

John J Cowan

List of Publications by Year in descending order

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39
papers

6,165
citations

196777

29
h-index

425179

34
g-index

40
all docs

40
docs citations

40
times ranked

2536
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of the heaviest elements: The rapid neutron-capture process. <i>Reviews of Modern Physics</i> , 2021, 93, .	16.4	326
2	Atomic Transition Probabilities of Neutral Calcium*. <i>Astrophysical Journal, Supplement Series</i> , 2021, 255, 27.	3.0	12
3	Vanadium Abundance Derivations in 255 Metal-poor Stars*. <i>Astrophysical Journal</i> , 2020, 900, 106.	1.6	14
4	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
5	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
6	<i>HUBBLE SPACE TELESCOPE</i> NEAR-ULTRAVIOLET SPECTROSCOPY OF BRIGHT CEMP- <i>s</i> STARS. <i>Astrophysical Journal</i> , 2015, 812, 109.	1.6	33
7	NEW DETECTIONS OF ARSENIC, SELENIUM, AND OTHER HEAVY ELEMENTS IN TWO METAL-POOR STARS. <i>Astrophysical Journal</i> , 2014, 791, 32.	1.6	54
8	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
9	DETECTION OF THE SECOND <i>r</i> -PROCESS PEAK ELEMENT TELLURIUM IN METAL-POOR STARS,. <i>Astrophysical Journal Letters</i> , 2012, 747, L8.	3.0	44
10	NEW ABUNDANCE DETERMINATIONS OF CADMIUM, LUTETIUM, AND OSMIUM IN THE <i>r</i> -PROCESS ENRICHED STAR BD +17 3248 ^{<sup>Astrophysical Journal Letters, 2010, 714, L123-L127.}	3.0	54
11	THE UBIQUITY OF THE RAPID NEUTRON-CAPTURE PROCESS*. <i>Astrophysical Journal</i> , 2010, 724, 975-993.	1.6	144
12	NEW RARE EARTH ELEMENT ABUNDANCE DISTRIBUTIONS FOR THE SUN AND FIVE <i>r</i> -PROCESS-RICH VERY METAL-POOR STARS. <i>Astrophysical Journal, Supplement Series</i> , 2009, 182, 80-96.	3.0	165
13	THE END OF NUCLEOSYNTHESIS: PRODUCTION OF LEAD AND THORIUM IN THE EARLY GALAXY. <i>Astrophysical Journal</i> , 2009, 698, 1963-1980.	1.6	90
14	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
15	Neutron-Capture Elements in the Early Galaxy. <i>Annual Review of Astronomy and Astrophysics</i> , 2008, 46, 241-288.	8.1	715
16	Abundance Signatures in Halo Stars: Clues to Nucleosynthesis in the First Stars. , 2008, , .		0
17	Europium, Samarium, and Neodymium Isotopic Fractions in Metal-Poor Stars. , 2008, , .		0
18	The Lithium-, r- and s-Enhanced Metal-Poor Giant HK-II 17435-00532. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0

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19	A constant surprise. <i>Nature</i> , 2007, 448, 29-29.	13.7	1
20	Near-Ultraviolet Observations of HD 221170: New Insights into the Nature of r-Process-rich Stars. <i>Astrophysical Journal</i> , 2006, 645, 613-633.	1.6	186
21	Heavy element synthesis in the oldest stars and the early Universe. <i>Nature</i> , 2006, 440, 1151-1156.	13.7	101
22	CS29497-030 Abundance Constraints on Neutron-Capture Nucleosynthesis. <i>Proceedings of the International Astronomical Union</i> , 2005, 1, 467-472.	0.0	0
23	Hubble Space Telescope Observations of Heavy Elements in Metal-Poor Galactic Halo Stars. <i>Astrophysical Journal</i> , 2005, 627, 238-250.	1.6	107
24	Galactic Evolution of Sr, Y, and Zr: A Multiplicity of Nucleosynthetic Processes. <i>Astrophysical Journal</i> , 2004, 601, 864-884.	1.6	500
25	The Rise of the r-Process in the Galaxy. <i>Astrophysical Journal</i> , 2004, 617, 1091-1114.	1.6	291
26	Genesis of the Heaviest Elements in the Milky Way Galaxy. <i>Science</i> , 2003, 299, 70-75.	6.0	69
27	The Extremely Metal-Poor, Neutron Capture-rich Star CS 22892-052: A Comprehensive Abundance Analysis. <i>Astrophysical Journal</i> , 2003, 591, 936-953.	1.6	430
28	R-PROCESS ABUNDANCE SIGNATURES. , 2003, , .		1
29	The Chemical Composition and Age of the Metal-Poor Halo Star BD +17o3248. <i>Astrophysical Journal</i> , 2002, 572, 861-879.	1.6	267
30	Thorium and Uranium Chronometers Applied to CS 31082-001. <i>Astrophysical Journal</i> , 2002, 579, 626-638.	1.6	142
31	Neutron-Capture Elements in the Early Galaxy: Insights from a Large Sample of Metal-Poor Giants. <i>Astrophysical Journal</i> , 2000, 544, 302-319.	1.6	453
32	The r-Process-enriched Low-Metallicity Giant HD 115444. <i>Astrophysical Journal</i> , 2000, 530, 783-799.	1.6	244
33	Supernova birth for a black hole. <i>Nature</i> , 1999, 401, 124-125.	13.7	1
34	r-Process Abundances and Chronometers in Metal-Poor Stars. <i>Astrophysical Journal</i> , 1999, 521, 194-205.	1.6	200
35	The [r]-Process in Collapsing O/N-M cores. <i>Astrophysical Journal</i> , 1998, 493, L101-L104.	1.6	114
36	The Thorium Chronometer in CS 22892-052: Estimates of the Age of the Galaxy. <i>Astrophysical Journal</i> , 1997, 480, 246-254.	1.6	96

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37	The Ultra-Metal-poor, Neutron-Capture-rich Giant Star CS 22892-052. <i>Astrophysical Journal</i> , 1996, 467, 819.	1.6	414
38	The R-process and nucleochronology. <i>Physics Reports</i> , 1991, 208, 267-394.	10.3	544
39	Abundances of neutron capture elements in Population II stars. <i>Astrophysical Journal</i> , 1988, 327, 298.	1.6	146