Molecular Line List Generator. *Research Notes of the AAS*, **2021**, 5, 92	0.8	8
24	The HETDEX Instrumentation: Hobby-Eberly Telescope Wide-field Upgrade and VIRUS. *Astronomical Journal*, **2021**, 162, 298	4.9	8
23	The Axial Rotation and Variable Macroturbulence of RR Lyrae and Red Horizontal Branch Stars. *Astronomical Journal*, **2019**, 157, 153	4.9	7
22	The Pristine survey - XII. Gemini-GRACES chemo-dynamical study of newly discovered extremely metal-poor stars in the Galaxy. *Monthly Notices of the Royal Astronomical Society*, **2021**, 506, 1438-1461	4.3	7
21	Vanadium Abundance Derivations in 255 Metal-poor Stars. *Astrophysical Journal*, **2020**, 900, 106	4.7	6
20	Metallicities from high-resolution spectra of 49 RR Lyrae variables. *Monthly Notices of the Royal Astronomical Society*, **2021**, 503, 4719-4733	4.3	6
19	A Spectroscopic Survey of Field Red Horizontal-branch Stars. *Astronomical Journal*, **2018**, 155, 240	4.9	5
18	The Stars of the HETDEX Survey. I. Radial Velocities and Metal-poor Stars from Low-resolution Stellar Spectra. *Astrophysical Journal*, **2021**, 911, 108	4.7	4
17	The Hobby-Eberly Telescope Dark Energy Experiment (HETDEX) Survey Design, Reductions, and Detections*. *Astrophysical Journal*, **2021**, 923, 217	4.7	3

16	Multiple Stellar Populations of Globular Clusters from Homogeneous CaCNCHCNH Photometry. VI. M3 (NGC 5272) Is Not a Prototypical Normal Globular Cluster* *Astrophysical Journal*, **2021**, 909, 167	4.7	3
15	Application of Laboratory Atomic Physics to Some Significant Stellar Chemical Composition Questions. *Atoms*, **2018**, 6, 48	2.1	3
14	Atomic Data for Stellar Nucleosynthesis. *Proceedings of the International Astronomical Union*, **2015**, 11, 287-290	0.1	2
13	Globular cluster and halo field abundances: similarities and a few differences. *Proceedings of the International Astronomical Union*, **2005**, 1, 337-344	0.1	2
12	Constraints on the Nature of the s- and r-processes. *Proceedings of the International Astronomical Union*, **2009**, 5, 46-53	0.1	1
11	Detailed Chemical Abundances in a Metal-Poor Stellar Stream. *Proceedings of the International Astronomical Union*, **2009**, 5, 368-369	0.1	1
10	Oxygen Abundances: New Results from [O I] Lines. *Highlights of Astronomy*, **2002**, 12, 407-409		1
9	Abundances in Halo Population Stars **2002**, 81-90		1
8	Chemical Compositions of Red Giant Stars from Habitable Zone Planet Finder Spectroscopy. *Astronomical Journal*, **2021**, 161, 128	4.9	1
7	Hydrogen and Helium Shock Phenomena during Rising Light in RR Lyrae Fundamental Mode Pulsators. *Astronomical Journal*, **2022**, 163, 109	4.9	0
6	Radial velocities, metallicities, and distances of Cepheids in M31 and M33. *International Astronomical Union Colloquium*, **2004**, 193, 99-102		
5	Blue metal-poor stars. *Proceedings of the International Astronomical Union*, **2004**, 2004, 403-410	0.1	
4	CS29497-030 Abundance Constraints on Neutron-Capture Nucleosynthesis. *Proceedings of the International Astronomical Union*, **2005**, 1, 467-472	0.1	
3	Estimation of carbon abundances in metal-deficient stars. Application to the Strong G-Band stars of Beers, Preston, & Schectman. *Proceedings of the International Astronomical Union*, **2005**, 1, 273-274	0.1	
2	Manganese abundances in cluster and field stars. *Proceedings of the International Astronomical Union*, **2005**, 1, 379-384	0.1	
1	Quantitative atomic spectroscopy, a review of progress in the optical-UV region and future opportunities. *Proceedings of the International Astronomical Union*, **2019**, 15, 301-305	0.1	