Lars Bildsten

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Discovery of a Double-detonation Thermonuclear Supernova Progenitor. Astrophysical Journal Letters, 2022, 925, L12.	8.3	20
2	Stochastic Low-frequency Variability in Three-dimensional Radiation Hydrodynamical Models of Massive Star Envelopes. Astrophysical Journal Letters, 2022, 924, L11.	8.3	14
3	Still Brighter than Pre-explosion, SN 2012Z Did Not Disappear: Comparing Hubble Space Telescope Observations a Decade Apart. Astrophysical Journal, 2022, 925, 138.	4.5	17
4	Numerical Simulations of Convective Three-dimensional Red Supergiant Envelopes. Astrophysical Journal, 2022, 929, 156.	4.5	31
5	Shock Breakout in Three-dimensional Red Supergiant Envelopes. Astrophysical Journal, 2022, 933, 164.	4.5	13
6	Year 1 of the ZTF high-cadence Galactic plane survey: strategy, goals, and early results on new single-mode hot subdwarf B-star pulsators. Monthly Notices of the Royal Astronomical Society, 2021, 505, 1254-1267.	4.4	27
7	Mass Transfer and Stellar Evolution of the White Dwarfs in AM CVn Binaries. Astrophysical Journal, 2021, 923, 125.	4.5	18
8	The First Ultracompact Roche Lobe–Filling Hot Subdwarf Binary. Astrophysical Journal, 2020, 891, 45.	4.5	47
9	The Value of Progenitor Radius Measurements for Explosion Modeling of Type II-Plateau Supernovae. Astrophysical Journal Letters, 2020, 895, L45.	8.3	26
10	A Massive Star's Dying Breaths: Pulsating Red Supergiants and Their Resulting Type IIP Supernovae. Astrophysical Journal, 2020, 891, 15.	4.5	9
11	Variability of Massive Stars in M31 from the Palomar Transient Factory. Astrophysical Journal, 2020, 893, 11.	4.5	8
12	Convectively Driven 3D Turbulence in Massive Star Envelopes. I. A 1D Implementation of Diffusive Radiative Transport. Astrophysical Journal, 2020, 902, 67.	4.5	14
13	The Zwicky Transient Facility Census of the Local Universe. I. Systematic Search for Calcium-rich Gap Transients Reveals Three Related Spectroscopic Subclasses. Astrophysical Journal, 2020, 905, 58.	4.5	57
14	Multi-gigayear White Dwarf Cooling Delays from Clustering-enhanced Gravitational Sedimentation. Astrophysical Journal, 2020, 902, 93.	4.5	51
15	A New Class of Roche Lobe–filling Hot Subdwarf Binaries. Astrophysical Journal Letters, 2020, 898, L25.	8.3	33
16	Digital Infrastructure in Astrophysics. , 2020, 52, .		2
17	Inferring Explosion Properties from Type II-Plateau Supernova Light Curves. Astrophysical Journal, 2019, 879, 3.	4.5	46
18	General relativistic orbital decay in a seven-minute-orbital-period eclipsing binary system. Nature, 2019, 571, 528-531.	27.8	96

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19	Modules for Experiments in Stellar Astrophysics (MESA): Pulsating Variable Stars, Rotation, Convective Boundaries, and Energy Conservation. Astrophysical Journal, Supplement Series, 2019, 243, 10.	7.7	860
20	ZTF 18aaqeasu (SN2018byg): A Massive Helium-shell Double Detonation on a Sub-Chandrasekhar-mass White Dwarf. Astrophysical Journal Letters, 2019, 873, L18.	8.3	56
21	Remnants of Subdwarf Helium Donor Stars Ejected from Close Binaries with Thermonuclear Supernovae. Astrophysical Journal, 2019, 887, 68.	4.5	32
22	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.	7.7	1,182
23	Outbursts of luminous blue variable stars from variations in the helium opacity. Nature, 2018, 561, 498-501.	27.8	62
24	Variability of Red Supergiants in M31 from the Palomar Transient Factory. Astrophysical Journal, 2018, 859, 73.	4.5	28
25	Electron Captures on as a Trigger for Helium Shell Detonations. Astrophysical Journal, 2017, 845, 97.	4.5	16
26	Energetic eruptions leading to a peculiar hydrogen-rich explosion of a massive star. Nature, 2017, 551, 210-213.	27.8	112
27	The Effects of Magnetic Fields on the Dynamics of Radiation Pressure–dominated Massive Star Envelopes. Astrophysical Journal, 2017, 843, 68.	4.5	15
28	PTF1 J082340.04+081936.5: A Hot Subdwarf B Star with a Low-mass White Dwarf Companion in an 87-minute Orbit. Astrophysical Journal, 2017, 835, 131.	4.5	28
29	Late-time spectroscopy of Type Iax Supernovae. Monthly Notices of the Royal Astronomical Society, 2016, 461, 433-457.	4.4	52
30	A prevalence of dynamo-generated magnetic fields in the cores of intermediate-mass stars. Nature, 2016, 529, 364-367.	27.8	101
31	MODULES FOR EXPERIMENTS IN STELLAR ASTROPHYSICS (MESA): BINARIES, PULSATIONS, AND EXPLOSIONS. Astrophysical Journal, Supplement Series, 2015, 220, 15.	7.7	1,990
32	LOCAL RADIATION HYDRODYNAMIC SIMULATIONS OF MASSIVE STAR ENVELOPES AT THE IRON OPACITY PEAK. Astrophysical Journal, 2015, 813, 74.	4.5	108
33	Asteroseismology can reveal strong internal magnetic fields in red giant stars. Science, 2015, 350, 423-426.	12.6	119
34	AM CANUM VENATICORUM PROGENITORS WITH HELIUM STAR DONORS AND THE RESULTANT EXPLOSIONS. Astrophysical Journal, 2015, 807, 74.	4.5	38
35	X-ray diagnostics of chemical composition of the accretion disc and donor star in UCXBs – II. XMM–Newton observations. Monthly Notices of the Royal Astronomical Society, 2014, 442, 2817-2825.	4.4	7
36	POSSIBLE DETECTION OF THE STELLAR DONOR OR REMNANT FOR THE TYPE lax SUPERNOVA 2008ha. Astrophysical Journal, 2014, 792, 29.	4.5	60

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37	THE IGNITION OF CARBON DETONATIONS VIA CONVERGING SHOCK WAVES IN WHITE DWARFS. Astrophysical Journal, 2014, 785, 61.	4.5	103
38	A luminous, blue progenitor system for the type lax supernova 2012Z. Nature, 2014, 512, 54-56.	27.8	136
39	MODULES FOR EXPERIMENTS IN STELLAR ASTROPHYSICS (MESA): PLANETS, OSCILLATIONS, ROTATION, AND MASSIVE STARS. Astrophysical Journal, Supplement Series, 2013, 208, 4.	7.7	2,251
40	The observational signatures of convectively excited gravity modes in main-sequence stars. Monthly Notices of the Royal Astronomical Society, 2013, 430, 1736-1745.	4.4	57
41	ORBITAL EVOLUTION OF COMPACT WHITE DWARF BINARIES. Astrophysical Journal, 2012, 758, 64.	4.5	43
42	Workshop on Faint and Fast Transients. Proceedings of the International Astronomical Union, 2011, 7, 269-269.	0.0	0
43	Explosions on a Variety of Scales. Proceedings of the International Astronomical Union, 2011, 7, 71-71.	0.0	0
44	MODULES FOR EXPERIMENTS IN STELLAR ASTROPHYSICS (MESA). Astrophysical Journal, Supplement Series, 2011, 192, 3.	7.7	2,880
45	UNSTABLE HELIUM SHELL BURNING ON ACCRETING WHITE DWARFS. Astrophysical Journal, 2009, 699, 1365-1373.	4.5	128
46	Exploring the Optical Transient Sky with the Palomar Transient Factory. Publications of the Astronomical Society of the Pacific, 2009, 121, 1334-1351.	3.1	618
47	The Palomar Transient Factory: System Overview, Performance, and First Results. Publications of the Astronomical Society of the Pacific, 2009, 121, 1395-1408.	3.1	900
48	Accreting, Mixing, and X-ray Bursting. AIP Conference Proceedings, 2008, , .	0.4	0
49	Faint Thermonuclear Supernovae from AM Canum Venaticorum Binaries. Astrophysical Journal, 2007, 662, L95-L98.	4.5	310
50	Thermal Structure and Radius Evolution of Irradiated Gas Giant Planets. Astrophysical Journal, 2006, 650, 394-407.	4.5	76
51	The Thermal State of the Accreting White Dwarf in AM Canum Venaticorum Binaries. Astrophysical Journal, 2006, 640, 466-473.	4.5	60
52	Physical Interpretation of Dwarf Nova Primary Effective Temperatures. International Astronomical Union Colloquium, 2004, 194, 192-193.	0.1	1
53	Spreading of Accreted Material on White Dwarfs. Astrophysical Journal, 2004, 610, 977-990.	4.5	48
54	Theoretical Modeling of the Thermal State of Accreting White Dwarfs Undergoing Classical Nova Cycles. Astrophysical Journal, 2004, 600, 390-403.	4.5	121

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#	Article	IF	CITATIONS
55	White Dwarf Donors in Ultracompact Binaries: The Stellar Structure of Finiteâ€Entropy Objects. Astrophysical Journal, 2003, 598, 1217-1228.	4.5	133
56	Viscous dissipation for Eulerâ \in ^M s disk. Physical Review E, 2002, 66, 056309.	2.1	17
57	Deformations of accreting neutron star crusts and gravitational wave emission. Monthly Notices of the Royal Astronomical Society, 2002, 319, 902-932.	4.4	267
58	The Planet around 51 Pegasi. Astrophysical Journal, 1997, 481, 926-935.	4.5	175