

Alexander Heger

List of Publications by Year in descending order

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Version: 2024-02-01

229
papers

22,430
citations

16411

64
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147
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236
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236
docs citations

236
times ranked

9092
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulated NiCu Cycles with the New $^{57}\text{Cu}(p, \hat{i}^3)$ ^{58}Zn Reaction Rate and the Influence on Type-I X-Ray Bursts: GS 1826â€“24 Clocked Burster. EPJ Web of Conferences, 2022, 260, 11023.	0.1	1
2	Sensitivity Study of Nuclear Reactions Influencing Photospheric Radius Expansion X-Ray Bursts. EPJ Web of Conferences, 2022, 260, 11028.	0.1	0
3	First measurement of $^{25}\text{Al}+p$ resonant scattering relevant to the astrophysical reaction $^{22}\text{Mg}(\hat{i}^{\pm}, p)^{25}\text{Al}$. EPJ Web of Conferences, 2022, 260, 05001.	0.1	0
4	Experimental studies on astrophysical reactions at the low-energy RI beam separator CRIB. EPJ Web of Conferences, 2022, 260, 03003.	0.1	0
5	Impact of the New $^{65}\text{As}(p, \hat{i}^3)^{66}\text{Se}$ Reaction Rate on the Two-proton Sequential Capture of ^{64}Ge , Weak GeAs Cycles, and Type I X-Ray Bursts Such as the Clocked Burster GS 1826â€“24. Astrophysical Journal, 2022, 929, 72.	1.6	8
6	The Regulated NiCu Cycles with the New $^{57}\text{Cu}(p, \hat{i}^3)^{58}\text{Zn}$ Reaction Rate and Its Influence on Type I X-Ray Bursts: the GS 1826â€“24 Clocked Burster. Astrophysical Journal, 2022, 929, 73.	1.6	4
7	Long-term Evolution of Postexplosion Helium-star Companions of Type Iax Supernovae. Astrophysical Journal, 2022, 933, 65.	1.6	4
8	On the origin of nitrogen at low metallicity. Monthly Notices of the Royal Astronomical Society, 2021, 502, 4359-4376.	1.6	11
9	The final core collapse of pulsational pair instability supernovae. Monthly Notices of the Royal Astronomical Society, 2021, 503, 2108-2122.	1.6	24
10	New Fe59 Stellar Decay Rate with Implications for the Fe60 Radioactivity in Massive Stars. Physical Review Letters, 2021, 126, 152701.	2.9	4
11	The Pair-instability Mass Gap for Black Holes. Astrophysical Journal Letters, 2021, 912, L31.	3.0	90
12	Self-consistent 3D Supernova Models From $\hat{a}^{\sim}7$ Minutes to +7 s: A 1-bethe Explosion of a $\hat{a}^{\sim}19$ M \hat{a}^{TM} Progenitor. Astrophysical Journal, 2021, 915, 28.	1.6	97
13	Supernova 1987A: 3D Mixing and Light Curves for Explosion Models Based on Binary-merger Progenitors. Astrophysical Journal, 2021, 914, 4.	1.6	18
14	X-ray burst ignition location on the surface of accreting X-ray pulsars: can bursts preferentially ignite at the hotspot?. Monthly Notices of the Royal Astronomical Society, 2021, 505, 5530-5542.	1.6	3
15	On the Evolution of Supermassive Primordial Stars in Cosmological Flows. Astrophysical Journal, 2021, 915, 110.	1.6	16
16	Observational signatures of the surviving donor star in the double-detonation model of Type Ia supernovae. Astronomy and Astrophysics, 2021, 654, A103.	2.1	20
17	The chemical signature of jet-driven hypernovae. Monthly Notices of the Royal Astronomical Society, 2021, 501, 2764-2781.	1.6	24
18	Advancement of Photospheric Radius Expansion and Clocked Type-I X-Ray Burst Models with the New $^{22}\text{Mg}(\hat{i}^{\pm}, p)^{25}\text{Al}$ Reaction Rate. Astrophysical Journal, 2022, 929, 72.		

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19	The radioactive nuclei and in the Cosmos and in the solar system. Publications of the Astronomical Society of Australia, 2021, 38, .	1.3	25
20	Three-dimensional models of core-collapse supernovae from low-mass progenitors with implications for Crab. Monthly Notices of the Royal Astronomical Society, 2020, 496, 2039-2084.	1.6	78
21	A minimum dilution scenario for supernovae and consequences for extremely metal-poor stars. Monthly Notices of the Royal Astronomical Society, 2020, 498, 3703-3712.	1.6	25
22	On monolithic supermassive stars. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2236-2243.	1.6	18
23	Helium and nitrogen enrichment in massive main-sequence stars: mechanisms and implications for the origin of WNL stars. Monthly Notices of the Royal Astronomical Society, 2020, 494, 3861-3879.	1.6	11
24	The impact of fallback on the compact remnants and chemical yields of core-collapse supernovae. Monthly Notices of the Royal Astronomical Society, 2020, 495, 3751-3762.	1.6	45
25	Properties of gamma-ray decay lines in 3D core-collapse supernova models, with application to SN 1987A and Cas A. Monthly Notices of the Royal Astronomical Society, 2020, 494, 2471-2497.	1.6	21
26	The efficiency of nuclear burning during thermonuclear (Type I) bursts as a function of accretion rate. Monthly Notices of the Royal Astronomical Society, 2020, 499, 2148-2156.	1.6	6
27	Multi-epoch X-ray burst modelling: MCMC with large grids of 1D simulations. Monthly Notices of the Royal Astronomical Society, 2020, 494, 4576-4589.	1.6	20
28	The chemical evolution of iron-peak elements with hypernovae. Monthly Notices of the Royal Astronomical Society, 2020, 496, 4987-5001.	1.6	6
29	Large-scale Mixing in a Violent Oxygen–Neon Shell Merger Prior to a Core-collapse Supernova. Astrophysical Journal, 2020, 890, 94.	1.6	44
30	The Formation of a $70 M_{\odot}$ Black Hole at High Metallicity. Astrophysical Journal, 2020, 890, 113.	1.6	48
31	Gamma-Ray Emission of ^{60}Fe and ^{26}Al Radioactivity in Our Galaxy. Astrophysical Journal, 2020, 889, 169.	1.6	41
32	Detection of millihertz quasi-periodic oscillations in the X-Ray binary 1RXS J180408.9–342058. Monthly Notices of the Royal Astronomical Society, 2020, 500, 34-39.	1.6	8
33	Titans of the early Universe: The Prato statement on the origin of the first supermassive black holes. Publications of the Astronomical Society of Australia, 2019, 36, .	1.3	114
34	Nucleosynthesis for SN 1987A from single-star and binary-merger progenitors. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 084002.	1.4	1
35	Fallback Accretion-powered Supernova Light Curves Based on a Neutrino-driven Explosion Simulation of a $40 M_{\odot}$ Star. Astrophysical Journal, 2019, 880, 21.	1.6	13
36	A Bayesian approach to matching thermonuclear X-ray burst observations with models. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2228-2240.	1.6	18

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37	X-Ray and Gamma-Ray Emission from Core-collapse Supernovae: Comparison of Three-dimensional Neutrino-driven Explosions with SN 1987A. <i>Astrophysical Journal</i> , 2019, 882, 22.	1.6	14
38	Evolving stellar models to find the origins of our galaxy. , 2019, , .		1
39	On the detection of supermassive primordial stars – II. Blue supergiants. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 488, 3995-4003.	1.6	19
40	Presupernova neutrino signals as potential probes of neutrino mass hierarchy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 796, 126-130.	1.5	13
41	Neutrino Losses in Type I Thermonuclear X-Ray Bursts: An Improved Nuclear Energy Generation Approximation. <i>Astrophysical Journal</i> , 2019, 870, 64.	1.6	19
42	The $\hat{\nu}$ -process with Fully Time-dependent Supernova Neutrino Emission Spectra. <i>Astrophysical Journal</i> , 2019, 876, 151.	1.6	31
43	Explosions of blue supergiants from binary mergers for SN 1987A. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 482, 438-452.	1.6	21
44	Three-dimensional simulations of neutrino-driven core-collapse supernovae from low-mass single and binary star progenitors. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 3307-3324.	1.6	137
45	Maximally accreting supermassive stars: a fundamental limit imposed by hydrostatic equilibrium. <i>Astronomy and Astrophysics</i> , 2019, 632, L2.	2.1	23
46	New s-process Mechanism in Rapidly Rotating Massive Population II Stars. <i>Astrophysical Journal</i> , 2019, 887, 187.	1.6	20
47	A wide star–black-hole binary system from radial-velocity measurements. <i>Nature</i> , 2019, 575, 618-621.	13.7	142
48	Observatory science with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	50
49	Accretion in strong field gravity with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	27
50	Dense matter with eXTP. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	81
51	Nucleosynthesis in the Innermost Ejecta of Neutrino-driven Supernova Explosions in Two Dimensions. <i>Astrophysical Journal</i> , 2018, 852, 40.	1.6	128
52	Role of Core-collapse Supernovae in Explaining Solar System Abundances of p Nuclides. <i>Astrophysical Journal</i> , 2018, 854, 18.	1.6	55
53	On the Rotation of Supermassive Stars. <i>Astrophysical Journal Letters</i> , 2018, 853, L3.	3.0	40
54	Black Hole Formation and Fallback during the Supernova Explosion of a $40 M_{\odot}$ Star. <i>Astrophysical Journal Letters</i> , 2018, 852, L19.	3.0	75

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55	Simulating X-ray bursts during a transient accretion event. Monthly Notices of the Royal Astronomical Society, 2018, 477, 2112-2118.	1.6	18
56	The evolution of supermassive Population III stars. Monthly Notices of the Royal Astronomical Society, 2018, 474, 2757-2773.	1.6	98
57	Black Hole Hyperaccretion Inflowâ€™Outflow Model. I. Long and Ultra-long Gamma-Ray Bursts. Astrophysical Journal, 2018, 852, 20.	1.6	38
58	A High-resolution Study of Presupernova Core Structure. Astrophysical Journal, 2018, 860, 93.	1.6	151
59	On the Detection of Supermassive Primordial Stars. Astrophysical Journal Letters, 2018, 869, L39.	3.0	23
60	Multidimensional simulations of ultrastripped supernovae to shock breakout. Monthly Notices of the Royal Astronomical Society, 2018, 479, 3675-3689.	1.6	57
61	Massive Stars and Their Supernovae. Astrophysics and Space Science Library, 2018, , 173-286.	1.0	5
62	The $\hat{1}\frac{1}{2}$ -Process in the Light of an Improved Understanding of Supernova Neutrino Spectra. Astrophysical Journal, 2018, 865, 143.	1.6	49
63	Neutrino nucleosynthesis in core-collapse Supernova explosions. Journal of Physics: Conference Series, 2018, 940, 012054.	0.3	2
64	New Neutron-capture Site in Massive Pop III and Pop II Stars as a Source for Heavy Elements in the Early Galaxy. Astrophysical Journal, 2018, 865, 120.	1.6	51
65	Parameterizing the Supernova Engine and Its Effect on Remnants and Basic Yields. Astrophysical Journal, 2018, 856, 63.	1.6	36
66	Reducing Uncertainties in the Production of the Gamma-emitting Nuclei $\langle\sup\rangle 26\langle/\sup\rangle\text{Al}$, $\langle\sup\rangle 44\langle/\sup\rangle\text{Ti}$, and $\langle\sup\rangle 60\langle/\sup\rangle\text{Fe}$ in Core-collapse Supernovae by Using Effective Helium Burning Rates. Astrophysical Journal Letters, 2017, 839, L9.	3.0	12
67	Thermonuclear Bursts with Short Recurrence Times from Neutron Stars Explained by Opacity-driven Convection. Astrophysical Journal, 2017, 842, 113.	1.6	32
68	On the Maximum Mass of Accreting Primordial Supermassive Stars. Astrophysical Journal Letters, 2017, 842, L6.	3.0	89
69	Supernova simulations from a 3D progenitor model â€™ Impact of perturbations and evolution of explosion properties. Monthly Notices of the Royal Astronomical Society, 2017, 472, 491-513.	1.6	184
70	Low-energy Population III supernovae and the origin of extremely metal-poor stars. Monthly Notices of the Royal Astronomical Society, 2017, 467, 4731-4738.	1.6	21
71	The mass distribution of Population III stars. Monthly Notices of the Royal Astronomical Society, 2017, 468, 418-425.	1.6	30
72	Fast evolving pair-instability supernova models: evolution, explosion, light curves. Monthly Notices of the Royal Astronomical Society, 2017, 464, 2854-2865.	1.6	63

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73	High-Energy Transients: Thermonuclear (Type-I) X-Ray Bursts. Proceedings of the International Astronomical Union, 2017, 14, 121-126.	0.0	0
74	Neutrino Induced Nucleosynthesis of Radioactive Nuclei in Core-Collapse Supernovae. , 2017, , .		0
75	Combined Nucleosynthetic Yields of Multiple First Stars. , 2017, , .		2
76	Production Uncertainties of p-Nuclei in the $\hat{1}^3$ -Process in Massive Stars Using a Monte Carlo Approach. , 2017, , .		0
77	THE INTERPLAY BETWEEN CHEMISTRY AND NUCLEATION IN THE FORMATION OF CARBONACEOUS DUST IN SUPERNOVA EJECTA. Astrophysical Journal, 2016, 817, 134.	1.6	21
78	First direct measurement of $^{12}\text{C}(^{12}\text{C},n)^{23}\text{Mg}$ at stellar energies. EPJ Web of Conferences, 2016, 109, 04009.	0.1	1
79	Neutrino nucleosynthesis in core-collapse Supernova explosions. EPJ Web of Conferences, 2016, 109, 06004.	0.1	5
80	Neutrino-Induced Nucleosynthesis in Helium Shells of Early Core-Collapse Supernovae. EPJ Web of Conferences, 2016, 109, 06001.	0.1	9
81	Evidence from stable isotopes and ^{10}Be for solar system formation triggered by a low-mass supernova. Nature Communications, 2016, 7, 13639.	5.8	29
82	THE LAST MINUTES OF OXYGEN SHELL BURNING IN A MASSIVE STAR. Astrophysical Journal, 2016, 833, 124.	1.6	107
83	OBSERVATIONAL CONSTRAINTS ON FIRST-STAR NUCLEOSYNTHESIS. II. SPECTROSCOPY OF AN ULTRA METAL-POOR CEMP-no STAR*. Astrophysical Journal, 2016, 833, 21.	1.6	56
84	Uncertainties in the production of p -nuclei in massive stars obtained from Monte Carlo variations. Monthly Notices of the Royal Astronomical Society, 2016, 463, 4153-4166.	1.6	53
85	DEPENDENCE OF X-RAY BURST MODELS ON NUCLEAR REACTION RATES. Astrophysical Journal, 2016, 830, 55.	1.6	115
86	Mass and metallicity requirement in stellar models for galactic chemical evolution applications. Monthly Notices of the Royal Astronomical Society, 2016, 463, 3755-3767.	1.6	26
87	NUGRID STELLAR DATA SET. I. STELLAR YIELDS FROM H TO BI FOR STARS WITH METALLICITIES $Z = 0.02$ and $Z = 0.01$. Astrophysical Journal, Supplement Series, 2016, 225, 24.	3.0	172
88	The effect of pair-instability mass loss on black-hole mergers. Astronomy and Astrophysics, 2016, 594, A97.	2.1	289
89	THE INFLUENCE OF ACCRETION RATE AND METALLICITY ON THERMONUCLEAR BURSTS: PREDICTIONS FROM KEPLER MODELS. Astrophysical Journal, 2016, 819, 46.	1.6	30
90	Blue supergiant progenitors from binary mergers for SN 1987A and other Type II-peculiar supernovae. Proceedings of the International Astronomical Union, 2016, 12, 64-68.	0.0	0

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91	A simple approach to the supernova progenitorâ€‘explosion connection. Monthly Notices of the Royal Astronomical Society, 2016, 460, 742-764.	1.6	146
92	Progress of Jinping Underground laboratory for Nuclear Astrophysics (JUNA). Science China: Physics, Mechanics and Astronomy, 2016, 59, 1.	2.0	45
93	Nebular spectra of pair-instability supernovae. Monthly Notices of the Royal Astronomical Society, 2016, 455, 3207-3229.	1.6	58
94	METAL-POOR STARS OBSERVED WITH THE<i>MAGELLAN</i> TELESCOPE. III. NEW EXTREMELY AND ULTRA METAL-POOR STARS FROM SDSS/SEGUE AND INSIGHTS ON THE FORMATION OF ULTRA METAL-POOR STARS. Astrophysical Journal, 2015, 809, 136.	1.6	60
95	THE REMARKABLE DEATHS OF 9â€‘11 SOLAR MASS STARS. Astrophysical Journal, 2015, 810, 34.	1.6	192
96	NUCLEOSYNTHESIS IN A PRIMORDIAL SUPERNOVA: CARBON AND OXYGEN ABUNDANCES IN SMSS J031300.36â€‘670839.3. Astrophysical Journal Letters, 2015, 806, L16.	3.0	59
97	The quest for blue supergiants: Evolution of binary merger progenitors of Type-II peculiar supernovae and SN 1987A. Proceedings of the International Astronomical Union, 2015, 11, 460-460.	0.0	0
98	COSMOLOGICAL IMPACT OF POPULATION III BINARIES. Astrophysical Journal, 2015, 802, 13.	1.6	14
99	The GALAH survey: scientific motivation. Monthly Notices of the Royal Astronomical Society, 2015, 449, 2604-2617.	1.6	535
100	SULFUR ISOTOPIC COMPOSITIONS OF SUBMICROMETER SiC GRAINS FROM THE MURCHISON METEORITE. Astrophysical Journal, 2015, 799, 156.	1.6	51
101	<p> http://www.w3.org/1998/Math/MathML </p> C^{12}		

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109	TWO-DIMENSIONAL SIMULATIONS OF PULSATIONAL PAIR-INSTABILITY SUPERNOVAE. <i>Astrophysical Journal</i> , 2014, 792, 28.	1.6	67
110	PAIR-INSTABILITY SUPERNOVAE IN THE LOCAL UNIVERSE. <i>Astrophysical Journal</i> , 2014, 797, 9.	1.6	31
111	FINDING THE FIRST COSMIC EXPLOSIONS. III. PULSATIONAL PAIR-INSTABILITY SUPERNOVAE. <i>Astrophysical Journal</i> , 2014, 781, 106.	1.6	40
112	PAIR INSTABILITY SUPERNOVAE OF VERY MASSIVE POPULATION III STARS. <i>Astrophysical Journal</i> , 2014, 792, 44.	1.6	52
113	A single low-energy, iron-poor supernova as the source of metals in the star SMSS J031300.36 ^h 670839.3. <i>Nature</i> , 2014, 506, 463-466.	13.7	298
114	Origin of the Elements. , 2014, , 1-14.		1
115	REACTION RATE AND COMPOSITION DEPENDENCE OF THE STABILITY OF THERMONUCLEAR BURNING ON ACCRETING NEUTRON STARS. <i>Astrophysical Journal</i> , 2014, 787, 101.	1.6	30
116	THE GENERAL RELATIVISTIC INSTABILITY SUPERNOVA OF A SUPERMASSIVE POPULATION III STAR. <i>Astrophysical Journal</i> , 2014, 790, 162.	1.6	54
117	Stellar origin of the ¹⁸² Hf cosmochronometer and the presolar history of solar system matter. <i>Science</i> , 2014, 345, 650-653.	6.0	73
118	Numerical approaches for multidimensional simulations of stellar explosions. <i>Astronomy and Computing</i> , 2013, 3-4, 70-78.	0.8	16
119	Going supernova. <i>Nature</i> , 2013, 494, 46-47.	13.7	1
120	SEEING THE FIRST SUPERNOVAE AT THE EDGE OF THE UNIVERSE WITH JWST. <i>Astrophysical Journal Letters</i> , 2013, 762, L6.	3.0	74
121	METALLICITY-DEPENDENT GALACTIC ISOTOPIC DECOMPOSITION FOR NUCLEOSYNTHESIS. <i>Astrophysical Journal</i> , 2013, 774, 75.	1.6	20
122	THE IMPACT OF HELIUM-BURNING REACTION RATES ON MASSIVE STAR EVOLUTION AND NUCLEOSYNTHESIS. <i>Astrophysical Journal</i> , 2013, 769, 2.	1.6	29
123	FINDING THE FIRST COSMIC EXPLOSIONS. II. CORE-COLLAPSE SUPERNOVAE. <i>Astrophysical Journal</i> , 2013, 768, 95.	1.6	42
124	THE SUPERNOVA THAT DESTROYED A PROTOGALAXY: PROMPT CHEMICAL ENRICHMENT AND SUPERMASSIVE BLACK HOLE GROWTH. <i>Astrophysical Journal</i> , 2013, 774, 64.	1.6	42
125	THE BIGGEST EXPLOSIONS IN THE UNIVERSE. <i>Astrophysical Journal</i> , 2013, 775, 107.	1.6	38
126	FINDING THE FIRST COSMIC EXPLOSIONS. I. PAIR-INSTABILITY SUPERNOVAE. <i>Astrophysical Journal</i> , 2013, 777, 110.	1.6	74

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127	THE BIGGEST EXPLOSIONS IN THE UNIVERSE. II.. Astrophysical Journal, 2013, 777, 99.	1.6	31
128	THE METALLICITY DEPENDENCE OF THE MINIMUM MASS FOR CORE-COLLAPSE SUPERNOVAE. Astrophysical Journal Letters, 2013, 765, L43.	3.0	46
129	PRODUCTION OF CARBON-RICH PRESOLAR GRAINS FROM MASSIVE STARS. Astrophysical Journal Letters, 2013, 767, L22.	3.0	42
130	New Primary Mechanisms for the Synthesis of Rare ${}^9\text{Be}$ in Early Supernovae. Physical Review Letters, 2013, 110, 141101.	2.9	13
131	SUPERMASSIVE POPULATION III SUPERNOVAE AND THE BIRTH OF THE FIRST QUASARS. Astrophysical Journal, 2013, 778, 17.	1.6	37
132	LONG GAMMA-RAY TRANSIENTS FROM COLLAPSARS. Astrophysical Journal, 2012, 752, 32.	1.6	135
133	Fates of the most massive primordial stars. , 2012, , .		0
134	Very Massive Stars in the local Universe. Proceedings of the International Astronomical Union, 2012, 10, 51-79.	0.0	17
135	Conservative Initial Mapping For Multidimensional Simulations of Stellar Explosions. Journal of Physics: Conference Series, 2012, 402, 012024.	0.3	2
136	NEW TWO-DIMENSIONAL MODELS OF SUPERNOVA EXPLOSIONS BY THE NEUTRINO-HEATING MECHANISM: EVIDENCE FOR DIFFERENT INSTABILITY REGIMES IN COLLAPSING STELLAR CORES. Astrophysical Journal, 2012, 761, 72.	1.6	136
137	SUPERBURST MODELS FOR NEUTRON STARS WITH HYDROGEN- AND HELIUM-RICH ATMOSPHERES. Astrophysical Journal, 2012, 752, 150.	1.6	46
138	Impact of the First Stars to the First Galaxy Formation. Proceedings of the International Astronomical Union, 2012, 8, 21-21.	0.0	0
139	The Final Stages of Massive Star Evolution and Their Supernovae. Astrophysics and Space Science Library, 2012, , 299-326.	1.0	4
140	Forming massive black holes through stellar collapse: Observational diagnostics. Astronomische Nachrichten, 2011, 332, 408-413.	0.6	9
141	Multidimensional simulations of pair-instability supernovae. Computer Physics Communications, 2011, 182, 254-256.	3.0	17
142	PAIR INSTABILITY SUPERNOVAE: LIGHT CURVES, SPECTRA, AND SHOCK BREAKOUT. Astrophysical Journal, 2011, 734, 102.	1.6	196
143	B and Constraints on Neutrino Oscillations and Spectra from Neutrino Nucleosynthesis. Physical Review Letters, 2011, 106, 152501.	2.9	27
144	MULTI-ZONE MODELS OF SUPERBURSTS FROM ACCRETING NEUTRON STARS. Astrophysical Journal, 2011, 743, 189.	1.6	45

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145	Nucleosynthesis of proton-rich nuclei. Experimental results on therp-process. Journal of Physics: Conference Series, 2010, 202, 012009.	0.3	3
146	MULTI-INSTRUMENT X-RAY OBSERVATIONS OF THERMONUCLEAR BURSTS WITH SHORT RECURRENCE TIMES. Astrophysical Journal, 2010, 718, 292-305.	1.6	62
147	PRODUCTION OF ^{26}Al , ^{44}Ti , AND ^{60}Fe IN CORE-COLLAPSE SUPERNOVAE: SENSITIVITY TO THE RATES OF THE TRIPLE ALPHA AND $^{12}\text{C}(\alpha, n)^{16}\text{O}$ REACTIONS. Astrophysical Journal, 2010, 718, 357-367.	1.6	90
148	THE NUCLEOSYNTHETIC IMPRINT OF ^{40}Mg PRIMORDIAL SUPERNOVAE ON METAL-POOR STARS. Astrophysical Journal, 2010, 709, 11-26.	1.6	113
149	Two-Dimensional Simulations of Pair-Instability Supernovae. , 2010, , .		0
150	THE JINA REACLIB DATABASE: ITS RECENT UPDATES AND IMPACT ON TYPE-I X-RAY BURSTS. Astrophysical Journal, Supplement Series, 2010, 189, 240-252.	3.0	721
151	NUCLEOSYNTHESIS AND EVOLUTION OF MASSIVE METAL-FREE STARS. Astrophysical Journal, 2010, 724, 341-373.	1.6	505
152	MIXING IN ZERO- AND SOLAR-METALLICITY SUPERNOVAE. Astrophysical Journal, 2009, 693, 1780-1802.	1.6	93
153	DEPENDENCE OF s -PROCESS NUCLEOSYNTHESIS IN MASSIVE STARS ON TRIPLE-ALPHA AND $^{12}\text{C}(\alpha, n)^{16}\text{O}$ REACTION RATE UNCERTAINTIES. Astrophysical Journal, 2009, 702, 1068-1077.	1.6	48
154	THE IMPACT OF NEUTRINO MAGNETIC MOMENTS ON THE EVOLUTION OF MASSIVE STARS. Astrophysical Journal, 2009, 696, 608-619.	1.6	38
155	Long tails on thermonuclear X-ray bursts from neutron stars: a signature of inward heating?. Astronomy and Astrophysics, 2009, 497, 469-480.	2.1	20
156	Nucleosynthesis Now and Then. Proceedings of the International Astronomical Union, 2009, 5, 3-11.	0.0	0
157	The Supernova Channel of Super-AGB Stars. Astrophysical Journal, 2008, 675, 614-625.	1.6	240
158	Electron Capture-delayed neutron-emissions in neutron star crust simulations using a Hauser-Feshbach model. AIP Conference Proceedings, 2008, , .	0.3	1
159	Multidimensional Simulations of Mixing in Zero- and Solar-Metallicity SNe. , 2008, , .		2
160	White dwarf spins from low-mass stellar evolution models. Astronomy and Astrophysics, 2008, 481, L87-L90.	2.1	113
161	Multiple ring nebulae around blue supergiants. Astronomy and Astrophysics, 2008, 488, L37-L41.	2.1	63
162	Fallback and Black Hole Production in Massive Stars. Astrophysical Journal, 2008, 679, 639-654.	1.6	190

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163	Detailed Abundances for 28 Metal-poor Stars: Stellar Relics in the Milky Way. <i>Astrophysical Journal</i> , 2008, 681, 1524-1556.	1.6	269
164	The Molecular Hydrogen Deficit in Gamma-Ray Burst Afterglows. <i>Astrophysical Journal</i> , 2008, 682, 1114-1123.	1.6	38
165	Gamow-Teller Strength in the Exotic Odd-Odd Nuclei ^{138}La and ^{180}Ta and Its Relevance for Neutrino Nucleosynthesis. <i>Physical Review Letters</i> , 2007, 98, 082501.	2.9	70
166	On the Sensitivity of Massive Star Nucleosynthesis and Evolution to Solar Abundances and to Uncertainties in Helium-Burning Reaction Rates. <i>Astrophysical Journal</i> , 2007, 671, 821-827.	1.6	65
167	The Lack of Gamma-Ray Bursts from Population III Binaries. <i>Astrophysical Journal</i> , 2007, 664, 986-999.	1.6	29
168	Millihertz Quasi-Periodic Oscillations from Marginally Stable Nuclear Burning on an Accreting Neutron Star. <i>Astrophysical Journal</i> , 2007, 665, 1311-1320.	1.6	72
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