

John Charles Lattanzio

List of Publications by Year in descending order

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97
papers

4,084
citations

126907

33
h-index

133252

59
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98
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98
docs citations

98
times ranked

2496
citing authors

#	ARTICLE	IF	CITATIONS
1	The Dawes Review 2: Nucleosynthesis and Stellar Yields of Low- and Intermediate-Mass Single Stars. Publications of the Astronomical Society of Australia, 0, 31, .	3.4	498
2	Stellar Models and Yields of Asymptotic Giant Branch Stars. Publications of the Astronomical Society of Australia, 2007, 24, 103-117.	3.4	256
3	Super- and massive AGB stars â€œ IV. Final fates â€œ initial-to-final mass relation. Monthly Notices of the Royal Astronomical Society, 2015, 446, 2599-2612.	4.4	185
4	Deep Mixing of 3He : Reconciling Big Bang and Stellar Nucleosynthesis. Science, 2006, 314, 1580-1583.	12.6	181
5	Reaction Rate Uncertainties and the Production of ^{19}F in Asymptotic Giant Branch Stars. Astrophysical Journal, 2004, 615, 934-946.	4.5	174
6	â€œProcess Nucleosynthesis in Asymptotic Giant Branch Stars: A Test for Stellar Evolution. Astrophysical Journal, 2003, 586, 1305-1319.	4.5	162
7	The asymptotic giant branch evolution of 1.0-3.0 solar mass stars as a function of mass and composition. Astrophysical Journal, 1986, 311, 708.	4.5	134
8	Super and massive AGB stars â€œ II. Nucleosynthesis and yields â€œ $Z=0.02, 0.008$ and 0.004 . Monthly Notices of the Royal Astronomical Society, 2013, 437, 195-214.	4.4	133
9	Silicon and Carbon Isotopic Ratios in AGB Stars: SiC Grain Data, Models, and the Galactic Evolution of the Si Isotopes. Astrophysical Journal, 2006, 650, 350-373.	4.5	125
10	Structure, Evolution, and Nucleosynthesis of Primordial Stars. Astrophysical Journal, 2002, 570, 329-343.	4.5	118
11	Compulsory Deep Mixing of ^3He and CNO Isotopes in the Envelopes of Low-Mass Red Giants. Astrophysical Journal, 2008, 677, 581-592.	4.5	111
12	A LARGE C+N+O ABUNDANCE SPREAD IN GIANT STARS OF THE GLOBULAR CLUSTER NGC 1851. Astrophysical Journal, 2009, 695, L62-L66.	4.5	108
13	Super-AGB Stars and their Role as Electron Capture Supernova Progenitors. Publications of the Astronomical Society of Australia, 2017, 34, .	3.4	106
14	BEYOND MIXING-LENGTH THEORY: A STEP TOWARD 3D . Astrophysical Journal, 2015, 809, 30.	4.5	105
15	Super and massive AGB stars â€œ III. Nucleosynthesis in metal-poor and very metal-poor stars â€œ $Z = 0.001$ and 0.0001 . Monthly Notices of the Royal Astronomical Society, 2014, 441, 582-598.	4.4	91
16	The treatment of mixing in core helium burning models â€œ I. Implications for asteroseismology. Monthly Notices of the Royal Astronomical Society, 2015, 452, 123-145.	4.4	91
17	Fluorine Abundance Variations in Red Giants of the Globular Cluster M4 and Early-Cluster Chemical Pollution. Astrophysical Journal, 2005, 633, 392-397.	4.5	84
18	THREE-DIMENSIONAL HYDRODYNAMICAL SIMULATIONS OF A PROTON INGESTION EPISODE IN A LOW-METALLICITY ASYMPTOTIC GIANT BRANCH STAR. Astrophysical Journal, 2011, 742, 121.	4.5	78

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19	Stellar origin of the ^{182}Hf cosmochronometer and the presolar history of solar system matter. <i>Science</i> , 2014, 345, 650-653.	12.6	73
20	Three-dimensional Numerical Experimentation on the Core Helium Flash of Low-Mass Red Giants. <i>Astrophysical Journal</i> , 2006, 639, 405-415.	4.5	72
21	Galactic Chemical Evolution of Lithium: Interplay between Stellar Sources. <i>Astrophysical Journal</i> , 2001, 559, 909-924.	4.5	70
22	On the origin of fluorine in the Milky Way. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 354, 575-580.	4.4	70
23	Sodium content as a predictor of the advanced evolution of globular cluster stars. <i>Nature</i> , 2013, 498, 198-200.	27.8	69
24	BLUE STRAGGLERS AFTER THE MAIN SEQUENCE. <i>Astrophysical Journal</i> , 2009, 692, 1411-1420.	4.5	64
25	A simulation of the collapse and fragmentation of cooling molecular clouds. <i>Astrophysical Journal</i> , 1991, 375, 177.	4.5	63
26	Tidal Interactions between Binary Stars Can Drive Lithium Production in Low-mass Red Giants. <i>Astrophysical Journal</i> , 2019, 880, 125.	4.5	59
27	The depletion of carbon by extra mixing in metal-poor giants. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 396, 2313-2318.	4.4	53
28	Nuclear reaction rate uncertainties and astrophysical modeling: Carbon yields from low-mass giants. <i>Physical Review C</i> , 2006, 73, .	2.9	48
29	THE ROLE OF THERMOHALINE MIXING IN INTERMEDIATE- AND LOW-METALLICITY GLOBULAR CLUSTERS. <i>Astrophysical Journal</i> , 2012, 749, 128.	4.5	47
30	Carbon dredge-up in low-mass stars and solar metallicity stars. <i>Astrophysical Journal</i> , 1989, 344, L25.	4.5	43
31	The treatment of mixing in core helium burning models – II. Constraints from cluster star counts. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 3866-3885.	4.4	40
32	Short-lived radioactivity in the early solar system: The Super-AGB star hypothesis. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1998-2012.	1.6	38
33	THERMOHALINE MIXING AND ITS ROLE IN THE EVOLUTION OF CARBON AND NITROGEN ABUNDANCES IN GLOBULAR CLUSTER RED GIANTS: THE TEST CASE OF MESSIER 3. <i>Astrophysical Journal</i> , 2011, 728, 79.	4.5	37
34	The eccentricities of the barium stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 316, 689-698.	4.4	35
35	ON THE NECESSITY OF COMPOSITION-DEPENDENT LOW-TEMPERATURE OPACITY IN MODELS OF METAL-POOR ASYMPTOTIC GIANT BRANCH STARS. <i>Astrophysical Journal</i> , 2014, 784, 56.	4.5	29
36	The treatment of mixing in core helium-burning models – III. Suppressing core breathing pulses with a new constraint on overshoot. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 472, 4900-4909.	4.4	29

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37	Stellar evolutionary models from the zero-age main sequence to the first thermal pulse. <i>Astrophysical Journal, Supplement Series</i> , 1991, 76, 215.	7.7	28
38	Diagnostics of stellar modelling from spectroscopy and photometry of globular clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2423-2440.	4.4	27
39	Evolution, Nucleosynthesis, and Pulsation of AGB Stars. <i>Astronomy and Astrophysics Library</i> , 2004, , 23-104.	0.1	25
40	LITHIUM ABUNDANCES IN GLOBULAR CLUSTER GIANTS: NGC 6218 (M12) AND NGC 5904 (M5). <i>Astrophysical Journal</i> , 2014, 791, 39.	4.5	24
41	The formation of a 1.5-solar mass carbon star with $M_{bol} = -4.4$. <i>Astrophysical Journal</i> , 1987, 313, L15.	4.5	24
42	Nucleosynthesis in AGB Stars. Symposium - International Astronomical Union, 1999, 191, 31-40.	0.1	23
43	Collisions between rotating interstellar clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 1988, 232, 565-614.	4.4	22
44	A phenomenological modification of thermohaline mixing in globular cluster red giants. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 4600-4612.	4.4	22
45	Evolution and nucleosynthesis of helium-rich asymptotic giant branch models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 2804-2821.	4.4	21
46	Hot Bottom Burning in a 5 M_{\odot} Model. <i>Publications of the Astronomical Society of Australia</i> , 1992, 10, 120-121.	3.4	19
47	Why Do Low-Mass Stars Become Red Giants?. <i>Publications of the Astronomical Society of Australia</i> , 2009, 26, 203-208.	3.4	19
48	ON THE SERENDIPITOUS DISCOVERY OF A Li-RICH GIANT IN THE GLOBULAR CLUSTER NGC 362. <i>Astrophysical Journal Letters</i> , 2015, 801, L32.	8.3	19
49	Primordial to extremely metal-poor AGB and Super-AGB stars: White dwarf or supernova progenitors?. <i>Publications of the Astronomical Society of Australia</i> , 2018, 35, .	3.4	15
50	Gravitational fragmentation - A comparison with W49A. <i>Astrophysical Journal</i> , 1991, 383, 639.	4.5	14
51	Photofission production of technetium and synthetic asymptotic giant branch evolution. <i>Astrophysical Journal</i> , 1989, 347, 989.	4.5	12
52	Discovery of a Metal-poor, Luminous Post-AGB Star that Failed the Third Dredge-up. <i>Astrophysical Journal</i> , 2017, 836, 15.	4.5	11
53	On the discovery of K-enhanced and possibly Mg-depleted stars throughout the Milky Way. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 1384-1392.	4.4	9
54	Discovery of s-process enhanced stars in the LAMOST survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 2219-2227.	4.4	9

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55	A Data-driven Model of Nucleosynthesis with Chemical Tagging in a Lower-dimensional Latent Space. <i>Astrophysical Journal</i> , 2019, 887, 73.	4.5	9
56	Thermohaline Mixing in Extremely Metal-poor Stars. <i>Astrophysical Journal Letters</i> , 2018, 863, L5.	8.3	7
57	Energy generation in convective shells of low-mass, low-metallicity asymptotic giant branch stars. <i>Astrophysical Journal</i> , 1993, 409, 762.	4.5	6
58	The destruction of 3He by Rayleigh-Taylor instability on the first giant branch. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 286-293.	0.0	5
59	Uncertainties in AGB evolution and nucleosynthesis. <i>Journal of Physics: Conference Series</i> , 2016, 728, 022002.	0.4	5
60	Nucleosynthesis in AGB Stars: the Role of Dredge-Up and Hot Bottom Burning. <i>Symposium - International Astronomical Union</i> , 2003, 209, 73-81.	0.1	4
61	Which physics determines the location of the mean molecular weight minimum in red giants?. <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 443, 977-984.	4.4	4
62	Cosmic biology in perspective. <i>Astrophysics and Space Science</i> , 2019, 364, 1.	1.4	4
63	The Formation of Red Giants. <i>Publications of the Astronomical Society of Australia</i> , 1992, 10, 125-127.	3.4	3
64	Nucleosynthesis in Intermediate-Mass Stars. <i>Symposium - International Astronomical Union</i> , 2000, 177, 449-458.	0.1	3
65	The effect of grain sedimentation on stellar evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 1984, 207, 309-322.	4.4	2
66	Evolution and Mixing on the Agb. <i>International Astronomical Union Colloquium</i> , 1989, 106, 161-175.	0.1	2
67	<i>s</i> -Process Nucleosynthesis on the Asymptotic Giant Branch. <i>Publications of the Astronomical Society of Australia</i> , 1992, 10, 99-103.	3.4	2
68	What asteroseismology can teach us about low-mass core helium burning models. <i>Proceedings of the International Astronomical Union</i> , 2013, 9, 399-400.	0.0	2
69	A hydrodynamical study of fragmenting gas clouds. <i>Symposium - International Astronomical Union</i> , 1991, 147, 464-465.	0.1	1
70	How Binary Stars affect Galactic Chemical Evolution. <i>Symposium - International Astronomical Union</i> , 1999, 191, 447-452.	0.1	1
71	The Sixth Torino Workshop. <i>Publications of the Astronomical Society of Australia</i> , 2003, 20, vi-vi.	3.4	1
72	AGB Stars: Remaining Problems. <i>Proceedings of the International Astronomical Union</i> , 2018, 14, 3-8.	0.0	1

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73	Grain sedimentation and main sequence evolution. Symposium - International Astronomical Union, 1984, 105, 109-112.	0.1	0
74	Hydrodynamical Simulations of Collisions between Interstellar Clouds. Annals of the New York Academy of Sciences, 1990, 617, 158-177.	3.8	0
75	A hydrodynamical model for the fragmentation of the W49A star-forming region. Symposium - International Astronomical Union, 1991, 147, 449-450.	0.1	0
76	A hydrodynamical study of fragmenting gas clouds. Symposium - International Astronomical Union, 1991, 147, 464-465.	0.1	0
77	A hydrodynamical model for the fragmentation of the W49A star-forming region. Symposium - International Astronomical Union, 1991, 147, 449-450.	0.1	0
78	Numerical Modelling of Star Formation in GMCs. Publications of the Astronomical Society of Australia, 1992, 10, 122-124.	3.4	0
79	What Theorists Think They Know about AGB Stars. Symposium - International Astronomical Union, 2000, 177, 7-9.	0.1	0
80	Working Group on Abundances in Red Giants: (Groupe De Travail Pour Les Abondances Dans Les) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.0	0
81	Joint Discussion 11 Pre-solar grains as astrophysical tools. Proceedings of the International Astronomical Union, 2006, 2, 339-340.	0.0	0
82	Nucleosynthesis in Binary Stars. Science, 2006, 311, 345-346.	12.6	0
83	Compulsory Deep Mixing of [³ He and CNO Isotopes on the First Giant Branch. , 2007, , .		0
84	DIVISION IV / WG: ABUNDANCES IN RED GIANTS. Proceedings of the International Astronomical Union, 2007, 3, 150-150.	0.0	0
85	Single Star Progenitors for Type Ia Supernovae. , 2007, , .		0
86	Division IV Working Group: Abundances In Red Giants (Groupe Be Travail Sur Les Abondances Dans Les) Tj ETQq0 0 0 rgBT /Overlock 10	0.0	0
87	COMMISSION 35: STELLAR CONSTITUTION. Proceedings of the International Astronomical Union, 2008, 4, 211-221.	0.0	0
88	DIVISION IV / WORKING GROUP ABUNDANCES IN RED-GIANTS. Proceedings of the International Astronomical Union, 2008, 4, 240-241.	0.0	0
89	Fifty Years of Nuclear Astrophysics: A Foreword. Publications of the Astronomical Society of Australia, 2008, 25, i-i.	3.4	0
90	The Origin of Elements Heavier than Iron: in Honour of the 70th Birthday of Roberto Gallino. Publications of the Astronomical Society of Australia, 2009, 26, i-ii.	3.4	0

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91	Lithium production by thermohaline mixing in low-mass, low-metallicity asymptotic giant branch stars. Proceedings of the International Astronomical Union, 2009, 5, 405-410.	0.0	0
92	COMMISSION 35: STELLAR CONSTITUTION. Proceedings of the International Astronomical Union, 2011, 7, 161-189.	0.0	0
93	WORKING GROUP on ABUNDANCES IN RED-GIANTS. Proceedings of the International Astronomical Union, 2011, 7, 196-198.	0.0	0
94	Three-dimensional modelling of proton ingestion episodes in low-mass stars. , 2012, , .		0
95	Hiding in plain sight - red supergiant imposters? Super-AGB stars. Proceedings of the International Astronomical Union, 2015, 11, 446-446.	0.0	0
96	Monash Chemical Yields Project (Monikey) Element production in low- and intermediate-mass stars. Proceedings of the International Astronomical Union, 2015, 11, 164-165.	0.0	0
97	Eccentricities of the Barium Stars. Astrophysics and Space Science Library, 2001, , 117-124.	2.7	0