## Lars Bildsten

## List of Publications by Year in descending order

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		117625	155660
58	13,722	34	55
papers	citations	h-index	g-index
60	60	60	6455
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	MODULES FOR EXPERIMENTS IN STELLAR ASTROPHYSICS (MESA). Astrophysical Journal, Supplement Series, 2011, 192, 3.	7.7	2,880
2	MODULES FOR EXPERIMENTS IN STELLAR ASTROPHYSICS (MESA): PLANETS, OSCILLATIONS, ROTATION, AND MASSIVE STARS. Astrophysical Journal, Supplement Series, 2013, 208, 4.	7.7	2,251
3	MODULES FOR EXPERIMENTS IN STELLAR ASTROPHYSICS (MESA): BINARIES, PULSATIONS, AND EXPLOSIONS. Astrophysical Journal, Supplement Series, 2015, 220, 15.	7.7	1,990
4	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
5	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
6	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
7	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
8	Faint Thermonuclear Supernovae from AM Canum Venaticorum Binaries. Astrophysical Journal, 2007, 662, L95-L98.	4.5	310
9	Deformations of accreting neutron star crusts and gravitational wave emission. Monthly Notices of the Royal Astronomical Society, 2002, 319, 902-932.	4.4	267
10	The Planet around 51 Pegasi. Astrophysical Journal, 1997, 481, 926-935.	4.5	175
11	A luminous, blue progenitor system for the type lax supernova 2012Z. Nature, 2014, 512, 54-56.	27.8	136
12			
	White Dwarf Donors in Ultracompact Binaries: The Stellar Structure of Finiteâ€Entropy Objects. Astrophysical Journal, 2003, 598, 1217-1228.	4.5	133
13		4.5	133
13 14	Astrophysical Journal, 2003, 598, 1217-1228.  UNSTABLE HELIUM SHELL BURNING ON ACCRETING WHITE DWARFS. Astrophysical Journal, 2009, 699,		
	Astrophysical Journal, 2003, 598, 1217-1228.  UNSTABLE HELIUM SHELL BURNING ON ACCRETING WHITE DWARFS. Astrophysical Journal, 2009, 699, 1365-1373.  Theoretical Modeling of the Thermal State of Accreting White Dwarfs Undergoing Classical Nova	4.5	128
14	Astrophysical Journal, 2003, 598, 1217-1228.  UNSTABLE HELIUM SHELL BURNING ON ACCRETING WHITE DWARFS. Astrophysical Journal, 2009, 699, 1365-1373.  Theoretical Modeling of the Thermal State of Accreting White Dwarfs Undergoing Classical Nova Cycles. Astrophysical Journal, 2004, 600, 390-403.  Asteroseismology can reveal strong internal magnetic fields in red giant stars. Science, 2015, 350,	4.5	128
14 15	Astrophysical Journal, 2003, 598, 1217-1228.  UNSTABLE HELIUM SHELL BURNING ON ACCRETING WHITE DWARFS. Astrophysical Journal, 2009, 699, 1365-1373.  Theoretical Modeling of the Thermal State of Accreting White Dwarfs Undergoing Classical Nova Cycles. Astrophysical Journal, 2004, 600, 390-403.  Asteroseismology can reveal strong internal magnetic fields in red giant stars. Science, 2015, 350, 423-426.  Energetic eruptions leading to a peculiar hydrogen-rich explosion of a massive star. Nature, 2017, 551,	4.5 4.5 12.6	128 121 119

#	Article	IF	Citations
19	A prevalence of dynamo-generated magnetic fields in the cores of intermediate-mass stars. Nature, 2016, 529, 364-367.	27.8	101
20	General relativistic orbital decay in a seven-minute-orbital-period eclipsing binary system. Nature, 2019, 571, 528-531.	27.8	96
21	Thermal Structure and Radius Evolution of Irradiated Gas Giant Planets. Astrophysical Journal, 2006, 650, 394-407.	4.5	76
22	Outbursts of luminous blue variable stars from variations in the helium opacity. Nature, 2018, 561, 498-501.	27.8	62
23	POSSIBLE DETECTION OF THE STELLAR DONOR OR REMNANT FOR THE TYPE lax SUPERNOVA 2008ha. Astrophysical Journal, 2014, 792, 29.	4.5	60
24	The Thermal State of the Accreting White Dwarf in AM Canum Venaticorum Binaries. Astrophysical Journal, 2006, 640, 466-473.	4.5	60
25	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
26	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
27	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
28	Late-time spectroscopy of Type lax Supernovae. Monthly Notices of the Royal Astronomical Society, 2016, 461, 433-457.	4.4	52
29	Multi-gigayear White Dwarf Cooling Delays from Clustering-enhanced Gravitational Sedimentation. Astrophysical Journal, 2020, 902, 93.	4.5	51
30	Spreading of Accreted Material on White Dwarfs. Astrophysical Journal, 2004, 610, 977-990.	4.5	48
31	The First Ultracompact Roche Lobe–Filling Hot Subdwarf Binary. Astrophysical Journal, 2020, 891, 45.	4.5	47
32	Inferring Explosion Properties from Type II-Plateau Supernova Light Curves. Astrophysical Journal, 2019, 879, 3.	4.5	46
33	ORBITAL EVOLUTION OF COMPACT WHITE DWARF BINARIES. Astrophysical Journal, 2012, 758, 64.	<b>4.</b> 5	43
34	AM CANUM VENATICORUM PROGENITORS WITH HELIUM STAR DONORS AND THE RESULTANT EXPLOSIONS. Astrophysical Journal, 2015, 807, 74.	4.5	38
35	A New Class of Roche Lobe–filling Hot Subdwarf Binaries. Astrophysical Journal Letters, 2020, 898, L25.	8.3	33
36	Remnants of Subdwarf Helium Donor Stars Ejected from Close Binaries with Thermonuclear Supernovae. Astrophysical Journal, 2019, 887, 68.	4.5	32

#	Article	IF	CITATIONS
37	Numerical Simulations of Convective Three-dimensional Red Supergiant Envelopes. Astrophysical Journal, 2022, 929, 156.	4.5	31
38	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
39	Variability of Red Supergiants in M31 from the Palomar Transient Factory. Astrophysical Journal, 2018, 859, 73.	4.5	28
40	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
41	The Value of Progenitor Radius Measurements for Explosion Modeling of Type II-Plateau Supernovae. Astrophysical Journal Letters, 2020, 895, L45.	8.3	26
42	Discovery of a Double-detonation Thermonuclear Supernova Progenitor. Astrophysical Journal Letters, 2022, 925, L12.	8.3	20
43	Mass Transfer and Stellar Evolution of the White Dwarfs in AM CVn Binaries. Astrophysical Journal, 2021, 923, 125.	4.5	18
44	Viscous dissipation for Euler's disk. Physical Review E, 2002, 66, 056309.	2.1	17
45	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
46	Electron Captures on as a Trigger for Helium Shell Detonations. Astrophysical Journal, 2017, 845, 97.	4.5	16
47	The Effects of Magnetic Fields on the Dynamics of Radiation Pressure–dominated Massive Star Envelopes. Astrophysical Journal, 2017, 843, 68.	4.5	15
48	Convectively Driven 3D Turbulence in Massive Star Envelopes. I. A 1D Implementation of Diffusive Radiative Transport. Astrophysical Journal, 2020, 902, 67.	4.5	14
49	Stochastic Low-frequency Variability in Three-dimensional Radiation Hydrodynamical Models of Massive Star Envelopes. Astrophysical Journal Letters, 2022, 924, L11.	8.3	14
50	Shock Breakout in Three-dimensional Red Supergiant Envelopes. Astrophysical Journal, 2022, 933, 164.	4.5	13
51	A Massive Star's Dying Breaths: Pulsating Red Supergiants and Their Resulting Type IIP Supernovae. Astrophysical Journal, 2020, 891, 15.	4.5	9
52	Variability of Massive Stars in M31 from the Palomar Transient Factory. Astrophysical Journal, 2020, 893, 11.	4.5	8
53	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
54	Digital Infrastructure in Astrophysics. , 2020, 52, .		2

#	Article	IF	CITATIONS
55	Physical Interpretation of Dwarf Nova Primary Effective Temperatures. International Astronomical Union Colloquium, 2004, 194, 192-193.	0.1	1
56	Accreting, Mixing, and X-ray Bursting. AIP Conference Proceedings, 2008, , .	0.4	0
57	Workshop on Faint and Fast Transients. Proceedings of the International Astronomical Union, 2011, 7, 269-269.	0.0	0
58	Explosions on a Variety of Scales. Proceedings of the International Astronomical Union, 2011, 7, 71-71.	0.0	0