

R J Farmer

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

5,285
citations

430442

18
h-index

676716

22
g-index

22
all docs

22
docs citations

22
times ranked

3557
citing authors

#	ARTICLE	IF	CITATIONS
1	MODULES FOR EXPERIMENTS IN STELLAR ASTROPHYSICS (MESA): BINARIES, PULSATIONS, AND EXPLOSIONS. <i>Astrophysical Journal, Supplement Series</i> , 2015, 220, 15.	3.0	1,990
2	Modules for Experiments in Stellar Astrophysics ($\{M\}\{E\}\{S\}\{A\}$): Convective Boundaries, Element Diffusion, and Massive Star Explosions. <i>Astrophysical Journal, Supplement Series</i> , 2018, 234, 34.	3.0	1,182
3	Modules for Experiments in Stellar Astrophysics (MESA): Pulsating Variable Stars, Rotation, Convective Boundaries, and Energy Conservation. <i>Astrophysical Journal, Supplement Series</i> , 2019, 243, 10.	3.0	860
4	Mind the Gap: The Location of the Lower Edge of the Pair-instability Supernova Black Hole Mass Gap. <i>Astrophysical Journal</i> , 2019, 887, 53.	1.6	209
5	Pulsational Pair-instability Supernovae in Very Close Binaries. <i>Astrophysical Journal</i> , 2019, 882, 36.	1.6	141
6	Massive runaway and walkaway stars. <i>Astronomy and Astrophysics</i> , 2019, 624, A66.	2.1	131
7	Constraints from Gravitational-wave Detections of Binary Black Hole Mergers on the $\langle \sup{12} \rangle \langle \sup{16} \rangle \langle \sup{O} \rangle$ Rate. <i>Astrophysical Journal Letters</i> , 2020, 902, L36.	3.0	122
8	ON VARIATIONS OF PRE-SUPERNOVA MODEL PROPERTIES. <i>Astrophysical Journal, Supplement Series</i> , 2016, 227, 22.	3.0	92
9	Polluting the Pair-instability Mass Gap for Binary Black Holes through Super-Eddington Accretion in Isolated Binaries. <i>Astrophysical Journal</i> , 2020, 897, 100.	1.6	77
10	The expansion of stripped-envelope stars: Consequences for supernovae and gravitational-wave progenitors. <i>Astronomy and Astrophysics</i> , 2020, 637, A6.	2.1	76
11	Different to the core: The pre-supernova structures of massive single and binary-stripped stars. <i>Astronomy and Astrophysics</i> , 2021, 656, A58.	2.1	62
12	Sensitivity of the lower edge of the pair-instability black hole mass gap to the treatment of time-dependent convection. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 493, 4333-4341.	1.6	60
13	ON CARBON BURNING IN SUPER ASYMPTOTIC GIANT BRANCH STARS. <i>Astrophysical Journal</i> , 2015, 807, 184.	1.6	59
14	Predictions for the hydrogen-free ejecta of pulsational pair-instability supernovae. <i>Astronomy and Astrophysics</i> , 2020, 640, A56.	2.1	51
15	PROPERTIES OF CARBON-OXYGEN WHITE DWARFS FROM MONTE CARLO STELLAR MODELS. <i>Astrophysical Journal</i> , 2016, 823, 46.	1.6	38
16	The Impact of Nuclear Reaction Rate Uncertainties on the Evolution of Core-collapse Supernova Progenitors. <i>Astrophysical Journal, Supplement Series</i> , 2018, 234, 19.	3.0	38
17	Neutrinos from Beta Processes in a Presupernova: Probing the Isotopic Evolution of a Massive Star. <i>Astrophysical Journal</i> , 2017, 851, 6.	1.6	32
18	Presupernova Neutrinos: Realistic Emissivities from Stellar Evolution. <i>Astrophysical Journal</i> , 2017, 840, 2.	1.6	29

#	ARTICLE	IF	CITATIONS
19	On Stellar Evolution in a Neutrino Hertzsprung–Russell Diagram. <i>Astrophysical Journal</i> , 2020, 893, 133.	1.6	15
20	The Cosmic Carbon Footprint of Massive Stars Stripped in Binary Systems. <i>Astrophysical Journal</i> , 2021, 923, 214.	1.6	13
21	Pair-instability Mass Loss for Top-down Compact Object Mass Calculations. <i>Research Notes of the AAS</i> , 2022, 6, 25.	0.3	5
22	Laminar Flame Speeds in Degenerate Oxygen–Neon Mixtures. <i>Astrophysical Journal</i> , 2020, 891, 5.	1.6	3