

# Ian U Roederer

## List of Publications by Year in descending order

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79  
papers

3,709  
citations

94269

37  
h-index

133063

59  
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81  
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81  
docs citations

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times ranked

1961  
citing authors

#	ARTICLE	IF	CITATIONS
1	A SEARCH FOR STARS OF VERY LOW METAL ABUNDANCE. VI. DETAILED ABUNDANCES OF 313 METAL-POOR STARS. <i>Astronomical Journal</i> , 2014, 147, 136.	1.9	338
2	THE UBIQUITY OF THE RAPID NEUTRON-CAPTURE PROCESS*. <i>Astrophysical Journal</i> , 2010, 724, 975-993.	1.6	144
3	DETAILED CHEMICAL ABUNDANCES IN THE r-PROCESS-RICH ULTRA-FAINT DWARF GALAXY RETICULUM 2*. <i>Astronomical Journal</i> , 2016, 151, 82.	1.9	144
4	OBSERVATIONAL CONSTRAINTS ON FIRST-STAR NUCLEOSYNTHESIS. I. EVIDENCE FOR MULTIPLE PROGENITORS OF CEMP-NO STARS. <i>Astrophysical Journal</i> , 2016, 833, 20.	1.6	143
5	Iron and neutron-capture element abundance variations in the globular cluster M2 (NGC 7089)â~.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 3396-3416.	1.6	119
6	NEW <i>HUBBLE SPACE TELESCOPE</i> OBSERVATIONS OF HEAVY ELEMENTS IN FOUR METAL-POOR STARS. <i>Astrophysical Journal</i> , Supplement Series, 2012, 203, 27.	3.0	116
7	The R-process Alliance: First Release from the Southern Search for R-process-enhanced Stars in the Galactic Halo*. <i>Astrophysical Journal</i> , 2018, 858, 92.	1.6	111
8	CHARACTERIZING THE CHEMISTRY OF THE MILKY WAY STELLAR HALO: DETAILED CHEMICAL ANALYSIS OF A METAL-POOR STELLAR STREAM,. <i>Astrophysical Journal</i> , 2010, 711, 573-596.	1.6	108
9	THE END OF NUCLEOSYNTHESIS: PRODUCTION OF LEAD AND THORIUM IN THE EARLY GALAXY. <i>Astrophysical Journal</i> , 2009, 698, 1963-1980.	1.6	90
10	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> , 2018, 868, 110.	1.6	88
11	THE CHEMICAL ABUNDANCES OF STARS IN THE HALO (CASH) PROJECT. II. A SAMPLE OF 14 EXTREMELY METAL-POOR STARS,. <i>Astrophysical Journal</i> , 2011, 742, 54.	1.6	78
12	DETECTION OF ELEMENTS AT ALL THREE<i>r</i>-PROCESS PEAKS IN THE METAL-POOR STAR HD 160617<sup></sup>. <i>Astrophysical Journal</i> , 2012, 750, 76.	1.6	78
13	ARE THERE ANY STARS LACKING NEUTRON-CAPTURE ELEMENTS? EVIDENCE FROM STRONTIUM AND BARIUM. <i>Astronomical Journal</i> , 2013, 145, 26.	1.9	73
14	High precision differential abundance measurements in globular clusters: chemical inhomogeneities in NGCâ6752â~.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 434, 3542-3565.	1.6	70
15	NEUTRON-CAPTURE NUCLEOSYNTHESIS IN THE FIRST STARS. <i>Astrophysical Journal</i> , 2014, 784, 158.	1.6	67
16	THE DIVERSE ORIGINS OF NEUTRON-CAPTURE ELEMENTS IN THE METAL-POOR STAR HD 94028: POSSIBLE DETECTION OF PRODUCTS OF i-PROCESS NUCLEOSYNTHESIS*. <i>Astrophysical Journal</i> , 2016, 821, 37.	1.6	65
17	Kinematics of Highly r-process-enhanced Field Stars: Evidence for an Accretion Origin and Detection of Several Groups from Disrupted Satellites. <i>Astronomical Journal</i> , 2018, 156, 179.	1.9	65
18	PRIMORDIAL <i>r</i>-PROCESS DISPERSION IN METAL-POOR GLOBULAR CLUSTERS. <i>Astrophysical Journal Letters</i> , 2011, 732, L17.	3.0	64

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19	The R-Process Alliance: 2MASS J09544277+5246414, the Most Actinide-enhanced R-II Star Known. <i>Astrophysical Journal Letters</i> , 2018, 859, L24.	3.0	64
20	The R-Process Alliance: Fourth Data Release from the Search for R-process-enhanced Stars in the Galactic Halo. <i>Astrophysical Journal, Supplement Series</i> , 2020, 249, 30.	3.0	61
21	Evidence for an Aspherical Population III Supernova Explosion Inferred from the Hyper-metal-poor Star HE 1327-2326. <i>Astrophysical Journal</i> , 2019, 876, 97.	1.6	55
22	NEW ABUNDANCE DETERMINATIONS OF CADMIUM, LUTETIUM, AND OSMIUM IN THE R-PROCESS ENRICHED STAR BD +17 3248. <i>Astrophysical Journal Letters</i> , 2010, 714, L123-L127.	3.0	54
23	NEW DETECTIONS OF ARSENIC, SELENIUM, AND OTHER HEAVY ELEMENTS IN TWO METAL-POOR STARS. <i>Astrophysical Journal</i> , 2014, 791, 32.	1.6	54
24	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> , 2014, 445, 2970-2984.	1.6	54
25	Europium, Samarium, and Neodymium Isotopic Fractions in Metal-Poor Stars. <i>Astrophysical Journal</i> , 2008, 675, 723-745.	1.6	53
26	HEAVY-ELEMENT DISPERSION IN THE METAL-POOR GLOBULAR CLUSTER M92. <i>Astronomical Journal</i> , 2011, 142, 22.	1.9	53
27	CHEMICAL INHOMOGENEITIES IN THE MILKY WAY STELLAR HALO. <i>Astronomical Journal</i> , 2009, 137, 272-295.	1.9	52
28	The R-Process Alliance: A Comprehensive Abundance Analysis of HD 222925, a Metal-poor Star with an Extreme R-process Enhancement of $[Eu/H] = 0.14^*$ . <i>Astrophysical Journal</i> , 2018, 865, 129.	1.6	49
29	Linemake: An Atomic and Molecular Line List Generator. <i>Research Notes of the AAS</i> , 2021, 5, 92.	0.3	49
30	The Hobby-Eberly Telescope Chemical Abundances of Stars in the Halo (CASH) Project. I. The Lithium, $^{10}B$ , and $^{11}B$ -enhanced Metal-poor Giant HKII 17435-00532. <i>Astrophysical Journal</i> , 2008, 679, 1549-1565.	1.6	47
31	M2FS: the Michigan/Magellan Fiber System. <i>Proceedings of SPIE</i> , 2012, , .	0.8	47
32	ELEMENTAL ABUNDANCES OF SOLAR SIBLING CANDIDATES. <i>Astrophysical Journal</i> , 2014, 787, 154.	1.6	46
33	The R-Process Alliance: First Magellan/MIKE Release from the Southern Search for R-process-enhanced Stars*. <i>Astrophysical Journal</i> , 2020, 898, 150.	1.6	46
34	DETECTION OF THE SECOND R-PROCESS PEAK ELEMENT TELLURIUM IN METAL-POOR STARS. <i>Astrophysical Journal Letters</i> , 2012, 747, L8.	3.0	44
35	Old, Metal-poor Extreme Velocity Stars in the Solar Neighborhood*. <i>Astrophysical Journal</i> , 2018, 866, 121.	1.6	42
36	Chemical abundances in bright giants of the globular cluster M62 (NGC 6266). <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 439, 2638-2650.	1.6	41

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37	DETECTION OF NEUTRAL PHOSPHORUS IN THE NEAR-ULTRAVIOLET SPECTRA OF LATE-TYPE STARS. <i>Astrophysical Journal</i> , 2014, 797, 69.	1.6	39
38	GERMANIUM, ARSENIC, AND SELENIUM ABUNDANCES IN METAL-POOR STARS*. <i>Astrophysical Journal</i> , 2012, 756, 36.	1.6	38
39	Detailed chemical abundances in NGC 5824: another metal-poor globular cluster with internal heavy element abundance variations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 455, 2417-2439.	1.6	38
40	The r-process Pattern of a Bright, Highly r-process-enhanced Metal-poor Halo Star at $[Fe/H] \approx -1.4$ . <i>Astrophysical Journal Letters</i> , 2018, 854, L20.	3.0	38
41	Detailed abundance analysis of the brightest star in Segue 2, the least massive galaxy.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 440, 2665-2675.	1.6	35
42	The R-Process Alliance: Chemodynamically Tagged Groups of Halo r-process-enhanced Stars Reveal a Shared Chemical-evolution History. <i>Astrophysical Journal</i> , 2021, 908, 79.	1.6	34
43	HUBBLE SPACE TELESCOPE NEAR-ULTRAVIOLET SPECTROSCOPY OF THE BRIGHT CEMP-NO STAR BD+44 493. <i>Astrophysical Journal</i> , 2014, 790, 34.	1.6	33
44	HUBBLE SPACE TELESCOPE NEAR-ULTRAVIOLET SPECTROSCOPY OF BRIGHT CEMP-NO STARS. <i>Astrophysical Journal</i> , 2015, 812, 109.	1.6	33
45	Spectroscopic Validation of Low-metallicity Stars from RAVE. <i>Astronomical Journal</i> , 2018, 155, 256.	1.9	32
46	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*. <i>Astrophysical Journal, Supplement Series</i> , 2022, 260, 27.	3.0	32
47	Detailed abundances of 15 stars in the metal-poor globular cluster NGC 4833.... <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 449, 3889-3910.	1.6	30
48	A New Test of Copper and Zinc Abundances in Late-type Stars Using Ultraviolet Cu ii and Zn ii Lines*. <i>Astrophysical Journal</i> , 2018, 857, 2.	1.6	30
49	DETECTION OF PHOSPHORUS, SULPHUR, AND ZINC IN THE CARBON-ENHANCED METAL-POOR STAR BD+44 493*. <i>Astrophysical Journal Letters</i> , 2016, 824, L19.	3.0	28
50	RELICS: Strong Lensing Analysis of MACS J0417.5-1154 and Predictions for Observing the Magnified High-redshift Universe with JWST. <i>Astrophysical Journal</i> , 2019, 873, 96.	1.6	27
51	THE CHEMICAL EVOLUTION OF PHOSPHORUS. <i>Astrophysical Journal Letters</i> , 2014, 796, L24.	3.0	24
52	The R-process Alliance: The Peculiar Chemical Abundance Pattern of RAVE J183013.5+455510*. <i>Astrophysical Journal</i> , 2020, 897, 78.	1.6	24
53	The R-Process Alliance: Chemical Abundances for a Trio of r-process-enhanced Stars – One Strong, One Moderate, and One Mild*. <i>Astrophysical Journal</i> , 2018, 864, 43.	1.6	22
54	Dynamical masses and mass-to-light ratios of resolved massive star clusters – II. Results for 26 star clusters in the Magellanic Clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 4160-4191.	1.6	22

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55	SPLUS J210428.01 <sup>+</sup> 004934.2: An Ultra Metal-poor Star Identified from Narrowband Photometry*. <i>Astrophysical Journal Letters</i> , 2021, 912, L32.	3.0	22
56	THE ORIGIN OF THE HEAVIEST METALS IN MOST ULTRA-FAINT DWARF GALAXIES. <i>Astrophysical Journal</i> , 2017, 835, 23.	1.6	21
57	Consistent Iron Abundances Derived from Neutral and Singly Ionized Iron Lines in Ultraviolet and Optical Spectra of Six Warm Metal-poor Stars <sup>+</sup> . <i>Astrophysical Journal</i> , 2018, 860, 125.	1.6	21
58	The R-Process Alliance: Spectroscopic Follow-up of Low-metallicity Star Candidates from the Best & Brightest Survey. <i>Astrophysical Journal</i> , 2019, 870, 122.	1.6	21
59	The R-Process Alliance: Discovery of a Low- $\alpha$ , r-process-enhanced Metal-poor Star in the Galactic Halo. <i>Astrophysical Journal</i> , 2019, 874, 148.	1.6	18
60	Detailed Iron-peak Element Abundances in Three Very Metal-poor Stars*. <i>Astrophysical Journal</i> , 2020, 890, 119.	1.6	18
61	High-resolution Optical Spectroscopy of Stars in the Sylgr Stellar Stream*. <i>Astrophysical Journal</i> , 2019, 883, 84.	1.6	17
62	R-process-rich Stellar Streams in the Milky Way*. <i>Astrophysical Journal</i> , 2021, 912, 52.	1.6	16
63	Identification of Near-infrared [Se iii] and [Kr vi] Emission Lines in Planetary Nebulae <sup>+</sup> . <i>Astrophysical Journal</i> , 2017, 840, 80.	1.6	14
64	Vanadium Abundance Derivations in 255 Metal-poor Stars*. <i>Astrophysical Journal</i> , 2020, 900, 106.	1.6	14
65	NEUTRON-CAPTURE ELEMENT ABUNDANCES IN MAGELLANIC CLOUD PLANETARY NEBULAE <sup>+</sup> . <i>Astrophysical Journal Letters</i> , 2016, 831, L3.	3.0	13
66	Atomic Transition Probabilities of Neutral Calcium*. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 27.	3.0	12
67	Origin of a Massive Hyper-runaway Subgiant Star LAMOST-HVS1: Implication from Gaia and Follow-up Spectroscopy. <i>Astrophysical Journal</i> , 2019, 873, 116.	1.6	11
68	The R-Process Alliance: A Very Metal-poor, Extremely r-process-enhanced Star with [Eu/Fe] $\hat{=}$ $\hat{+}$ $\hat{2.2}$ , and the Class of r-II $\hat{A}$ Stars*. <i>Astrophysical Journal</i> , 2020, 898, 40.	1.6	11
69	Detection of Pb II in the Ultraviolet Spectra of Three Metal-poor Stars*. <i>Astrophysical Journal Letters</i> , 2020, 902, L24.	3.0	10
70	Detection of Al II in the Ultraviolet Spectra of Metal-poor Stars: An Empirical LTE Test of NLTE Aluminum Abundance Calculations*. <i>Astrophysical Journal</i> , 2021, 912, 119.	1.6	9
71	Dynamical masses and mass-to-light ratios of resolved massive star clusters $\hat{\in}$ I. NGC $\hat{A}$ 419 and NGC 1846. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 385-407.	1.6	8
72	An Expanded Chemo-dynamical Sample of Red Giants in the Bar of the Large Magellanic Cloud. <i>Astronomical Journal</i> , 2017, 153, 261.	1.9	6

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73	Hyperfine Structure Constants for Levels of $^{175}\text{Lu}^{+}$ . Astrophysical Journal, Supplement Series, 2020, 248, 10.	3.0	6
74	Improved Atomic Transition Probabilities for UV and Optical Lines of Hf II and Determination of the Hf Abundance in Two Metal-poor Stars*. Astrophysical Journal, Supplement Series, 2021, 254, 5.	3.0	5
75	Flickering Red Giants in the Ursa Minor Dwarf Spheroidal Galaxy: Detection of Low-Amplitude Variability in Faint Red Giant Branch Stars on 10 Minute Timescales. Astrophysical Journal, 2004, 617, L41-L44.	1.6	2
76	Probing the He re-ionization ERA via Absorbing C iv Historical Yield (HIERACHY) I: A strong outflow from a $z \approx 4.7$ quasar. Monthly Notices of the Royal Astronomical Society, 2021, 505, 4444-4455.	1.6	2
77	Orbital Parameters and Binary Properties of 37 FGK Stars in the Cores of Open Clusters NGC 2516 and NGC 2422. Astronomical Journal, 2021, 162, 285.	1.9	1
78	Hubble Space Telescope Ultraviolet Spectroscopy of the Most Iron-poor Star Known*. Research Notes of the AAS, 2017, 1, 56.	0.3	0
79	The Environment of the $r$ -process: New Advances Enabled by the Study of the Orbits of $r$ -process-enhanced Stars. , 2020, , .		0