

# John J Cowan

## List of Publications by Year in descending order

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39  
papers

6,165  
citations

172457

29  
h-index

377865

34  
g-index

40  
all docs

40  
docs citations

40  
times ranked

2422  
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutron-Capture Elements in the Early Galaxy. Annual Review of Astronomy and Astrophysics, 2008, 46, 241-288.	24.3	715
2	The R-process and nucleochronology. Physics Reports, 1991, 208, 267-394.	25.6	544
3	Galactic Evolution of Sr, Y, and Zr: A Multiplicity of Nucleosynthetic Processes. Astrophysical Journal, 2004, 601, 864-884.	4.5	500
4	Neutron-Capture Elements in the Early Galaxy: Insights from a Large Sample of Metal-poor Giants. Astrophysical Journal, 2000, 544, 302-319.	4.5	453
5	The Extremely Metal-poor, Neutron Capture-rich Star CS 22892-052: A Comprehensive Abundance Analysis. Astrophysical Journal, 2003, 591, 936-953.	4.5	430
6	The Ultra-Metal-poor, Neutron-Capture-rich Giant Star CS 22892-052. Astrophysical Journal, 1996, 467, 819.	4.5	414
7	Origin of the heaviest elements: The rapid neutron-capture process. Reviews of Modern Physics, 2021, 93, .	45.6	326
8	The Rise of the r-Process in the Galaxy. Astrophysical Journal, 2004, 617, 1091-1114.	4.5	291
9	The Chemical Composition and Age of the Metal-poor Halo Star BD +17o3248. Astrophysical Journal, 2002, 572, 861-879.	4.5	267
10	The r-Process-enriched Low-Metallicity Giant HD 115444. Astrophysical Journal, 2000, 530, 783-799.	4.5	244
11	r-Process Abundances and Chronometers in Metal-poor Stars. Astrophysical Journal, 1999, 521, 194-205.	4.5	200
12	Near-Ultraviolet Observations of HD 221170: New Insights into the Nature of r-Process-rich Stars. Astrophysical Journal, 2006, 645, 613-633.	4.5	186
13	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.	7.7	165
14	Abundances of neutron capture elements in Population II stars. Astrophysical Journal, 1988, 327, 298.	4.5	146
15	THE UBIQUITY OF THE RAPID NEUTRON-CAPTURE PROCESS*. Astrophysical Journal, 2010, 724, 975-993.	4.5	144
16	Thorium and Uranium Chronometers Applied to CS 31082-001. Astrophysical Journal, 2002, 579, 626-638.	4.5	142
17	The r-Process in Collapsing O/N-M Cores. Astrophysical Journal, 1998, 493, L101-L104.	4.5	114
18	Hubble Space Telescope Observations of Heavy Elements in Metal-poor Galactic Halo Stars. Astrophysical Journal, 2005, 627, 238-250.	4.5	107

#	ARTICLE	IF	CITATIONS
19	Heavy element synthesis in the oldest stars and the early Universe. <i>Nature</i> , 2006, 440, 1151-1156.	27.8	101
20	The Thorium Chronometer in CS 22892-052: Estimates of the Age of the Galaxy. <i>Astrophysical Journal</i> , 1997, 480, 246-254.	4.5	96
21	THE END OF NUCLEOSYNTHESIS: PRODUCTION OF LEAD AND THORIUM IN THE EARLY GALAXY. <i>Astrophysical Journal</i> , 2009, 698, 1963-1980.	4.5	90
22	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.	4.5	88
23	Genesis of the Heaviest Elements in the Milky Way Galaxy. <i>Science</i> , 2003, 299, 70-75.	12.6	69
24	The R-Process Alliance: 2MASS J09544277+5246414, the Most Actinide-enhanced R-II Star Known. <i>Astrophysical Journal Letters</i> , 2018, 859, L24.	8.3	64
25	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.	8.3	54
26	NEW DETECTIONS OF ARSENIC, SELENIUM, AND OTHER HEAVY ELEMENTS IN TWO METAL-POOR STARS. <i>Astrophysical Journal</i> , 2014, 791, 32.	4.5	54
27	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.	4.4	54
28	DETECTION OF THE SECOND r-PROCESS PEAK ELEMENT TELLURIUM IN METAL-POOR STARS. <i>Astrophysical Journal Letters</i> , 2012, 747, L8.	8.3	44
29	HUBBLE SPACE TELESCOPE NEAR-ULTRAVIOLET SPECTROSCOPY OF BRIGHT CEMP-s STARS. <i>Astrophysical Journal</i> , 2015, 812, 109.	4.5	33
30	Vanadium Abundance Derivations in 255 Metal-poor Stars*. <i>Astrophysical Journal</i> , 2020, 900, 106.	4.5	14
31	Atomic Transition Probabilities of Neutral Calcium*. <i>Astrophysical Journal</i> , Supplement Series, 2021, 255, 27.	7.7	12
32	Supernova birth for a black hole. <i>Nature</i> , 1999, 401, 124-125.	27.8	1
33	A constant surprise. <i>Nature</i> , 2007, 448, 29-29.	27.8	1
34	Constraints on the Nature of the s- and r-processes. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 46-53.	0.0	1
35	R-PROCESS ABUNDANCE SIGNATURES. , 2003, , .		1
36	CS29497-030 Abundance Constraints on Neutron-Capture Nucleosynthesis. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 467-472.	0.0	0

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37	Abundance Signatures in Halo Stars: Clues to Nucleosynthesis in the First Stars. , 2008, , .		0
38	Europium, Samarium, and Neodymium Isotopic Fractions in Metal-Poor Stars. , 2008, , .		0
39	The Lithium-, r- and s-Enhanced Metal-Poor Giant HK-II 17435-00532. AIP Conference Proceedings, 2008, , .	0.4	0