

John Charles Lattanzio

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8595004/publications.pdf>

Version: 2024-02-01

97
papers

4,084
citations

126907

33
h-index

133252

59
g-index

98
all docs

98
docs citations

98
times ranked

2496
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of s-process enhanced stars in the LAMOST survey. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2219-2227.	4.4	9
2	Tidal Interactions between Binary Stars Can Drive Lithium Production in Low-mass Red Giants. Astrophysical Journal, 2019, 880, 125.	4.5	59
3	A Data-driven Model of Nucleosynthesis with Chemical Tagging in a Lower-dimensional Latent Space. Astrophysical Journal, 2019, 887, 73.	4.5	9
4	Cosmic biology in perspective. Astrophysics and Space Science, 2019, 364, 1.	1.4	4
5	Thermohaline Mixing in Extremely Metal-poor Stars. Astrophysical Journal Letters, 2018, 863, L5.	8.3	7
6	Primordial to extremely metal-poor AGB and Super-AGB stars: White dwarf or supernova progenitors?. Publications of the Astronomical Society of Australia, 2018, 35, .	3.4	15
7	AGB Stars: Remaining Problems. Proceedings of the International Astronomical Union, 2018, 14, 3-8.	0.0	1
8	On the discovery of K-enhanced and possibly Mg-depleted stars throughout the Milky Way. Monthly Notices of the Royal Astronomical Society, 2018, 480, 1384-1392.	4.4	9
9	Super-AGB Stars and their Role as Electron Capture Supernova Progenitors. Publications of the Astronomical Society of Australia, 2017, 34, .	3.4	106
10	A phenomenological modification of thermohaline mixing in globular cluster red giants. Monthly Notices of the Royal Astronomical Society, 2017, 469, 4600-4612.	4.4	22
11	Discovery of a Metal-poor, Luminous Post-AGB Star that Failed the Third Dredge-up. Astrophysical Journal, 2017, 836, 15.	4.5	11
12	The treatment of mixing in core helium-burning models â€“ III. Suppressing core breathing pulses with a new constraint on overshoot. Monthly Notices of the Royal Astronomical Society, 2017, 472, 4900-4909.	4.4	29
13	Uncertainties in AGB evolution and nucleosynthesis. Journal of Physics: Conference Series, 2016, 728, 022002.	0.4	5
14	The treatment of mixing in core helium burning models â€“ II. Constraints from cluster star counts. Monthly Notices of the Royal Astronomical Society, 2016, 456, 3866-3885.	4.4	40
15	BEYOND MIXING-LENGTH THEORY: A STEP TOWARD 321D. Astrophysical Journal, 2015, 809, 30.	4.5	105
16	Evolution and nucleosynthesis of helium-rich asymptotic giant branch models. Monthly Notices of the Royal Astronomical Society, 2015, 452, 2804-2821.	4.4	21
17	Hiding in plain sight - red supergiant imposters? Super-AGB stars. Proceedings of the International Astronomical Union, 2015, 11, 446-446.	0.0	0
18	Monash Chemical Yields Project (Monižey) Element production in low- and intermediate-mass stars. Proceedings of the International Astronomical Union, 2015, 11, 164-165.	0.0	0

#	ARTICLE	IF	CITATIONS
19	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
20	The treatment of mixing in core helium burning models â€“ I. Implications for asteroseismology. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 452, 123-145.	4.4	91
21	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
22	Super- and massive AGB stars â€“ IV. Final fates â€“ initial-to-final mass relation. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 2599-2612.	4.4	185
23	Super and massive AGB stars â€“ III. Nucleosynthesis in metal-poor and very metal-poor stars â€“ $Z = 0.001$ and 0.0001 . <i>Monthly Notices of the Royal Astronomical Society</i> , 2014, 441, 582-598.	4.4	91
24	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
25	LITHIUM ABUNDANCES IN GLOBULAR CLUSTER GIANTS: NGC 6218 (M12) AND NGC 5904 (M5). <i>Astrophysical Journal</i> , 2014, 791, 39.	4.5	24
26	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
27	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
28	Super and massive AGB stars â€“ II. Nucleosynthesis and yields â€“ $Z = 0.02, 0.008$ and 0.004 . <i>Monthly Notices of the Royal Astronomical Society</i> , 2013, 437, 195-214.	4.4	133
29	Sodium content as a predictor of the advanced evolution of globular cluster stars. <i>Nature</i> , 2013, 498, 198-200.	27.8	69
30	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
31	Three-dimensional modelling of proton ingestion episodes in low-mass stars. , 2012, , .		0
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	THE ROLE OF THERMOHALINE MIXING IN INTERMEDIATE- AND LOW-METALLICITY GLOBULAR CLUSTERS. <i>Astrophysical Journal</i> , 2012, 749, 128.	4.5	47
34	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
35	COMMISSION 35: STELLAR CONSTITUTION. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 161-189.	0.0	0
36	WORKING GROUP on ABUNDANCES IN RED-GIANTS. <i>Proceedings of the International Astronomical Union</i> , 2011, 7, 196-198.	0.0	0

#	ARTICLE	IF	CITATIONS
37	THREE-DIMENSIONAL HYDRODYNAMICAL SIMULATIONS OF A PROTON INGESTION EPISODE IN A LOW-METALLICITY ASYMPTOTIC GIANT BRANCH STAR. <i>Astrophysical Journal</i> , 2011, 742, 121.	4.5	78
38	A LARGE C+N+O ABUNDANCE SPREAD IN GIANT STARS OF THE GLOBULAR CLUSTER NGC 1851. <i>Astrophysical Journal</i> , 2009, 695, L62-L66.	4.5	108
39	BLUE STRAGGLERS AFTER THE MAIN SEQUENCE. <i>Astrophysical Journal</i> , 2009, 692, 1411-1420.	4.5	64
40	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
41	The Origin of Elements Heavier than Iron: in Honour of the 70th Birthday of Roberto Gallino. <i>Publications of the Astronomical Society of Australia</i> , 2009, 26, i-ii.	3.4	0
42	Why Do Low-Mass Stars Become Red Giants?. <i>Publications of the Astronomical Society of Australia</i> , 2009, 26, 203-208.	3.4	19
43	Lithium production by thermohaline mixing in low-mass, low-metallicity asymptotic giant branch stars. <i>Proceedings of the International Astronomical Union</i> , 2009, 5, 405-410.	0.0	0
44	COMMISSION 35: STELLAR CONSTITUTION. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 211-221.	0.0	0
45	DIVISION IV / WORKING GROUP ABUNDANCES IN RED-GIANTS. <i>Proceedings of the International Astronomical Union</i> , 2008, 4, 240-241.	0.0	0
46	Fifty Years of Nuclear Astrophysics: A Foreword. <i>Publications of the Astronomical Society of Australia</i> , 2008, 25, i-i.	3.4	0
47	Compulsory Deep Mixing of ^3He and CNO Isotopes in the Envelopes of Low-Mass Red Giants. <i>Astrophysical Journal</i> , 2008, 677, 581-592.	4.5	111
48	Compulsory Deep Mixing of ^3He and CNO Isotopes on the First Giant Branch. , 2007, , .		0
49	Stellar Models and Yields of Asymptotic Giant Branch Stars. <i>Publications of the Astronomical Society of Australia</i> , 2007, 24, 103-117.	3.4	256
50	DIVISION IV / WG: ABUNDANCES IN RED GIANTS. <i>Proceedings of the International Astronomical Union</i> , 2007, 3, 150-150.	0.0	0
51	Single Star Progenitors for Type Ia Supernovae. , 2007, , .		0
52	Division IV Working Group: Abundances In Red Giants (Groupe Be Travail Sur Les Abondances Dans Les) Tj ETQq0 0,0rgBT /Oylock 10	0.0	0
53	Deep Mixing of ^3He : Reconciling Big Bang and Stellar Nucleosynthesis. <i>Science</i> , 2006, 314, 1580-1583.	12.6	181
54	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

#	ARTICLE	IF	CITATIONS
55	Joint Discussion 11 Pre-solar grains as astrophysical tools. Proceedings of the International Astronomical Union, 2006, 2, 339-340.	0.0	0
56	Three-dimensional Numerical Experimentation on the Core Helium Flash of Low-Mass Red Giants. Astrophysical Journal, 2006, 639, 405-415.	4.5	72
57	Silicon and Carbon Isotopic Ratios in AGB Stars: Si/C Grain Data, Models, and the Galactic Evolution of the Si Isotopes. Astrophysical Journal, 2006, 650, 350-373.	4.5	125
58	Nucleosynthesis in Binary Stars. Science, 2006, 311, 345-346.	12.6	0
59	Nuclear reaction rate uncertainties and astrophysical modeling: Carbon yields from low-mass giants. Physical Review C, 2006, 73, .	2.9	48
60	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
61	Reaction Rate Uncertainties and the Production of ^{19}F in Asymptotic Giant Branch Stars. Astrophysical Journal, 2004, 615, 934-946.	4.5	174
62	On the origin of fluorine in the Milky Way. Monthly Notices of the Royal Astronomical Society, 2004, 354, 575-580.	4.4	70
63	Evolution, Nucleosynthesis, and Pulsation of AGB Stars. Astronomy and Astrophysics Library, 2004, , 23-104.	0.1	25
64	The Sixth Torino Workshop. Publications of the Astronomical Society of Australia, 2003, 20, vi-vi.	3.4	1
65	s -Process Nucleosynthesis in Asymptotic Giant Branch Stars: A Test for Stellar Evolution. Astrophysical Journal, 2003, 586, 1305-1319.	4.5	162
66	Nucleosynthesis in AGB Stars: the Role of Dredge-Up and Hot Bottom Burning. Symposium - International Astronomical Union, 2003, 209, 73-81.	0.1	4
67	Structure, Evolution, and Nucleosynthesis of Primordial Stars. Astrophysical Journal, 2002, 570, 329-343.	4.5	118
68	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
69	Galactic Chemical Evolution of Lithium: Interplay between Stellar Sources. Astrophysical Journal, 2001, 559, 909-924.	4.5	70
70	Eccentricities of the Barium Stars. Astrophysics and Space Science Library, 2001, , 117-124.	2.7	0
71	The eccentricities of the barium stars. Monthly Notices of the Royal Astronomical Society, 2000, 316, 689-698.	4.4	35
72	What Theorists Think They Know about AGB Stars. Symposium - International Astronomical Union, 2000, 177, 7-9.	0.1	0

#	ARTICLE	IF	CITATIONS
73	Nucleosynthesis in Intermediate-Mass Stars. Symposium - International Astronomical Union, 2000, 177, 449-458.	0.1	3
74	How Binary Stars affect Galactic Chemical Evolution. Symposium - International Astronomical Union, 1999, 191, 447-452.	0.1	1
75	Nucleosynthesis in AGB Stars. Symposium - International Astronomical Union, 1999, 191, 31-40.	0.1	23
76	Energy generation in convective shells of low-mass, low-metallicity asymptotic giant branch stars. Astrophysical Journal, 1993, 409, 762.	4.5	6
77	The Formation of Red Giants. Publications of the Astronomical Society of Australia, 1992, 10, 125-127.	3.4	3
78	<i>s</i> -Process Nucleosynthesis on the Asymptotic Giant Branch. Publications of the Astronomical Society of Australia, 1992, 10, 99-103.	3.4	2
79	Hot Bottom Burning in a 5 M_{\odot} Model. Publications of the Astronomical Society of Australia, 1992, 10, 120-121.	3.4	19
80	Numerical Modelling of Star Formation in GMCs. Publications of the Astronomical Society of Australia, 1992, 10, 122-124.	3.4	0
81	A hydrodynamical model for the fragmentation of the W49A star-forming region. Symposium - International Astronomical Union, 1991, 147, 449-450.	0.1	0
82	A hydrodynamical study of fragmenting gas clouds. Symposium - International Astronomical Union, 1991, 147, 464-465.	0.1	1
83	A hydrodynamical study of fragmenting gas clouds. Symposium - International Astronomical Union, 1991, 147, 464-465.	0.1	0
84	A hydrodynamical model for the fragmentation of the W49A star-forming region. Symposium - International Astronomical Union, 1991, 147, 449-450.	0.1	0
85	A simulation of the collapse and fragmentation of cooling molecular clouds. Astrophysical Journal, 1991, 375, 177.	4.5	63
86	Gravitational fragmentation - A comparison with W49A. Astrophysical Journal, 1991, 383, 639.	4.5	14
87	Stellar evolutionary models from the zero-age main sequence to the first thermal pulse. Astrophysical Journal, Supplement Series, 1991, 76, 215.	7.7	28
88	Hydrodynamical Simulations of Collisions between Interstellar Clouds. Annals of the New York Academy of Sciences, 1990, 617, 158-177.	3.8	0
89	Evolution and Mixing on the Agb. International Astronomical Union Colloquium, 1989, 106, 161-175.	0.1	2
90	Photofission production of technetium and synthetic asymptotic giant branch evolution. Astrophysical Journal, 1989, 347, 989.	4.5	12

#	ARTICLE	IF	CITATIONS
91	Carbon dredge-up in low-mass stars and solar metallicity stars. <i>Astrophysical Journal</i> , 1989, 344, L25.	4.5	43
92	Collisions between rotating interstellar clouds. <i>Monthly Notices of the Royal Astronomical Society</i> , 1988, 232, 565-614.	4.4	22
93	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
94	The asymptotic giant branch evolution of 1.0-3.0 solar mass stars as a function of mass and composition. <i>Astrophysical Journal</i> , 1986, 311, 708.	4.5	134
95	Grain sedimentation and main sequence evolution. <i>Symposium - International Astronomical Union</i> , 1984, 105, 109-112.	0.1	0
96	The effect of grain sedimentation on stellar evolution. <i>Monthly Notices of the Royal Astronomical Society</i> , 1984, 207, 309-322.	4.4	2
97	The Dawes Review 2: Nucleosynthesis and Stellar Yields of Low- and Intermediate-Mass Single Stars. <i>Publications of the Astronomical Society of Australia</i> , 0, 31, .	3.4	498