H-Th Janka

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Dynamical ejecta of neutron star mergers with nucleonic weak processes – II: kilonova emission. Monthly Notices of the Royal Astronomical Society, 2022, 510, 2820-2840.	4.4	26
2	Dynamical ejecta of neutron star mergers with nucleonic weak processes I: nucleosynthesis. Monthly Notices of the Royal Astronomical Society, 2022, 510, 2804-2819.	4.4	39
3	Supernova Fallback as Origin of Neutron Star Spins and Spin-kick Alignment. Astrophysical Journal, 2022, 926, 9.	4.5	37
4	Pulsational pair-instability supernovae: gravitational collapse, black hole formation, and beyond. Monthly Notices of the Royal Astronomical Society, 2022, 512, 4503-4540.	4.4	21
5	Fast neutrino conversion in hydrodynamic simulations of neutrino-cooled accretion disks. Physical Review D, 2022, 105, .	4.7	41
6	Low-Energy Supernovae Severely Constrain Radiative Particle Decays. Physical Review Letters, 2022, 128, .	7.8	48
7	Low-luminosity type IIP supermnovae: SNÂ2005cs and SNÂ2020cxd as very low-energy iron core-collapse explosions. Monthly Notices of the Royal Astronomical Society, 2022, 514, 4173-4189.	4.4	13
8	The fully developed remnant of a neutrino-driven supernova. Astronomy and Astrophysics, 2021, 645, A66.	5.1	40
9	Synthetic observables for electron-capture supernovae and low-mass core collapse supernovae. Monthly Notices of the Royal Astronomical Society, 2021, 503, 797-814.	4.4	14
10	Fission fragment distributions and their impact on the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>r</mml:mi> -process nucleosynthesis in neutron star mergers. Physical Review C, 2021, 103, .</mml:math 	2.9	35
11	Fast neutrino flavor conversions in one-dimensional core-collapse supernova models with and without muon creation. Physical Review D, 2021, 103, .	4.7	41
12	On the characteristics of fast neutrino flavor instabilities in three-dimensional core-collapse supernova models. Physical Review D, 2021, 103, .	4.7	48
13	Gravitational-wave signals from 3D supernova simulations with different neutrino-transport methods. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3552-3567.	4.4	14
14	Stellar Collapse Diversity and the Diffuse Supernova Neutrino Background. Astrophysical Journal, 2021, 909, 169.	4.5	43
15	Self-consistent 3D Supernova Models From â^'7 Minutes to +7 s: A 1-bethe Explosion of a â^1⁄419 M _⊙ Progenitor. Astrophysical Journal, 2021, 915, 28.	4.5	97
16	Supernova 1987A: 3D Mixing and Light Curves for Explosion Models Based on Binary-merger Progenitors. Astrophysical Journal, 2021, 914, 4.	4.5	18
17	The infancy of core-collapse supernova remnants. Monthly Notices of the Royal Astronomical Society, 2021, 502, 3264-3293.	4.4	25
18	Neutrino absorption and other physics dependencies in neutrino-cooled black hole accretion discs. Monthly Notices of the Royal Astronomical Society, 2021, 509, 1377-1412.	4.4	52

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19	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.	4.4	78
20	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.	4.4	21
21	Neutrino emission characteristics of black hole formation in three-dimensional simulations of stellar collapse. Physical Review D, 2020, 101, .	4.7	42
22	How much H and He is â€`hidden' in SNe lb/c? – II. Intermediate-mass objects: a 22 M⊙ progenitor c Monthly Notices of the Royal Astronomical Society, 2020, 499, 730-747.	ase study. 4.4	8
23	Muons in Supernovae: Implications for the Axion-Muon Coupling. Physical Review Letters, 2020, 125, 051104.	7.8	56
24	How to interpret observations of neutron-star mergers?. Journal of Physics: Conference Series, 2020, 1667, 012018.	0.4	0
25	Fast neutrino flavor conversion, ejecta properties, and nucleosynthesis in newly-formed hypermassive remnants of neutron-star mergers. Physical Review D, 2020, 102, .	4.7	57
26	Fast neutrino flavor instability in the neutron-star convection layer of three-dimensional supernova models. Physical Review D, 2020, 101, .	4.7	79
27	Resolution Study for Three-dimensional Supernova Simulations with the Prometheus-Vertex Code. Astrophysical Journal, 2020, 891, 27.	4.5	25
28	The Birth Function for Black Holes and Neutron Stars in Close Binaries. Astrophysical Journal, 2020, 896, 56.	4.5	50
29	Large-scale Mixing in a Violent Oxygen–Neon Shell Merger Prior to a Core-collapse Supernova. Astrophysical Journal, 2020, 890, 94.	4.5	44
30	The Explosion of Helium Stars Evolved with Mass Loss. Astrophysical Journal, 2020, 890, 51.	4.5	121
31	Magnetar formation through a convective dynamo in protoneutron stars. Science Advances, 2020, 6, eaay2732.	10.3	65
32	NS 1987A in SN 1987A. Astrophysical Journal, 2020, 898, 125.	4.5	52
33	Equation-of-state constraints and the QCD phase transition in the era of gravitational-wave astronomy. AIP Conference Proceedings, 2019, , .	0.4	45
34	Three-dimensional mixing and light curves: constraints on the progenitor of supernova 1987A. Astronomy and Astrophysics, 2019, 624, A116.	5.1	32
35	NADA-FLD: a general relativistic, multidimensional neutrino-hydrodynamics code employing flux-limited diffusion. Monthly Notices of the Royal Astronomical Society, 2019, 490, 3545-3572.	4.4	13
36	X-Ray and Gamma-Ray Emission from Core-collapse Supernovae: Comparison of Three-dimensional Neutrino-driven Explosions with SN 1987A. Astrophysical Journal, 2019, 882, 22.	4.5	14

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37	Effects of LESA in Three-dimensional Supernova Simulations with Multidimensional and Ray-by-ray-plus Neutrino Transport. Astrophysical Journal, 2019, 881, 36.	4.5	40
38	Improved leakage-equilibration-absorption scheme (<scp>ileas</scp>) for neutrino physics in compact object mergers. Monthly Notices of the Royal Astronomical Society, 2019, 485, 4754-4789.	4.4	52
39	The ν-process with Fully Time-dependent Supernova Neutrino Emission Spectra. Astrophysical Journal, 2019, 876, 151.	4.5	31
40	Gravitational waves from 3D core-collapse supernova models: The impact of moderate progenitor rotation. Monthly Notices of the Royal Astronomical Society, 2019, 486, 2238-2253.	4.4	69
41	Three-dimensional Core-collapse Supernova Simulations with Multidimensional Neutrino Transport Compared to the Ray-by-ray-plus Approximation. Astrophysical Journal, 2019, 873, 45.	4.5	73
42	J0453+1559: A Neutron Star–White Dwarf Binary from a Thermonuclear Electron-capture Supernova?. Astrophysical Journal Letters, 2019, 886, L20.	8.3	19
43	High Angular Resolution ALMA Images of Dust and Molecules in the SN 1987A Ejecta. Astrophysical Journal, 2019, 886, 51.	4.5	71
44	Effects of the standing accretion-shock instability and the lepton-emission self-sustained asymmetry in the neutrino emission of rotating supernovae. Physical Review D, 2019, 100, .	4.7	21
45	Nucleosynthesis in the Innermost Ejecta of Neutrino-driven Supernova Explosions in Two Dimensions. Astrophysical Journal, 2018, 852, 40.	4.5	128
46	Diffuse supernova neutrino background from extensive core-collapse simulations of 8–100ÂM⊙ progenitors. Monthly Notices of the Royal Astronomical Society, 2018, 475, 1363-1374.	4.4	49
47	Intermediate-mass Elements in Young Supernova Remnants Reveal Neutron Star Kicks by Asymmetric Explosions. Astrophysical Journal, 2018, 856, 18.	4.5	62
48	Rotation-supported Neutrino-driven Supernova Explosions in Three Dimensions and the Critical Luminosity Condition. Astrophysical Journal, 2018, 852, 28.	4.5	107
49	Identifying rotation in SASI-dominated core-collapse supernovae with a neutrino gyroscope. Physical Review D, 2018, 98, .	4.7	21
50	Core-collapse supernova simulations in one and two dimensions: comparison of codes and approximations. Monthly Notices of the Royal Astronomical Society, 2018, 481, 4786-4814.	4.4	58
51	Hydrodynamical Neutron-star Kicks in Electron-capture Supernovae and Implications for the CRAB Supernova. Astrophysical Journal, 2018, 865, 61.	4.5	66
52	Global comparison of core-collapse supernova simulations in spherical symmetry. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 104001.	3.6	108
53	X-Ray Absorption in Young Core-collapse Supernova Remnants. Astrophysical Journal, 2018, 864, 175.	4.5	13
54	The 30 Year Search for the Compact Object in SN 1987A. Astrophysical Journal, 2018, 864, 174.	4.5	34

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55	Emission line models for the lowest mass core-collapse supernovae – I. Case study of a 9 M⊙ one-dimensional neutrino-driven explosion. Monthly Notices of the Royal Astronomical Society, 2018, 475, 277-305.	4.4	36
56	Parallelized Solution Method of the Three-dimensional Gravitational Potential on the Yin–Yang Grid. Astrophysical Journal, 2018, 863, 142.	4.5	4
57	Neutron Star Kicks by the Gravitational Tug-boat Mechanism in Asymmetric Supernova Explosions: Progenitor and Explosion Dependence. Astrophysical Journal, 2017, 837, 84.	4.5	125
58	Production and Distribution of ⁴⁴ Ti and ⁵⁶ Ni in a Three-dimensional Supernova Model Resembling Cassiopeia A. Astrophysical Journal, 2017, 842, 13.	4.5	115
59	Flavor-dependent Neutrino Angular Distribution in Core-collapse Supernovae. Astrophysical Journal, 2017, 839, 132.	4.5	77
60	Light-curve Analysis of Ordinary Type IIP Supernovae Based on Neutrino-driven Explosion Simulations in Three Dimensions. Astrophysical Journal, 2017, 846, 37.	4.5	38
61	Formation of Double Neutron Star Systems. Astrophysical Journal, 2017, 846, 170.	4.5	435
62	Supernova simulations from a 3D progenitor model – Impact of perturbations and evolution of explosion properties. Monthly Notices of the Royal Astronomical Society, 2017, 472, 491-513.	4.4	184
63	Neutron-star Radius Constraints from GW170817 and Future Detections. Astrophysical Journal Letters, 2017, 850, L34.	8.3	469
64	Very Deep inside the SN 1987A Core Ejecta: Molecular Structures Seen in 3D. Astrophysical Journal Letters, 2017, 842, L24.	8.3	39
65	Gravitational wave signals from 3D neutrino hydrodynamics simulations of core-collapse supernovae. Monthly Notices of the Royal Astronomical Society, 2017, 468, 2032-2051.	4.4	112
66	Neutrino-Driven Explosions. , 2017, , 1095-1150.		53
67	Neutrino Emission from Supernovae. , 2017, , 1575-1604.		36
68	Muon Creation in Supernova Matter Facilitates Neutrino-Driven Explosions. Physical Review Letters, 2017, 119, 242702.	7.8	121
69	Imprints of neutrino-pair flavor conversions on nucleosynthesis in ejecta from neutron-star merger remnants. Physical Review D, 2017, 96, .	4.7	74
70	Neutron-Star Implosions as Heavy-Element Sources. Physics Magazine, 2017, 10, .	0.1	0
71	Spatial distribution of radionuclides in 3D models of SN 1987A and Cas A. Proceedings of the International Astronomical Union, 2017, 12, 148-156.	0.0	8
72	Ther-process nucleosynthesis and related challenges. EPJ Web of Conferences, 2017, 165, 01025.	0.3	0

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73	Neutrino-Driven Explosions. , 2017, , 1-56.		4
74	Physics of Core-Collapse Supernovae in Three Dimensions: A Sneak Preview. Annual Review of Nuclear and Particle Science, 2016, 66, 341-375.	10.2	323
75	THE LAST MINUTES OF OXYGEN SHELL BURNING IN A MASSIVE STAR. Astrophysical Journal, 2016, 833, 124.	4.5	107
76	Exploring properties of high-density matter through remnants of neutron-star mergers. European Physical Journal A, 2016, 52, 1.	2.5	101
77	PROGENITOR-DEPENDENT EXPLOSION DYNAMICS IN SELF-CONSISTENT, AXISYMMETRIC SIMULATIONS OF NEUTRINO-DRIVEN CORE-COLLAPSE SUPERNOVAE. Astrophysical Journal, 2016, 825, 6.	4.5	99
78	Impact of nucleon-nucleon bremsstrahlung rates beyond one-pion exchange. Physical Review D, 2016, 94, .	4.7	19
79	Exploring the explosion mechanism of core-collapse supernovae in three dimensions. Proceedings of the International Astronomical Union, 2016, 12, 424-424.	0.0	0
80	Solar r-process-constrained actinide production in neutrino-driven winds of supernovae. Monthly Notices of the Royal Astronomical Society, 2016, 459, 4174-4182.	4.4	24
81	CORE-COLLAPSE SUPERNOVAE FROM 9 TO 120 SOLAR MASSES BASED ON NEUTRINO-POWERED EXPLOSIONS. Astrophysical Journal, 2016, 821, 38.	4.5	771
82	The r-process nucleosynthesis during the decompression of neutron star crust material. Journal of Physics: Conference Series, 2016, 665, 012052.	0.4	2
83	A TWO-PARAMETER CRITERION FOR CLASSIFYING THE EXPLODABILITY OF MASSIVE STARS BY THE NEUTRINO-DRIVEN MECHANISM. Astrophysical Journal, 2016, 818, 124.	4.5	303
84	Neutrino Emission from Supernovae. , 2016, , 1-30.		5
85	NEUTRON-STAR MERGER EJECTA AS OBSTACLES TO NEUTRINO-POWERED JETS OF GAMMA-RAY BURSTS. Astrophysical Journal Letters, 2016, 816, L30.	8.3	119
86	Supernova deleptonization asymmetry: Impact on self-induced flavor conversion. Physical Review D, 2015, 92, .	4.7	11
87	Nuclear robustness of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>r</mml:mi>process in neutron-star mergers. Physical Review C, 2015, 92, .</mml:math 	2.9	124
88	IMPACT OF NEUTRINO FLAVOR OSCILLATIONS ON THE NEUTRINO-DRIVEN WIND NUCLEOSYNTHESIS OF AN ELECTRON-CAPTURE SUPERNOVA. Astrophysical Journal, 2015, 808, 188.	4.5	43
89	Three-dimensional simulations of core-collapse supernovae: from shock revival to shock breakout. Astronomy and Astrophysics, 2015, 577, A48.	5.1	186
90	NEUTRINO-DRIVEN EXPLOSION OF A 20 SOLAR-MASS STAR IN THREE DIMENSIONS ENABLED BY STRANGE-QUARK CONTRIBUTIONS TO NEUTRINO–NUCLEON SCATTERING. Astrophysical Journal Letters, 2015, 808, L42.	8.3	180

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91	Fast-time Variations of Supernova Neutrino Fluxes and Detection Perspectives. Physics Procedia, 2015, 61, 359-365.	1.2	0
92	Impact of weak interactions of free nucleons on the r-process in dynamical ejecta from neutron star mergers. Monthly Notices of the Royal Astronomical Society, 2015, 452, 3894-3904.	4.4	118
93	Non-radial instabilities and progenitor asphericities in core-collapse supernovae. Monthly Notices of the Royal Astronomical Society, 2015, 448, 2141-2174.	4.4	165
94	Supernova 1987A: neutrino-driven explosions in three dimensions and light curves. Astronomy and Astrophysics, 2015, 581, A40.	5.1	47
95	Neutrino viscosity and drag: impact on the magnetorotational instability in protoneutron stars. Monthly Notices of the Royal Astronomical Society, 2015, 447, 3992-4003.	4.4	43
96	Comprehensive nucleosynthesis analysis for ejecta of compact binary mergers. Monthly Notices of the Royal Astronomical Society, 2015, 448, 541-567.	4.4	466
97	NEUTRINO-DRIVEN SUPERNOVA OF A LOW-MASS IRON-CORE PROGENITOR BOOSTED BY THREE-DIMENSIONAL TURBULENT CONVECTION. Astrophysical Journal Letters, 2015, 801, L24.	8.3	188
98	A new multidimensional, energy-dependent two-moment transport code for neutrino-hydrodynamics. Monthly Notices of the Royal Astronomical Society, 2015, 453, 3387-3414.	4.4	107
99	NUCLEOSYNTHESIS CONSTRAINTS ON THE NEUTRON STAR-BLACK HOLE MERGER RATE. Astrophysical Journal Letters, 2014, 795, L9.	8.3	51
100	SELF-SUSTAINED ASYMMETRY OF LEPTON-NUMBER EMISSION: A NEW PHENOMENON DURING THE SUPERNOVA SHOCK-ACCRETION PHASE IN THREE DIMENSIONS. Astrophysical Journal, 2014, 792, 96.	4.5	152
101	Characterizing SASI- and convection-dominated core-collapse supernova explosions in two dimensions. Monthly Notices of the Royal Astronomical Society, 2014, 440, 2763-2780.	4.4	57
102	Prospects for high frequency burst searches following binary neutron star coalescence with advanced gravitational wave detectors. Physical Review D, 2014, 90, .	4.7	70
103	Neutrino emission characteristics and detection opportunities based on three-dimensional supernova simulations. Physical Review D, 2014, 90, .	4.7	114
104	Revealing the high-density equation of state through binary neutron star mergers. Physical Review D, 2014, 90, .	4.7	110
105	A NEW MULTI-DIMENSIONAL GENERAL RELATIVISTIC NEUTRINO HYDRODYNAMICS CODE FOR CORE-COLLAPSE SUPERNOVAE. IV. THE NEUTRINO SIGNAL. Astrophysical Journal, 2014, 788, 82.	4.5	66
106	New Fission Fragment Distributions and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>r</mml:mi>-Process Origin of the Rare-Earth Elements. Physical Review Letters, 2013, 111, 242502</mml:math 	7.8	141
107	Natal kicks of stellar mass black holes by asymmetric mass ejection in fallback supernovae. Monthly Notices of the Royal Astronomical Society, 2013, 434, 1355-1361.	4.4	117
108	A NEW MULTI-DIMENSIONAL GENERAL RELATIVISTIC NEUTRINO HYDRODYNAMICS CODE OF CORE-COLLAPSE SUPERNOVAE. III. GRAVITATIONAL WAVE SIGNALS FROM SUPERNOVA EXPLOSION MODELS. Astrophysical Journal, 2013, 766, 43.	4.5	190

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109	SYSTEMATICS OF DYNAMICAL MASS EJECTION, NUCLEOSYNTHESIS, AND RADIOACTIVELY POWERED ELECTROMAGNETIC SIGNALS FROM NEUTRON-STAR MERGERS. Astrophysical Journal, 2013, 773, 78.	4.5	456
110	ELECTRON-CAPTURE SUPERNOVAE AS ORIGIN OF ⁴⁸ Ca. Astrophysical Journal Letters, 2013, 767, L26.	8.3	61
111	ELECTRON-CAPTURE SUPERNOVAE AS SOURCES OF ⁶⁰ Fe. Astrophysical Journal Letters, 2013, 774, L6.	8.3	53
112	Neutrino Signature of Supernova Hydrodynamical Instabilities in Three Dimensions. Physical Review Letters, 2013, 111, 121104.	7.8	88
113	Prompt Merger Collapse and the Maximum Mass of Neutron Stars. Physical Review Letters, 2013, 111, 131101.	7.8	203
114	SASI ACTIVITY IN THREE-DIMENSIONAL NEUTRINO-HYDRODYNAMICS SIMULATIONS OF SUPERNOVA CORES. Astrophysical Journal, 2013, 770, 66.	4.5	194
115	Three-dimensional neutrino-driven supernovae: Neutron star kicks, spins, and asymmetric ejection of nucleosynthesis products. Astronomy and Astrophysics, 2013, 552, A126.	5.1	201
116	Impact of eV-mass sterile neutrinos on neutrino-driven supernova outflows. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 013-013.	5.4	54
117	Fast time variations of supernova neutrino signals from 3-dimensional models. Physical Review D, 2012, 86, .	4.7	29
118	Measuring Neutron-Star Properties via Gravitational Waves from Neutron-Star Mergers. Physical Review Letters, 2012, 108, 011101.	7.8	264
119	Core-collapse supernovae: Reflections and directions. Progress of Theoretical and Experimental Physics, 2012, 2012, .	6.6	112
120	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.	4.5	136
121	PROGENITOR-EXPLOSION CONNECTION AND REMNANT BIRTH MASSES FOR NEUTRINO-DRIVEN SUPERNOVAE OF IRON-CORE PROGENITORS. Astrophysical Journal, 2012, 757, 69.	4.5	366
122	The <i>r</i> -PROCESS IN THE NEUTRINO-DRIVEN WIND FROM A BLACK-HOLE TORUS. Astrophysical Journal, 2012, 746, 180.	4.5	77
123	IS STRONG SASI ACTIVITY THE KEY TO SUCCESSFUL NEUTRINO-DRIVEN SUPERNOVA EXPLOSIONS?. Astrophysical Journal, 2012, 755, 138.	4.5	174
124	Equation-of-state dependence of the gravitational-wave signal from the ring-down phase of neutron-star mergers. Physical Review D, 2012, 86, .	4.7	197
125	Explosion Mechanisms of Core-Collapse Supernovae. Annual Review of Nuclear and Particle Science, 2012, 62, 407-451.	10.2	849
126	Supernova neutrino halo and the suppression of self-induced flavor conversion. Physical Review D, 2012, 85, .	4.7	68

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-	127	Suppression of Self-Induced Flavor Conversion in the Supernova Accretion Phase. Physical Review Letters, 2012, 108, 061101.	7.8	72
	128	High-resolution supernova neutrino spectra represented by a simple fit. Physical Review D, 2012, 86, .	4.7	116
	129	Parametrized 3D models of neutrino-driven supernova explosions. Astronomy and Astrophysics, 2012, 537, A63.	5.1	94
	130	A NEW MULTI-DIMENSIONAL GENERAL RELATIVISTIC NEUTRINO HYDRODYNAMICS CODE FOR CORE-COLLAPSE SUPERNOVAE. II. RELATIVISTIC EXPLOSION MODELS OF CORE-COLLAPSE SUPERNOVAE. Astrophysical Journal, 2012, 756, 84.	4.5	182
	131	The next-generation liquid-scintillator neutrino observatory LENA. Astroparticle Physics, 2012, 35, 685-732.	4.3	181
	132	<i>r</i> -PROCESS NUCLEOSYNTHESIS IN DYNAMICALLY EJECTED MATTER OF NEUTRON STAR MERGERS. Astrophysical Journal Letters, 2011, 738, L32.	8.3	390
	133	Nucleosynthesis-relevant conditions in neutrino-driven supernova outflows. Astronomy and Astrophysics, 2011, 526, A160.	5.1	42
	134	UNCERTAINTIES IN THE ν <i>p</i> PROCESS: SUPERNOVA DYNAMICS VERSUS NUCLEAR PHYSICS. Astrophysical Journal, 2011, 729, 46.	4.5	108
	135	ELECTRON-CAPTURE SUPERNOVAE AS THE ORIGIN OF ELEMENTS BEYOND IRON. Astrophysical Journal Letters, 2011, 726, L15.	8.3	220
:	136	A NEW MULTI-DIMENSIONAL GENERAL RELATIVISTIC NEUTRINO HYDRODYNAMIC CODE FOR CORE-COLLAPSE SUPERNOVAE. I. METHOD AND CODE TESTS IN SPHERICAL SYMMETRY. Astrophysical Journal, Supplement Series, 2010, 189, 104-133.	7.7	173
	137	THREE-DIMENSIONAL SIMULATIONS OF MIXING INSTABILITIES IN SUPERNOVA EXPLOSIONS. Astrophysical Journal, 2010, 714, 1371-1385.	4.5	184
	138	HYDRODYNAMICAL NEUTRON STAR KICKS IN THREE DIMENSIONS. Astrophysical Journal Letters, 2010, 725, L106-L110.	8.3	100
	139	Fast time variations of supernova neutrino fluxes and their detectability. Physical Review D, 2010, 82, .	4.7	65
	140	Neutrino Signal of Electron-Capture Supernovae from Core Collapse to Cooling. Physical Review Letters, 2010, 104, 251101.	7.8	326
	141	Axisymmetric general relativistic simulations of the accretion-induced collapse of white dwarfs. Physical Review D, 2010, 81, .	4.7	48
	142	Testing approximations of thermal effects in neutron star merger simulations. Physical Review D, 2010, 82, .	4.7	182
	143	The SuperN-Project: Current Advances in Understanding Core Collapse Supernovae. , 2010, , 17-32.		0
	144	3D Simulations of Large-Scale Mixing in Core Collapse Supernova Explosions. , 2010, , 335-346.		0

3D Simulations of Large-Scale Mixing in Core Collapse Supernova Explosions. , 2010, , 335-346. 144

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145	NUCLEOSYNTHESIS IN ELECTRON CAPTURE SUPERNOVAE OF ASYMPTOTIC GIANT BRANCH STARS. Astrophysical Journal, 2009, 695, 208-220.	4.5	143
146	Equation-of-state dependent features in shock-oscillation modulated neutrino and gravitational-wave signals from supernovae. Astronomy and Astrophysics, 2009, 496, 475-494.	5.1	151
147	DELAYED NEUTRINO-DRIVEN SUPERNOVA EXPLOSIONS AIDED BY THE STANDING ACCRETION-SHOCK INSTABILITY. Astrophysical Journal, 2009, 694, 664-696.	4.5	348
148	On the dynamics of proto-neutron star winds and r-process nucleosynthesis. Astronomy and Astrophysics, 2009, 494, 829-844.	5.1	55
149	Effects of Inelastic Neutrino-Nucleus Scattering on Supernova Dynamics and Radiated Neutrino Spectra. Physical Review Letters, 2008, 100, 011101.	7.8	84
150	Gravitational wave burst signal from core collapse of rotating stars. Physical Review D, 2008, 78, .	4.7	162
151	Influence of light nuclei on neutrino-driven supernova outflows. Physical Review C, 2008, 78, .	2.9	88
152	<i>r</i> -Process Nucleosynthesis in Hot Accretion Disk Flows from Black Hole-Neutron Star Mergers. Astrophysical Journal, 2008, 679, L117-L120.	4.5	164
153	Nucleosynthesis in O-Ne-Mg Supernovae. Astrophysical Journal, 2008, 676, L127-L130.	4.5	39
154	Multidimensional supernova simulations with approximative neutrino transport. Astronomy and Astrophysics, 2008, 477, 931-952.	5.1	166
155	Dynamics of shock propagation and nucleosynthesis conditions in O-Ne-Mg core supernovae. Astronomy and Astrophysics, 2008, 485, 199-208.	5.1	93
156	Rotating collapse of stellar iron cores in general relativity. Classical and Quantum Gravity, 2007, 24, S139-S154.	4.0	62
157	Generic Gravitational-Wave Signals from the Collapse of Rotating Stellar Cores. Physical Review Letters, 2007, 98, 251101.	7.8	94
158	3D Collapse of Rotating Stellar Iron Cores in General Relativity Including Deleptonization and a Nuclear Equation of State. Physical Review Letters, 2007, 98, 261101.	7.8	128
159	Nucleosynthesis-relevant conditions in neutrino-driven supernova outflows. Astronomy and Astrophysics, 2007, 467, 1227-1248.	5.1	189
160	Relativistic neutron star merger simulations with non-zero temperature equations of state. Astronomy and Astrophysics, 2007, 467, 395-409.	5.1	208
161	Neutrino pair annihilation near accreting, stellar-mass black holes. Astronomy and Astrophysics, 2007, 463, 51-67.	5.1	92
162	Theory of core-collapse supernovae. Physics Reports, 2007, 442, 38-74.	25.6	665

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163	Two-dimensional hydrodynamic core-collapse supernova simulations with spectral neutrino transport. Astronomy and Astrophysics, 2006, 447, 1049-1092.	5.1	343
164	Exploring the relativistic regime with Newtonian hydrodynamics: an improved effective gravitational potential for supernova simulations. Astronomy and Astrophysics, 2006, 445, 273-289.	5.1	198
165	Non-spherical core collapse supernovae. Astronomy and Astrophysics, 2006, 453, 661-678.	5.1	176
166	Multidimensional supernova simulations with approximative neutrino transport. Astronomy and Astrophysics, 2006, 457, 963-986.	5.1	284
167	Two-dimensional hydrodynamic core-collapse supernova simulations with spectral neutrino transport. Astronomy and Astrophysics, 2006, 457, 281-308.	5.1	240
168	Three-dimensional simulations of non-stationary accretion by remnant black holes of compact object mergers. Astronomy and Astrophysics, 2006, 458, 553-567.	5.1	66
169	Explosions of O-Ne-Mg cores, the Crab supernova, and subluminous type II-P supernovae. Astronomy and Astrophysics, 2006, 450, 345-350.	5.1	444
170	The r-process nucleosynthesis: a continued challenge for nuclear physics and astrophysics. Nuclear Physics A, 2005, 758, 587-594.	1.5	66
171	Core-Collapse Supernovae at the Threshold. International Astronomical Union Colloquium, 2005, 192, 253-262.	0.1	3
172	Exploiting the neutronization burst of a galactic supernova. Physical Review D, 2005, 71, .	4.7	99
173	Relativistic outflows from remnants of compact object mergers and their viability for short gamma-ray bursts. Astronomy and Astrophysics, 2005, 436, 273-311.	5.1	206
174	On ion-ion correlation effects during stellar core collapse. Astronomy and Astrophysics, 2005, 443, 201-210.	5.1	36
175	Pulsar Recoil by Large-Scale Anisotropies in Supernova Explosions. Physical Review Letters, 2004, 92, 011103.	7.8	200
176	Non-stationary hyperaccretion of stellar-mass black holes in three dimensions: torus evolution and neutrino emission. Monthly Notices of the Royal Astronomical Society, 2004, 352, 753-758.	4.4	78
177	Electron Capture Rates on Nuclei and Implications for Stellar Core Collapse. Physical Review Letters, 2003, 90, 241102.	7.8	240
178	Non-spherical core collapse supernovae. Astronomy and Astrophysics, 2003, 408, 621-649.	5.1	260
179	ASTRONOMY: The Secrets Behind Supernovae. Science, 2002, 297, 1134-1135.	12.6	3
180	Radiation hydrodynamics with neutrinos. Astronomy and Astrophysics, 2002, 396, 361-392.	5.1	315

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#	Article	IF	CITATIONS
181	Conditions for shock revival by neutrino heating in core-collapse supernovae. Astronomy and Astrophysics, 2001, 368, 527-560.	5.1	221
182	Coalescing neutron stars -A step towards physical models. Astronomy and Astrophysics, 2001, 380, 544-577.	5.1	112
183	Nucleosynthesis and Clump Formation in a Core-Collapse Supernova. Astrophysical Journal, 2000, 531, L123-L126.	4.5	136
184	Spherically Symmetric Simulation with Boltzmann Neutrino Transport of Core Collapse and Postbounce Evolution of a 15 [ITAL]M[/ITAL][TINF]⊙[/TINF] Star. Astrophysical Journal, 2000, 539, L33-L36.	4.5	235
185	Black Hole–Neutron Star Mergers as Central Engines of Gamma-Ray Bursts. Astrophysical Journal, 1999, 527, L39-L42.	4.5	202
186	Ledoux Convection in Protoneutron Stars—A Clue to Supernova Nucleosynthesis?. Astrophysical Journal, 1996, 473, L111-L114.	4.5	161
187	Neutrino-driven Type-II supernova explosions and the role of convection. Physics Reports, 1995, 256, 135-156.	25.6	12
188	When do supernova neutrinos of different flavors have similar luminosities but different spectra?. Astroparticle Physics, 1995, 3, 377-383.	4.3	31
189	The First Second of a Type II Supernova: Convection, Accretion, and Shock Propagation. Astrophysical Journal, 1995, 448, .	4.5	101