Josiah Schwab

List of Publications by Year
in descending order

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37 papers	5,307 citations	279487 23 h-index	288905 40 g-index
40 all docs	40 docs citations	40 times ranked	3673 citing authors

#	Article	IF	Citations
1	MODULES FOR EXPERIMENTS IN STELLAR ASTROPHYSICS (MESA): BINARIES, PULSATIONS, AND EXPLOSIONS. Astrophysical Journal, Supplement Series, 2015, 220, 15.	3.0	1,990
2	Modules for Experiments in Stellar Astrophysics (${mathtt{M}}{mathtt{E}}{mathtt{S}}{mathtt{A}}$): Convective Boundaries, Element Diffusion, and Massive Star Explosions. Astrophysical Journal, Supplement Series, 2018, 234, 34.	3.0	1,182
3	Modules for Experiments in Stellar Astrophysics (MESA): Pulsating Variable Stars, Rotation, Convective Boundaries, and Energy Conservation. Astrophysical Journal, Supplement Series, 2019, 243, 10.	3.0	860
4	Three Hypervelocity White Dwarfs in Gaia DR2: Evidence for Dynamically Driven Double-degenerate Double-detonation Type Ia Supernovae. Astrophysical Journal, 2018, 865, 15.	1.6	145
5	Thermal runaway during the evolution of ONeMg cores towards accretion-induced collapse. Monthly Notices of the Royal Astronomical Society, 2015, 453, 1910-1927.	1.6	84
6	The viscous evolution of white dwarf merger remnants. Monthly Notices of the Royal Astronomical Society, 2012, 427, 190-203.	1.6	82
7	The evolution and fate of super-Chandrasekhar mass white dwarf merger remnants. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3461-3475.	1.6	81
8	The interplay of disc wind and dynamical ejecta in the aftermath of neutron starâ€“black hole mergers. Monthly Notices of the Royal Astronomical Society, 2015, 449, 390-402.	1.6	75
9	TYPE Ia SUPERNOVAE FROM MERGING WHITE DWARFS. II. POST-MERGER DETONATIONS. Astrophysical Journal, 2014, 788, 75.	1.6	62
10	A highly magnetized and rapidly rotating white dwarf as small as the Moon. Nature, 2021, 595, 39-42.	13.7	56
11	Evolutionary Models for the Remnant of the Merger of Two Carbon-Oxygen Core White Dwarfs. Astrophysical Journal, 2021, 906, 53.	1.6	52
12	Multi-gigayear White Dwarf Cooling Delays from Clustering-enhanced Gravitational Sedimentation. Astrophysical Journal, 2020, 902, 93.	1.6	51
13	WAIT FOR IT: POST-SUPERNOVA WINDS DRIVEN BY DELAYED RADIOACTIVE DECAYS. Astrophysical Journal, 2017, 834, 180.	1.6	50
14	CARBON SHELL OR CORE IGNITIONS IN WHITE DWARFS ACCRETING FROM HELIUM STARS. Astrophysical Journal, 2016, 821, 28.	1.6	48
15	Skye: A Differentiable Equation of State. Astrophysical Journal, 2021, 913, 72.	1.6	45
16	TURBULENT CHEMICAL DIFFUSION IN CONVECTIVELY BOUNDED CARBON FLAMES. Astrophysical Journal, 2016, 832, 71.	1.6	39
17	Updated parameter estimates for GW190425 using astrophysical arguments and implications for the electromagnetic counterpart. Monthly Notices of the Royal Astronomical Society, 2020, 494, 190-198.	1.6	37
18	The importance of Urca-process cooling in accreting ONe white dwarfs. Monthly Notices of the Royal Astronomical Society, 2017, 472, 3390-3406.	1.6	33

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19	Accretion-induced Collapse from Helium Star + White Dwarf Binaries. Astrophysical Journal, 2017, 843, 151.	1.6	32
20	Convection Destroys the Core/Mantle Structure in Hybrid C/O/Ne White Dwarfs. Astrophysical Journal Letters, 2017, 834, L9.	3.0	29
21	Evolutionary Models for R Coronae Borealis Stars. Astrophysical Journal, 2019, 885, 27.	1.6	28
22	NEUTRONIZATION DURING CARBON SIMMERING IN TYPE IA SUPERNOVA PROGENITORS. Astrophysical Journal, 2016, 825, 57.	1.6	28
23	A Helium-flash-induced Mixing Event Can Explain the Lithium Abundances of Red Clump Stars. Astrophysical Journal Letters, 2020, 901, L18.	3.0	28
24	Hot subdwarfs formed from the merger of two He white dwarfs. Monthly Notices of the Royal Astronomical Society, 2018, 476, 5303-5311.	1.6	22
25	Detection of circumstellar helium in Type Iax progenitor systems. Monthly Notices of the Royal Astronomical Society, 2019, 487, 2538-2577.	1.6	20
26	Residual Carbon in Oxygenâ€“Neon White Dwarfs and Its Implications for Accretion-induced Collapse. Astrophysical Journal, 2019, 872, 131.	1.6	17
27	Electron Captures on as a Trigger for Helium Shell Detonations. Astrophysical Journal, 2017, 845, 97.	1.6	16
28	Exploring the Carbon Simmering Phase: Reaction Rates, Mixing, and the Convective Urca Process. Astrophysical Journal, 2017, 851, 105.	1.6	14
29	The Long-term Evolution and Appearance of Type Iax Postgenitor Stars. Astrophysical Journal, 2019, 872, 29.	1.6	14
30	On the Impact of ²²Ne on the Pulsation Periods of Carbonâ€“Oxygen White Dwarfs with Helium-dominated Atmospheres. Astrophysical Journal, 2021, 910, 24.	1.6	14
31	Fast and Luminous Transients from the Explosions of Long-lived Massive White Dwarf Merger Remnants. Astrophysical Journal, 2017, 850, 127.	1.6	13
32	Evolution of Helium Starâ€“White Dwarf Binaries Leading up to Thermonuclear Supernovae. Astrophysical Journal, 2019, 878, 100.	1.6	11
33	Mixing via Thermocompositional Convection in Hybrid C/O/Ne White Dwarfs. Astrophysical Journal, 2019, 876, 10.	1.6	8
34	Cooling Models for the Most Massive White Dwarfs. Astrophysical Journal, 2021, 916, 119.	1.6	8
35	The Final Fates of Close Hot Subdwarfâ€“White Dwarf Binaries: Mergers Involving He/C/O White Dwarfs and the Formation of Unusual Giant Stars with C/O-Dominated Envelopes. Astrophysical Journal, 2021, 920, 110.	1.6	5
36	Pre-explosion Properties of Helium Star Donors to Thermonuclear Supernovae. Astrophysical Journal, 2021, 922, 241.	1.6	4

#	Article	IF	Citations
37	Laminar Flame Speeds in Degenerate Oxygenâ€“Neon Mixtures. Astrophysical Journal, 2020, 891, 5.	1.6	3