Chris Fryer

List of Publications by Year
in descending order

163 papers	19,363 citations	19608 61 h-index	10708 138 g-index
173 all docs	173 docs citations	173 times ranked	9197 citing authors

#	Article	IF	Citations
1	THENUCLEAR SPECTROSCOPIC TELESCOPE ARRAY(NuSTAR) HIGH-ENERGY X-RAY MISSION. Astrophysical Journal, 2013, 770, 103.	1.6	1,627
2	How Massive Single Stars End Their Life. Astrophysical Journal, 2003, 591, 288-300.	1.6	1,584
3	COMPACT REMNANT MASS FUNCTION: DEPENDENCE ON THE EXPLOSION MECHANISM AND METALLICITY. Astrophysical Journal, 2012, 749, 91.	1.6	695
4	Common envelope evolution: where we stand and how we can move forward. Astronomy and Astrophysics Review, 2013, 21, 1.	9.1	691
5	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. II. UV, Optical, and Near-infrared Light Curves and Comparison to Kilonova Models. Astrophysical Journal Letters, 2017, 848, L17.	3.0	656
6	The X-ray counterpart to the gravitational-wave event GW170817. Nature, 2017, 551, 71-74.	13.7	627
7	Hyperaccreting Black Holes and GammaâEray Bursts. Astrophysical Journal, 1999, 518, 356-374.	1.6	624
8	Inside the supernova: A powerful convective engine. Astrophysical Journal, 1994, 435, 339.	1.6	509
9	The Emergence of a Lanthanide-rich Kilonova Following the Merger of Two Neutron Stars. Astrophysical Journal Letters, 2017, 848, L27.	3.0	507
10	ON THE MAXIMUM MASS OF STELLAR BLACK HOLES. Astrophysical Journal, 2010, 714, 1217-1226.	1.6	485
11	Mass Limits For Black Hole Formation. Astrophysical Journal, 1999, 522, 413-418.	1.6	452
12	Theoretical Black Hole Mass Distributions. Astrophysical Journal, 2001, 554, 548-560.	1.6	443
13	Swift and NuSTAR observations of GW170817: Detection of a blue kilonova. Science, 2017, 358, 1565-1570.	6.0	399
14	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. I. Discovery of the Optical Counterpart Using the Dark Energy Camera. Astrophysical Journal Letters, 2017, 848, L16.	3.0	392
15	The Electromagnetic Counterpart of the Binary Neutron Star Merger LIGO/Virgo GW170817. IV. Detection of Near-infrared Signatures of r-process Nucleosynthesis with Gemini-South. Astrophysical Journal Letters, 2017, 848, L19.	3.0	390
16	Formation Rates of Black Hole Accretion Disk GammaâERay Bursts. Astrophysical Journal, 1999, 526, 152-177.	1.6	386
17	PairâEInstability Supernovae, Gravity Waves, and GammaâERay Transients. Astrophysical Journal, 2001, 550, 372-382.	1.6	372
18	The effect of pair-instability mass loss on black-hole mergers. Astronomy and Astrophysics, 2016, 594, A97.	2.1	289

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19	RATES AND DELAY TIMES OF TYPE Ia SUPERNOVAE. Astrophysical Journal, 2009, 699, 2026-2036.	1.6	256
20	Evolutionary roads leading to low effective spins, high black hole masses, and O1/O2 rates for LIGO/Virgo binary black holes. Astronomy and Astrophysics, 2020, 636, A104.	2.1	256
21	THE EFFECT OF METALLICITY ON THE DETECTION PROSPECTS FOR GRAVITATIONAL WAVES. Astrophysical Journal Letters, 2010, 715, L138-L141.	3.0	253
22	Coreâ€Collapse Simulations of Rotating Stars. Astrophysical Journal, 2000, 541, 1033-1050.	1.6	240
23	A New Look at the Binary Characteristics of Massive Stars. Astrophysical Journal, 2007, 670, 747-765.	1.6	237
24	MISSING BLACK HOLES UNVEIL THE SUPERNOVA EXPLOSION MECHANISM. Astrophysical Journal, 2012, 757, 91.	1.6	209
25	Asymmetries in core-collapse supernovae from maps of radioactive 44Ti in Cassiopeiaâ€‰‰A. Nature, 2014, 506, 339-342.	13.7	208
26	SIMULATING THE COMMON ENVELOPE PHASE OF A RED GIANT USING SMOOTHED-PARTICLE HYDRODYNAMICS AND UNIFORM-GRID CODES. Astrophysical Journal, 2012, 744, 52.	1.6	189
27	Modeling Core-Collapse Supernovae in Three Dimensions. Astrophysical Journal, 2002, 574, L65-L68.	1.6	173
28	CONVECTIVE-REACTIVE PROTON-¹²C COMBUSTION IN SAKURAI'S OBJECT (V4334 SAGITTARII) AND IMPLICATIONS FOR THE EVOLUTION AND YIELDS FROM THE FIRST GENERATIONS OF STARS. Astrophysical Journal, 2011, 727, 89.	1.6	173
29	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
30	The Origin of r-process Elements in the Milky Way. Astrophysical Journal, 2018, 855, 99.	1.6	168
31	Helium Star/Black Hole Mergers: A New Gamma-Ray Burst Model. Astrophysical Journal, 1998, 502, L9-L12.	1.6	160
32	What Can the Accretionâ€induced Collapse of White Dwarfs Really Explain?. Astrophysical Journal, 1999, 516, 892-899.	1.6	160
33	Population Syntheses for Neutron Star Systems with Intrinsic Kicks. Astrophysical Journal, 1998, 496, 333-351.	1.6	155
34	The Collapse of Rotating Massive Stars in Three Dimensions. Astrophysical Journal, 2004, 601, 391-404.	1.6	155
35	Neutron Star Mergers Might Not Be the Only Source of r-process Elements in the Milky Way. Astrophysical Journal, 2019, 875, 106.	1.6	152
36	Constraints on the Progenitor of Cassiopeia A. Astrophysical Journal, 2006, 640, 891-900.	1.6	143

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37	Delay times and rates for Type Ia supernovae and thermonuclear explosions from double-detonation sub-Chandrasekhar mass models. Monthly Notices of the Royal Astronomical Society, 2011, 417, 408-419.	1.6	128
38	Cosmological Aspects of Gammaâ€Ray Bursts: Luminosity Evolution and an Estimate of the Star Formation Rate at High Redshifts. Astrophysical Journal, 2002, 574, 554-565.	1.6	124
39	The Dynamics and Outcomes of Rapid Infall onto Neutron Stars. Astrophysical Journal, 1996, 460, 801.	1.6	118
40	Binary Merger Progenitors for Gammaâ€Ray Bursts and Hypernovae. Astrophysical Journal, 2005, 623, 302-313.	1.6	117
41	SN 2010jl: OPTICAL TO HARD X-RAY OBSERVATIONS REVEAL AN EXPLOSION EMBEDDED IN A TEN SOLAR MASS COCOON. Astrophysical Journal, 2014, 781, 42.	1.6	110
42	⁴⁴ Ti gamma-ray emission lines from SN1987A reveal an asymmetric explosion. Science, 2015, 348, 670-671.	6.0	105
43	Understanding Compact Object Formation and Natal Kicks. I. Calculation Methods and the Case of GRO J1655â˜'40. Astrophysical Journal, 2005, 625, 324-346.	1.6	102
44	The unusual Î³-ray burst GRB 101225A from a helium star/neutron star merger at redshift 0.33. Nature, 2011, 480, 72-74.	13.7	100
45	THE FORMATION AND GRAVITATIONAL-WAVE DETECTION OF MASSIVE STELLAR BLACK HOLE BINARIES. Astrophysical Journal, 2014, 789, 120.	1.6	98
46	THE GROWTH OF THE STELLAR SEEDS OF SUPERMASSIVE BLACK HOLES. Astrophysical Journal, 2012, 750, 66.	1.6	88
47	THE DISTRIBUTION OF RADIOACTIVE ⁴⁴Ti IN CASSIOPEIA A. Astrophysical Journal, 2017, 834, 19.	1.6	87
48	UNDERSTANDING COMPACT OBJECT FORMATION AND NATAL KICKS. II. THE CASE OF XTE J1118 + 480. Astrophysical Journal, 2009, 697, 1057-1070.	1.6	85
49	A line-binned treatment of opacities for the spectra and light curves from neutron star mergers. Monthly Notices of the Royal Astronomical Society, 2020, 493, 4143-4171.	1.6	82
50	GLOBAL NON-SPHERICAL OSCILLATIONS IN THREE-DIMENSIONAL 4Ï€ SIMULATIONS OF THE H-INGESTION FLASH. Astrophysical Journal Letters, 2014, 792, L3.	3.0	81
51	Californium-254 and Kilonova Light Curves. Astrophysical Journal Letters, 2018, 863, L23.	3.0	80
52	THE FORMATION OF SUPERMASSIVE BLACK HOLES FROM LOW-MASS POP III SEEDS. Astrophysical Journal Letters, 2012, 756, L19.	3.0	77
53	HYPERCRITICAL ACCRETION, INDUCED GRAVITATIONAL COLLAPSE, AND BINARY-DRIVEN HYPERNOVAE. Astrophysical Journal Letters, 2014, 793, L36.	3.0	77
54	The Merger of a Helium Star and a Black Hole: Gammaâ€Ray Bursts. Astrophysical Journal, 2001, 550, 357-367.	1.6	75

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55	SEEING THE FIRST SUPERNOVAE AT THE EDGE OF THE UNIVERSE WITH JWST. Astrophysical Journal Letters, 2013, 762, L6.	3.0	74
56	FINDING THE FIRST COSMIC EXPLOSIONS. I. PAIR-INSTABILITY SUPERNOVAE. Astrophysical Journal, 2013, 777, 110.	1.6	74
57	SPECTRA OF TYPE IA SUPERNOVAE FROM DOUBLE DEGENERATE MERGERS. Astrophysical Journal, 2010, 725, 296-308.	1.6	73
58	THE FATE OF THE COMPACT REMNANT IN NEUTRON STAR MERGERS. Astrophysical Journal, 2015, 812, 24.	1.6	71
59	Advanced LIGO Constraints on Neutron Star Mergers and r-process Sites. Astrophysical Journal, 2017, 836, 230.	1.6	71
60	Gammaâ€Ray Lines from Asymmetric Supernovae. Astrophysical Journal, 2003, 594, 390-403.	1.6	69
61	Axisymmetric Radiative Transfer Models of Kilonovae. Astrophysical Journal, 2021, 910, 116.	1.6	67
62	BROADBAND X-RAY IMAGING AND SPECTROSCOPY OF THE CRAB NEBULA AND PULSAR WITHNuSTAR. Astrophysical Journal, 2015, 801, 66.	1.6	63
63	CARBON-RICH PRESOLAR GRAINS FROM MASSIVE STARS: SUBSOLAR ¹² C/ ¹³ C AND ¹⁴ N/ ¹⁵ N RATIOS AND THE MYSTERY OF ¹⁵ N. Astrophysical Journal Letters, 2015, 808, L43.	3.0	61
64	An Isolated Stellar-mass Black Hole Detected through Astrometric Microlensing*. Astrophysical Journal, 2022, 933, 83.	1.6	60
65	Full Transport General Relativistic Radiation Magnetohydrodynamics for Nucleosynthesis in Collapsars. Astrophysical Journal, 2020, 902, 66.	1.6	58
66	A luminosity distribution for kilonovae based on short gamma-ray burst afterglows. Monthly Notices of the Royal Astronomical Society, 2019, 486, 672-690.	1.6	56
67	NEUTRINOS FROM FALLBACK ONTO NEWLY FORMED NEUTRON STARS. Astrophysical Journal, 2009, 699, 409-420.	1.6	55
68	Infrared Emission from Kilonovae: The Case of the Nearby Short Hard Burst GRB 160821B. Astrophysical Journal Letters, 2017, 843, L34.	3.0	53
69	The Neutrino Bubble Instability: A Mechanism for Generating Pulsar Kicks. Astrophysical Journal, 2005, 632, 531-562.	1.6	52
70	INTERPRETING SHORT GAMMA-RAY BURST PROGENITOR KICKS AND TIME DELAYS USING THE HOST GALAXYâ€“DARK MATTER HALO CONNECTION. Astrophysical Journal, 2014, 792, 123.	1.6	52
71	Gamma Rays from Singleâ€Lobe Supernova Explosions. Astrophysical Journal, 2005, 635, 487-501.	1.6	51
72	THE UNUSUAL TEMPORAL AND SPECTRAL EVOLUTION OF THE TYPE IIn SUPERNOVA 2011ht. Astrophysical Journal, 2012, 751, 92.	1.6	51

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73	Consequences of Giant Impacts on Early Uranus for Rotation, Internal Structure, Debris, and Atmospheric Erosion. Astrophysical Journal, 2018, 861, 52.	1.6	51
74	SPECTRA AND LIGHT CURVES OF FAILED SUPERNOVAE. Astrophysical Journal, 2009, 707, 193-207.	1.6	49
75	ON THE INDUCED GRAVITATIONAL COLLAPSE SCENARIO OF GAMMA-RAY BURSTS ASSOCIATED WITH SUPERNOVAE. Astrophysical Journal, 2016, 833, 107.	1.6	47
76	Uncertainties in Supernova Yields. I. Oneâ€dimensional Explosions. Astrophysical Journal, 2007, 664, 1033-1044.	1.6	46
77	ANGULAR MOMENTUM ROLE IN THE HYPERCRITICAL ACCRETION OF BINARY-DRIVEN HYPERNOVAE. Astrophysical Journal, 2015, 812, 100.	1.6	45
78	Iron Opacity and the Pulsar of SN 1987A. Astrophysical Journal, 1999, 511, 885-895.	1.6	44
79	Cross-code comparisons of mixing during the implosion of dense cylindrical and spherical shells. Journal of Computational Physics, 2014, 275, 154-173.	1.9	44
80	UNCERTAINTIES IN GALACTIC CHEMICAL EVOLUTION MODELS. Astrophysical Journal, 2016, 824, 82.	1.6	44
81	FINDING THE FIRST COSMIC EXPLOSIONS. II. CORE-COLLAPSE SUPERNOVAE. Astrophysical Journal, 2013, 768, 95.	1.6	42
82	THE SUPERNOVA THAT DESTROYED A PROTOGALAXY: PROMPT CHEMICAL ENRICHMENT AND SUPERMASSIVE BLACK HOLE GROWTH. Astrophysical Journal, 2013, 774, 64.	1.6	42
83	THE LOS ALAMOS SUPERNOVA LIGHT-CURVE PROJECT: COMPUTATIONAL METHODS. Astrophysical Journal, Supplement Series, 2013, 204, 16.	3.0	41
84	A SPATIALLY RESOLVED STUDY OF THE SYNCHROTRON EMISSION AND TITANIUM IN TYCHOâ€™S SUPERNOVA REMNANT USINGNuSTAR. Astrophysical Journal, 2015, 814, 132.	1.6	41
85	FINDING THE FIRST COSMIC EXPLOSIONS. III. PULSATIONAL PAIR-INSTABILITY SUPERNOVAE. Astrophysical Journal, 2014, 781, 106.	1.6	40
86	Neutron-Starâ€“Black-Hole Binaries Produced by Binary-Driven Hypernovae. Physical Review Letters, 2015, 115, 231102.	2.9	40
87	LOCATING THE MOST ENERGETIC ELECTRONS IN CASSIOPEIA A. Astrophysical Journal, 2015, 802, 15.	1.6	40
88	Fallback in stellar collapse. New Astronomy Reviews, 2006, 50, 492-495.	5.2	39
89	ILLUMINATING THE PRIMEVAL UNIVERSE WITH TYPE IIn SUPERNOVAE. Astrophysical Journal, 2013, 768, 195.	1.6	39
90	THE BIGGEST EXPLOSIONS IN THE UNIVERSE. Astrophysical Journal, 2013, 775, 107.	1.6	38

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91	A Broad Grid of 2D Kilonova Emission Models. Astrophysical Journal, 2021, 918, 10.	1.6	38
92	SUPERMASSIVE POPULATION III SUPERNOVAE AND THE BIRTH OF THE FIRST QUASARS. Astrophysical Journal, 2013, 778, 17.	1.6	37
93	Composition Effects on Kilonova Spectra and Light Curves. I. Astrophysical Journal, 2020, 899, 24.	1.6	37
94	Parameterizing the Supernova Engine and Its Effect on Remnants and Basic Yields. Astrophysical Journal, 2018, 856, 63.	1.6	36
95	ON THE ORIGIN OF THE HIGHEST REDSHIFT GAMMA-RAY BURSTS. Astrophysical Journal, 2010, 708, 117-126.	1.6	35
96	Generating Optimal Initial Conditions for Smoothed Particle Hydrodynamics Simulations. Publications of the Astronomical Society of Australia, 2015, 32, .	1.3	35
97	SPH Simulations of the Induced Gravitational Collapse Scenario of Long Gamma-Ray Bursts Associated with Supernovae. Astrophysical Journal, 2019, 871, 14.	1.6	35
98	DO R CORONAE BOREALIS STARS FORM FROM DOUBLE WHITE DWARF MERGERS?. Astrophysical Journal, 2012, 757, 76.	1.6	34
99	THE LONG-LIVED UV â€œPLATEAUâ€•OF SN 2012aw. Astrophysical Journal Letters, 2013, 764, L13.	3.0	34
100	Kilonova Detectability with Wide-field Instruments. Astrophysical Journal, 2022, 927, 163.	1.6	34
101	THE FIRST GAMMA-RAY BURSTS IN THE UNIVERSE. Astrophysical Journal, 2014, 787, 91.	1.6	33
102	THE BIGGEST EXPLOSIONS IN THE UNIVERSE. II.. Astrophysical Journal, 2013, 777, 99.	1.6	31
103	PAIR-INSTABILITY SUPERNOVAE IN THE LOCAL UNIVERSE. Astrophysical Journal, 2014, 797, 9.	1.6	31
104	Light-Curve Calculations of Supernovae from Fallback Gamma-Ray Bursts. Astrophysical Journal, 2007, 662, L55-L58.	1.6	30
105	Impact of Pulsar and Fallback Sources on Multifrequency Kilonova Models. Astrophysical Journal, 2019, 880, 22.	1.6	29
106	Gamma Rays from Kilonova: A Potential Probe of r-process Nucleosynthesis. Astrophysical Journal, 2020, 889, 168.	1.6	29
107	GAMMA-RAY BURSTS IN CIRCUMSTELLAR SHELLS: A POSSIBLE EXPLANATION FOR FLARES. Astrophysical Journal, 2012, 757, 117.	1.6	27
108	The Formation of Rapidly Rotating Black Holes in High-mass X-Ray Binaries. Astrophysical Journal Letters, 2017, 846, L15.	3.0	25

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109	SYGMA: Stellar Yields for Galactic Modeling Applications. Astrophysical Journal, Supplement Series, 2018, 237, 42.	3.0	25
110	CAN STELLAR MIXING EXPLAIN THE LACK OF TYPE Ib SUPERNOVAE IN LONG-DURATION GAMMA-RAY BURSTS?. Astrophysical Journal Letters, 2013, 773, L7.	3.0	24
111	The Effect of Supernova Convection On Neutron Star and Black Hole Masses. Astrophysical Journal, 2022, 931, 94.	1.6	24
112	Temperature measurements of shocked silica aerogel foam. Physical Review E, 2014, 90, 033107.	0.8	23
113	HIGH-ENERGY X-RAY IMAGING OF THE PULSAR WIND NEBULA MSH 15â€“52: CONSTRAINTS ON PARTICLE ACCELERATION AND TRANSPORT. Astrophysical Journal, 2014, 793, 90.	1.6	23
114	POPULATION III HYPERNOVAE. Astrophysical Journal, 2014, 797, 97.	1.6	22
115	60Fe in core-collapse supernovae and prospects for X-ray and gamma-ray detection in supernova remnants. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4287-4310.	1.6	22
116	THE HARD X-RAY VIEW OF THE YOUNG SUPERNOVA REMNANT G1.9+0.3. Astrophysical Journal, 2015, 798, 98.	1.6	21
117	X-RAY SPECTRAL COMPONENTS OBSERVED IN THE AFTERGLOW OF GRB 130925A. Astrophysical Journal Letters, 2014, 784, L19.	3.0	19
118	Understanding the engines and progenitors of gamma-ray bursts. European Physical Journal A, 2019, 55, 1.	1.0	19
119	The Nucleosynthetic Yields of Core-collapse Supernovae: Prospects for the Next Generation of Gamma-Ray Astronomy. Astrophysical Journal, 2020, 890, 35.	1.6	19
120	The neutron capture process in the He shell in core-collapse supernovae: Presolar silicon carbide grains as a diagnostic tool for nuclear astrophysics. Geochimica Et Cosmochimica Acta, 2018, 221, 37-46.	1.6	18
121	The Location and Environments of Neutron Star Mergers in an Evolving Universe. Astrophysical Journal, 2018, 865, 27.	1.6	16
122	The Role of Dredge-up in Double White Dwarf Mergers. Astrophysical Journal, 2018, 862, 74.	1.6	15
123	SUPERNOVA EXPLOSIONS: UNDERSTANDING MIXING. International Journal of Modern Physics D, 2007, 16, 941-981.	0.9	14
124	Progenitors and explosion properties of supernova remnants hosting central compact objects: I. RCWâ€‰103 associated with the peculiar source 1Eâ€‰161348â¯5055. Monthly Notices of the Royal Astronomical Society, 2019, 489, 4444-4463.	1.6	14
125	Sensitivity of Neutron-Rich Nuclear Isomer Behavior to Uncertainties in Direct Transitions. Symmetry, 2021, 13, 1831.	1.1	14
126	FINDING TRACERS FOR SUPERNOVA PRODUCED²⁶Al. Astrophysical Journal, 2009, 699, 938-947.	1.6	13

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127	THE EFFECTS ON SUPERNOVA SHOCK BREAKOUT ANDSWIFTLIGHT CURVES DUE TO THE MASS OF THE HYDROGEN-RICH ENVELOPE. Astrophysical Journal, 2015, 805, 98.	1.6	13
128	Interpolating detailed simulations of kilonovae: Adaptive learning and parameter inference applications. Physical Review Research, 2022, 4, .	1.3	13
129	STELLAR COLLAPSE. International Journal of Modern Physics D, 2003, 12, 1795-1835.	0.9	12
130	Radioactive nuclei in the early Solar system: analysis of the 15 isotopes produced by core-collapse supernovae. Monthly Notices of the Royal Astronomical Society, 2022, 511, 886-902.	1.6	12
131	THE POPULATION OF HELIUM-MERGER PROGENITORS: OBSERVATIONAL PREDICTIONS. Astrophysical Journal, 2013, 764, 181.	1.6	11
132	CHARACTERIZING MID-ULTRAVIOLET TO OPTICAL LIGHT CURVES OF NEARBY TYPE IIn SUPERNOVAE. Astrophysical Journal, 2016, 820, 74.	1.6	11
133	A Comparison of Grid-based and SPH Binary Mass-transfer and Merger Simulations. Astrophysical Journal, Supplement Series, 2017, 229, 27.	3.0	11
134	Light Curves and Spectra from a Unimodal Core-collapse Supernova. Astrophysical Journal, 2017, 845, 168.	1.6	11
135	EXPLAINING TEV COSMIC-RAY ANISOTROPIES WITH NON-DIFFUSIVE COSMIC-RAY PROPAGATION. Astrophysical Journal, 2016, 822, 102.	1.6	10
136	MODEL ATMOSPHERES FOR X-RAY BURSTING NEUTRON STARS. Astrophysical Journal, 2016, 832, 102.	1.6	10
137	Transport of Protostellar Cosmic Rays in Turbulent Dense Cores. Astrophysical Journal, 2021, 915, 43.	1.6	10
138	Titanium and Iron in the Cassiopeia A Supernova Remnant. Astrophysical Journal, 2020, 895, 82.	1.6	10
139	The Role of Inhomogeneities in Supernova Shock Breakout Emission. Astrophysical Journal, 2020, 898, 123.	1.6	10
140	The Local Environments of Longâ€Duration Gammaâ€Ray Bursts. Astrophysical Journal, 2007, 670, 584-591.	1.6	9
141	Properties of High-redshift Gamma-Ray Bursts. Astrophysical Journal, 2022, 929, 111.	1.6	9
142	Constraints on gamma-ray burst inner engines in a Blandfordâ€“Znajek framework. Monthly Notices of the Royal Astronomical Society, 2019, 485, 203-210.	1.6	8
143	Dependence of Dust Formation on the Supernova Explosion. Astrophysical Journal, 2022, 931, 85.	1.6	7
144	Observational constraints of stellar collapse: Diagnostic probes of nature's extreme matter experiment. AIP Advances, 2014, 4, .	0.6	6

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145	Pre-nebular Light Curves of SNe I. Astrophysical Journal, 2017, 846, 33.	1.6	6
146	A new twist on neutron stars. Nature, 2001, 411, 31-33.	13.7	5
147	Rapidly Interpreting UV-optical Light Curve Properties Using a â€œSimpleâ€•Modeling Approach. Astrophysical Journal, 2017, 850, 133.	1.6	5
148	Supernova Shock Breakout/Emergence Detection Predictions for a Wide-field X-Ray Survey. Astrophysical Journal, 2022, 931, 15.	1.6	5
149	JINA-NuGrid Galactic Chemical Evolution Pipeline. , 2017, , .		4
150	Understanding the Death of Massive Stars Using an Astrophysical Transients Observatory. Frontiers in Astronomy and Space Sciences, 2018, 5, .	1.1	3
151	Opacity Effects on Pulsations of Main-Sequence A-Type Stars. Atoms, 2018, 6, 31.	0.7	3
152	The Supernovae Analysis Application (SNAP). Astrophysical Journal, 2017, 846, 101.	1.6	2
153	NuSTAR Observations of G11.2â€“0.3. Astrophysical Journal, 2020, 889, 23.	1.6	2
154	Simulating the induced gravitational collapse scenario of long gamma-ray bursts. International Journal of Modern Physics A, 2018, 33, 1844031.	0.5	1
155	Cosmic ray transport in mixed magnetic fields and their role on the observed anisotropies. Monthly Notices of the Royal Astronomical Society, 2020, 500, 3497-3510.	1.6	1
156	Understanding Convection in the Core-Collapse Supernovae Engine. Astronomy Reports, 2021, 65, 937-941.	0.2	1
157	Sapsan: Framework for Supernovae Turbulence Modeling with Machine Learning. Journal of Open Source Software, 2021, 6, 3199.	2.0	1
158	The Impact of Nuclear Physics Uncertainties on Galactic Chemical Evolution Predictions. Journal of Physics: Conference Series, 2020, 1668, 012008.	0.3	1
159	Probes of the progenitors, engines and physics behind stellar collapse. International Journal of Modern Physics D, 2022, 31, .	0.9	1
160	Explosions from stellar collapse. Symposium - International Astronomical Union, 2003, 212, 377-386.	0.1	0
161	Black holes, neutron stars and supernovae within the induced gravitational collapse paradigm for GRBs. AIP Conference Proceedings, 2015, , .	0.3	0
162	Diagnostics of the Supernova Engine. Proceedings of the International Astronomical Union, 2017, 12, 86-95.	0.0	0

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163	On the Induced Gravitational Collapse. EPJ Web of Conferences, 2018, 168, 02005.	0.1	0