

Friedrich-Karl Thielemann

List of Publications by Year in descending order

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148
papers

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6434
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#	ARTICLE	IF	CITATIONS
1	Accreting white dwarf models of Type I supernovae. III - Carbon deflagration supernovae. <i>Astrophysical Journal</i> , 1984, 286, 644.	4.5	1,196
2	Nucleosynthesis in Chandrasekhar Mass Models for Type Ia Supernovae and Constraints on Progenitor Systems and Burningâ€œFront Propagation. <i>Astrophysical Journal, Supplement Series</i> , 1999, 125, 439-462.	7.7	1,080
3	Astrophysical Reaction Rates From Statistical Model Calculations. <i>Atomic Data and Nuclear Data Tables</i> , 2000, 75, 1-351.	2.4	807
4	THE JINA REACLIB DATABASE: ITS RECENT UPDATES AND IMPACT ON TYPE-I X-RAY BURSTS. <i>Astrophysical Journal, Supplement Series</i> , 2010, 189, 240-252.	7.7	721
5	[CLC][ITAL]r[/ITAL][[/CLC]-Process in Neutron Star Mergers. <i>Astrophysical Journal</i> , 1999, 525, L121-L124.	4.5	678
6	Core-Collapse Supernovae and Their Ejecta. <i>Astrophysical Journal</i> , 1996, 460, 408.	4.5	620
7	rp-process nucleosynthesis at extreme temperature and density conditions. <i>Physics Reports</i> , 1998, 294, 167-263.	25.6	581
8	The R-process and nucleochronology. <i>Physics Reports</i> , 1991, 208, 267-394.	25.6	544
9	End Point of therpProcess on Accreting Neutron Stars. <i>Physical Review Letters</i> , 2001, 86, 3471-3474.	7.8	469
10	Neutrino-Induced Nucleosynthesis of $A > 64$ Nuclei: The $\hat{1}/2p$ Process. <i>Physical Review Letters</i> , 2006, 96, 142502.	7.8	421
11	MAGNETOROTATIONALLY DRIVEN SUPERNOVAE AS THE ORIGIN OF EARLY GALAXY r -PROCESS ELEMENTS?. <i>Astrophysical Journal Letters</i> , 2012, 750, L22.	8.3	396
12	Relative frequencies of Type Ia and Type II supernovae in the chemical evolution of the Galaxy, LMC and SMC. <i>Monthly Notices of the Royal Astronomical Society</i> , 1995, 277, 945-958.	4.4	344
13	Isotopic r -process abundances and nuclear structure far from stability - Implications for the r -process mechanism. <i>Astrophysical Journal</i> , 1993, 403, 216.	4.5	332
14	Origin of the heaviest elements: The rapid neutron-capture process. <i>Reviews of Modern Physics</i> , 2021, 93, .	45.6	326
15	Type Ia Supernovae: Influence of the Initial Composition on the Nucleosynthesis, Light Curves, and Spectra and Consequences for the Determination of $\hat{1}M_{\text{and}} \hat{1}$. <i>Astrophysical Journal</i> , 1998, 495, 617-629.	4.5	312
16	Nuclear level density and the determination of thermonuclear rates for astrophysics. <i>Physical Review C</i> , 1997, 56, 1613-1625.	2.9	299
17	Probing the gravitational well: No supernova explosion in spherical symmetry with general relativistic Boltzmann neutrino transport. <i>Physical Review D</i> , 2001, 63, .	4.7	269
18	TABLES OF NUCLEAR CROSS SECTIONS AND REACTION RATES: AN ADDENDUM TO THE PAPER â€œASTROPHYSICAL REACTION RATES FROM STATISTICAL MODEL CALCULATIONSâ€œ. <i>Atomic Data and Nuclear Data Tables</i> , 2001, 79, 47-64.	2.4	256

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19	Nucleosynthesis in type Ia supernovae. Nuclear Physics A, 1997, 621, 467-476.	1.5	253
20	THE r -PROCESS NUCLEOSYNTHESIS IN THE VARIOUS JET-LIKE EXPLOSIONS OF MAGNETOROTATIONAL CORE-COLLAPSE SUPERNOVAE. Astrophysical Journal, 2015, 810, 109.	4.5	245
21	A Finite Difference Representation of Neutrino Radiation Hydrodynamics in Spherically Symmetric General Relativistic Spacetime. Astrophysical Journal, Supplement Series, 2004, 150, 263-316.	7.7	242
22	What are the astrophysical sites for the r -process and the production of heavy elements?. Progress in Particle and Nuclear Physics, 2011, 66, 346-353.	14.4	229
23	Nucleosynthesis in type II supernovae. Nuclear Physics A, 1997, 616, 79-90.	1.5	226
24	The long-term evolution of neutron star merger remnants - I. The impact of r -process nucleosynthesis. Monthly Notices of the Royal Astronomical Society, 2014, 439, 744-756.	4.4	219
25	Simulation of the Spherically Symmetric Stellar Core Collapse, Bounce, and Postbounce Evolution of a Star of 13 Solar Masses with Boltzmann Neutrino Transport, and Its Implications for the Supernova Mechanism. Physical Review Letters, 2001, 86, 1935-1938.	7.8	209
26	r -Process Abundances and Chronometers in Metal-poor Stars. Astrophysical Journal, 1999, 521, 194-205.	4.5	200
27	The Astrophysical r -Process: A Comparison of Calculations following Adiabatic Expansion with Classical Calculations Based on Neutron Densities and Temperatures. Astrophysical Journal, 1999, 516, 381-398.	4.5	197
28	Composition of the Innermost Core-collapse Supernova Ejecta. Astrophysical Journal, 2006, 637, 415-426.	4.5	196
29	NEUTRINO-DRIVEN WINDS IN THE AFTERMATH OF A NEUTRON STAR MERGER: NUCLEOSYNTHESIS AND ELECTROMAGNETIC TRANSIENTS. Astrophysical Journal, 2015, 813, 2.	4.5	192
30	s -process production in rotating massive stars at solar and low metallicities. Monthly Notices of the Royal Astronomical Society, 2016, 456, 1803-1825.	4.4	173
31	CHARGED-PARTICLE AND NEUTRON-CAPTURE PROCESSES IN THE HIGH-ENTROPY WIND OF CORE-COLLAPSE SUPERNOVAE. Astrophysical Journal, 2010, 712, 1359-1377.	4.5	168
32	Reaction rates and reaction sequences in the rp -process. Astrophysical Journal, 1994, 432, 326.	4.5	163
33	NUCLEOSYNTHESIS IN TWO-DIMENSIONAL DELAYED DETONATION MODELS OF TYPE Ia SUPERNOVA EXPLOSIONS. Astrophysical Journal, 2010, 712, 624-638.	4.5	158
34	THE ROLE OF FISSION IN NEUTRON STAR MERGERS AND ITS IMPACT ON THE r -PROCESS PEAKS. Astrophysical Journal, 2015, 808, 30.	4.5	156
35	The Role of Electron Captures in Chandrasekhar-mass Models for Type Ia Supernovae. Astrophysical Journal, 2000, 536, 934-947.	4.5	152
36	Galactic evolution of rapid neutron capture process abundances: the inhomogeneous approach. Monthly Notices of the Royal Astronomical Society, 2015, 452, 1970-1981.	4.4	150

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37	R-Process Nucleosynthesis in Supernovae. <i>Physics Today</i> , 2004, 57, 47-53.	0.3	147
38	Explosive nucleosynthesis in SN 1987A. II - Composition, radioactivities, and the neutron star mass. <i>Astrophysical Journal</i> , 1990, 349, 222.	4.5	139
39	Nuclear structure studies for the astrophysical r-process. <i>Nuclear Physics A</i> , 2001, 693, 282-324.	1.5	136
40	CORE-COLLAPSE SUPERNOVA EXPLOSIONS TRIGGERED BY A QUARK-HADRON PHASE TRANSITION DURING THE EARLY POST-BOUNCE PHASE. <i>Astrophysical Journal, Supplement Series</i> , 2011, 194, 39.	7.7	136
41	The Intermediate r-process in Core-collapse Supernovae Driven by the Magneto-rotational Instability. <i>Astrophysical Journal Letters</i> , 2017, 836, L21.	8.3	134
42	Production of heavy elements in inhomogeneous cosmologies. <i>Astrophysical Journal</i> , 1994, 429, 499.	4.5	133
43	Explosive Nucleosynthesis in Hypernovae. <i>Astrophysical Journal</i> , 2001, 555, 880-899.	4.5	133
44	Decay properties of exotic ^{28}S and Cl nuclei and the $\text{Ca}48/46\text{Ca}$ abundance ratio. <i>Physical Review C</i> , 1993, 47, 2941-2953.	2.9	130
45	The hot proton-proton chains in low-metallicity objects. <i>Astrophysical Journal</i> , 1989, 343, 352.	4.5	125
46	Explosive Hydrogen Burning during Type I X-Ray Bursts. <i>Astrophysical Journal, Supplement Series</i> , 2008, 174, 261-276.	7.7	116
47	Accreting white dwarf models for the type I supernovae. IV The optical spectrum of a carbon-deflagration supernova. <i>Astrophysical Journal</i> , 1985, 294, 619.	4.5	116
48	Conformally flat smoothed particle hydrodynamics application to neutron star mergers. <i>Physical Review D</i> , 2002, 65, .	4.7	115
49	Calculations of fission rates for r-process nucleosynthesis. <i>Nuclear Physics A</i> , 2005, 747, 633-654.	1.5	106
50	Nucleosynthesis in Type II Supernovae and the Abundances in Metal-poor Stars. <i>Astrophysical Journal</i> , 1999, 517, 193-208.	4.5	105
51	Silicon Burning. I. Neutronization and the Physics of Quasi-Equilibrium. <i>Astrophysical Journal</i> , 1996, 460, 869.	4.5	105
52	CURRENT QUESTS IN NUCLEAR ASTROPHYSICS AND EXPERIMENTAL APPROACHES. <i>Annual Review of Nuclear and Particle Science</i> , 1998, 48, 175-251.	10.2	104
53	Inelastic neutrino scattering on ^{12}C and ^{16}O above the particle emission threshold. <i>Nuclear Physics A</i> , 1992, 540, 599-620.	1.5	96
54	The Nuclear Reaction Waiting Points: ^{22}Mg , ^{26}Si , ^{30}S , and ^{34}Ar and Bolometrically Double-peaked Type I X-Ray Bursts. <i>Astrophysical Journal</i> , 2004, 608, L61-L64.	4.5	96

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55	Hydrostatic Nucleosynthesis - Part Two - Core Neon to Silicon Burning and Presupernova Abundance Yields of Massive Stars. <i>Astrophysical Journal</i> , 1985, 295, 604.	4.5	96
56	Bridging the waiting points: The role of two-proton capture reactions in therpprocess. <i>Physical Review C</i> , 1995, 51, 392-400.	2.9	93
57	Computational methods for nucleosynthesis and nuclear energy generation. <i>Journal of Computational and Applied Mathematics</i> , 1999, 109, 321-351.	2.0	93
58	Conservative general relativistic radiation hydrodynamics in spherical symmetry and comoving coordinates. <i>Physical Review D</i> , 2001, 63, .	4.7	88
59	Low-lying dipole response in the relativistic quasiparticle time blocking approximation and its influence on neutron capture cross sections. <i>Nuclear Physics A</i> , 2009, 823, 26-37.	1.5	87
60	Nuclear cross sections, nuclear structure and stellar nucleosynthesis. <i>Nuclear Physics A</i> , 2003, 718, 139-146.	1.5	84
61	Late detonation models for the type IA supernovae SN 1991T and SN 1990N. <i>Astrophysical Journal</i> , 1992, 393, L55.	4.5	84
62	Silicon Burning. II. Quasi- ϵ Equilibrium and Explosive Burning. <i>Astrophysical Journal</i> , 1999, 511, 862-875.	4.5	81
63	NUCLEOSYNTHESIS MODES IN THE HIGH-ENTROPY WIND OF TYPE II SUPERNOVAE: COMPARISON OF CALCULATIONS WITH HALO-STAR OBSERVATIONS. <i>Astrophysical Journal</i> , 2009, 694, L49-L53.	4.5	78
64	PUSHing Core-collapse Supernovae to Explosions in Spherical Symmetry. III. Nucleosynthesis Yields. <i>Astrophysical Journal</i> , 2019, 870, 2.	4.5	78
65	Production of Heavy Elements in Inhomogeneous Cosmologies. <i>Graduate Texts in Contemporary Physics</i> , 1991, , 147-177.	0.2	78
66	Hydrostatic nucleosynthesis. I - Core helium and carbon burning.. <i>Astrophysical Journal</i> , 1985, 295, 589.	4.5	76
67	Three-dimensional hydrodynamical simulations of stellar collisions. II - White dwarfs. <i>Astrophysical Journal</i> , 1989, 342, 986.	4.5	75
68	Possible models for the type IA supernova 1990N. <i>Astrophysical Journal</i> , 1992, 386, L13.	4.5	71
69	Radioactive Dating of the Elements. <i>Annual Review of Astronomy and Astrophysics</i> , 1991, 29, 447-497.	24.3	70
70	A full general relativistic neutrino radiation-hydrodynamics simulation of a collapsing very massive star and the formation of a black hole. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2018, 477, L80-L84.	3.3	70
71	Nucleosynthesis in novae - A source of Ne-E and Al-26. <i>Astrophysical Journal</i> , 1982, 255, 617.	4.5	69
72	An Adaptive Grid, Implicit Code for Spherically Symmetric, General Relativistic Hydrodynamics in Comoving Coordinates. <i>Astrophysical Journal, Supplement Series</i> , 2002, 141, 229-246.	7.7	69

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73	Inclusive $^{12}\text{C}(\hat{1}/2\hat{1}/4, \hat{1}/4)^{12}\text{N}$ reaction in the continuum random phase approximation. <i>Physical Review C</i> , 1995, 52, 3437-3441.	2.9	68
74	Equation of State Dependent Dynamics and Multi-messenger Signals from Stellar-mass Black Hole Formation. <i>Astrophysical Journal</i> , 2018, 857, 13.	4.5	68
75	The Reaction Rate Sensitivity of Nucleosynthesis in Type II Supernovae. <i>Astrophysical Journal</i> , 1999, 521, 735-752.	4.5	67
76	PUSHing Core-collapse Supernovae to Explosions in Spherical Symmetry. II. Explodability and Remnant Properties. <i>Astrophysical Journal</i> , 2019, 870, 1.	4.5	65
77	Nuclear structure studies at ISOLDE and their impact on the astrophysical r-process. , 2000, 129, 185-221.		62
78	Synthesis of Al-26 in explosive hydrogen burning. <i>Astrophysical Journal</i> , 1980, 237, 931.	4.5	62
79	TWO-DIMENSIONAL CORE-COLLAPSE SUPERNOVA SIMULATIONS WITH THE ISOTROPIC DIFFUSION SOURCE APPROXIMATION FOR NEUTRINO TRANSPORT. <i>Astrophysical Journal</i> , 2016, 817, 72.	4.5	54
80	Explosive nucleosynthesis and Type I supernovae. <i>Astrophysical Journal</i> , 1984, 279, L23.	4.5	51
81	Capture reactions on C-14 in nonstandard big bang nucleosynthesis. <i>Astrophysical Journal</i> , 1990, 363, 340.	4.5	50
82	GRIPS - Gamma-Ray Imaging, Polarimetry and Spectroscopy. <i>Experimental Astronomy</i> , 2012, 34, 551-582.	3.7	48
83	Core-collapse Supernova Explosions Driven by the Hadron-quark Phase Transition as a Rare r-process Site. <i>Astrophysical Journal</i> , 2020, 894, 9.	4.5	48
84	Astrophysics and nuclei far from stability. <i>Nuclear Physics A</i> , 1994, 570, 329-343.	1.5	45
85	Nucleosynthesis in 2D core-collapse supernovae of 11.2 and 17.0 M_{\odot} progenitors: implications for Mo and Ru production. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2018, 45, 014001.	3.6	43
86	F-17(p, γ)Ne-18 in explosive hydrogen burning. <i>Astrophysical Journal</i> , 1988, 326, 384.	4.5	38
87	The Quasi- β -Equilibrium "reduced $\hat{1}\hat{2}$ Network. <i>Astrophysical Journal</i> , 1998, 503, 332-343.	4.5	34
88	PUSHing Core-collapse Supernovae to Explosions in Spherical Symmetry. IV. Explodability, Remnant Properties, and Nucleosynthesis Yields of Low-metallicity Stars*. <i>Astrophysical Journal</i> , 2020, 888, 91.	4.5	34
89	Convective instabilities in SN 1987A. <i>Astrophysical Journal</i> , 1990, 348, L17.	4.5	34
90	Core-collapse supernovae in the hall of mirrors. <i>Astronomy and Astrophysics</i> , 2018, 619, A118.	5.1	33

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91	Alpha-burning of O-14. <i>Astrophysical Journal</i> , 1987, 316, 162.	4.5	29
92	Nucleosynthesis in Supernovae. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	28
93	An Approximation for the r -Process. <i>Astrophysical Journal</i> , 1997, 484, 412-423.	4.5	28
94	Reaction Rates for ^{146}Sm Production in Supernovae. <i>Astrophysical Journal</i> , 1995, 451, .	4.5	27
95	Stellar Mass Black Hole Formation and Multimessenger Signals from Three-dimensional Rotating Core-collapse Supernova Simulations. <i>Astrophysical Journal</i> , 2021, 914, 140.	4.5	24
96	NUCLEOSYNTHESIS IN CORE-COLLAPSE SUPERNOVA EXPLOSIONS TRIGGERED BY A QUARK-HADRON PHASE TRANSITION. <i>Astrophysical Journal</i> , 2012, 758, 9.	4.5	23
97	Hot third family of compact stars and the possibility of core-collapse supernova explosions. <i>Physical Review D</i> , 2016, 94, .	4.7	22
98	r -Process Sites, their Ejecta Composition, and their Imprint in Galactic Chemical Evolution. <i>Journal of Physics: Conference Series</i> , 2020, 1668, 012044.	0.4	12
99	Towards generating a new supernova equation of state: A systematic analysis of cold hybrid stars. <i>Physical Review D</i> , 2016, 94, .	4.7	11
100	Thermonuclear reactions at high temperatures and densities. , 1987, , 91-101.		10
101	Nuclear Astrophysics and Nuclei Far from Stability. <i>Lecture Notes in Physics</i> , 0, , 383-467.	0.7	9
102	The production of Al-26 in supermassive stars and the gamma-ray line flux from the Galactic center. <i>Astrophysical Journal</i> , 1987, 321, 761.	4.5	9
103	Deep-sea diving for stellar debris. <i>Nature Physics</i> , 2015, 11, 993-994.	16.7	6
104	Chemical evolution, stellar nucleosynthesis, and a variable star formation rate. <i>Astrophysical Journal</i> , 1987, 313, 813.	4.5	6
105	Massive Stars and Their Supernovae. <i>Astrophysics and Space Science Library</i> , 2018, , 173-286.	2.7	5
106	Nuclear astrophysics. <i>Europhysics News</i> , 2001, 32, 224-226.	0.3	4
107	Making the Elements in the Universe. <i>Europhysics News</i> , 2013, 44, 23-26.	0.3	4
108	Explosion Dynamics of Parametrized Spherically Symmetric Core-Collapse Supernova Simulations. , 2017, , .		4

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109	PUSHing Core-Collapse Supernovae to Explosions in Spherical Symmetry: Nucleosynthesis Yields. , 2017, , ,		4
110	The origin of the elements. Physics Today, 2019, 72, 36-37.	0.3	4
111	Explosive Nucleosynthesis in Type I and Type II Supernovae. , 1991, , 609-618.		4
112	Metal-Poor Halo Stars as Tracers of ISM Mixing Processes During Halo Formation. , 0, , 194-198.		3
113	Neutrino Radiation-Hydrodynamics: General Relativistic versus Multidimensional Supernova Simulations. Progress of Theoretical Physics Supplement, 2010, 186, 87-92.	0.1	3
114	Multi-dimensional Core-Collapse Supernova Simulations with Neutrino Transport. , 2017, , ,		3
115	Inhomogeneous Chemical Evolution of \hat{A} r-Process Elements in the Galactic Halo. Springer Proceedings in Physics, 2019, , 91-96.	0.2	3
116	Nucleosynthesis in type I and type II supernovae. Advances in Space Research, 1984, 4, 67-78.	2.6	2
117	New aspects of the QCD phase transition in proto-neutron stars and core-collapse supernovae. Journal of Physics: Conference Series, 2017, 861, 012023.	0.4	2
118	Making the Heaviest Elements in a Rare Class of Supernovae. , 2017, , 1-35.		2
119	Erratum - Explosive Nucleosynthesis and Type-I Supernovae. Astrophysical Journal, 1984, 283, L25.	4.5	2
120	Nucleosynthesis in Supernovae, Hypernovae/Gamma-ray Bursts and Compact Binary Mergers. , 2017, , ,		2
121	Explosive Nucleosynthesis in Carbon Deflagration Models of Type I Supernovae. , 1986, , 131-142.		2
122	Explosive Nucleosynthesis: What We Learned and What We Still Do Not Understand. Springer Proceedings in Physics, 2019, , 125-134.	0.2	2
123	Prediction of astrophysical reaction rates: Methods, data needs, and consequences for nucleosynthesis studies. AIP Conference Proceedings, 2000, , ,	0.4	1
124	Stellar nucleosynthesis and galactic abundances. AIP Conference Proceedings, 2001, , ,	0.4	1
125	On the origin of the cosmic elements and the nuclear history of the universe. Europhysics News, 2016, 47, 15-20.	0.3	1
126	Making the Heaviest Elements in a Rare Class of Supernovae. , 2017, , 1843-1877.		1

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127	Synthesis of Heavy Elements in the Ejecta of Neutron Star Mergers. Journal of Physics: Conference Series, 2018, 940, 012047.	0.4	1
128	Nucleosynthesis for SN 1987A from single-star and binary-merger progenitors. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 084002.	3.6	1
129	Nucleosynthesis in explosions of high metallicity supermassive objects. , 1987, , 233-242.		1
130	Inhomogeneous Chemical Evolution of r-process Elements in the Galactic Halo. , 2017, , .		1
131	Simulation of X-ray Bursts and Superbursts. , 2017, , .		1
132	Die Nobelpreise f¼r Physik 1983. Physik in Unserer Zeit, 1984, 15, 30-32.	0.0	0
133	Supernovae and their Progenitors. Europhysics News, 1985, 16, 5-9.	0.3	0
134	Capture Reactions on 14C in Nonstandard Big Bang Nucleosynthesis. , 1991, , .		0
135	Supernova Nucleosynthesis in Massive Stars. International Astronomical Union Colloquium, 1996, 145, 157-164.	0.1	0
136	Stellar and Nuclear-Physics Constraints on Two r-Process Components in the Early Galaxy. , 0, , 148-149.		0
137	Nuclear Aspects of Stellar and Explosive Nucleosynthesis. , 2002, , 143-152.		0
138	DIVISION VIII / WORKING GROUP SUPERNOVA. Proceedings of the International Astronomical Union, 2008, 4, 295-297.	0.0	0
139	HYPERNOVA NUCLEOSYNTHESIS AND IMPLICATIONS FOR COSMIC CHEMICAL EVOLUTION. , 2001, , 171-173.		0
140	NUCLEOSYNTHESIS IN SUPERNOVAE AND NEUTRON STAR MERGERS. , 2001, , .		0
141	Hauser-Feshbach reaction rates with parity-dependent level densities. , 2009, , .		0
142	Die Entstehung der Atome â€“ Eine Synthese von Mikro- und Makrokosmos. , 2014, , 97-108.		0
143	PERSPECTIVES: NUCLEOSYNTHESIS AND NUCLEAR REACTIONS IN STANDARD AND INHOMOGENEOUS BIG BANG MODELS AND BEYOND. , 1990, , 92-115.		0
144	Nucleosynthesis in Type II Supernovae and Abundance Trends of Iron-Peak Elements in Metal-Poor Stars. Astrophysics and Space Science Library, 1999, , 283-284.	2.7	0

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145	A Systematic Analysis of Hybrid Stars Using a Hadronic Equation of State Suitable for Core-Collapse Supernovae. , 2017, , .		0
146	Nucleosynthesis in 2D Core-Collapse Supernova Long-Term Simulations of 11.2 and 17.0 (M_{\odot}) Progenitors. , 2017, , .		0
147	Nucleosynthesis in Supernovae. Space Sciences Series of ISSI, 2019, , 251-312.	0.0	0
148	Nucleosynthesis in Core-Collapse Supernovae. Springer Proceedings in Physics, 2019, , 99-103.	0.2	0