

# Gabriel MartÃ- nez-Pinedo

## List of Publications by Year in descending order

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284  
papers

16,244  
citations

15504

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17592

121  
g-index

290  
all docs

290  
docs citations

290  
times ranked

6532  
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-consistent description of high-spin states in doubly magic $Pb$ . Physical Review C, 2022, 105, .	2.9	1
2	Structure Calculations in Nd III and U III Relevant for Kilonovae Modelling. Atoms, 2022, 10, 18.	1.6	7
3	Forbidden electron capture on $Na$ and $Al$ in degenerate oxygen-neon stellar cores. Physical Review C, 2022, 105, .	2.9	3
4	Beyond-mean-field calculations of allowed and first-forbidden $i^2$ decays of $r$ -process waiting-point nuclei. EPJ Web of Conferences, 2022, 260, 03002.	0.3	1
5	Shell Model Applications in Nuclear Astrophysics. Physics, 2022, 4, 677-689.	1.4	6
6	Role of low-lying resonances for the $Be$ $p$ reaction rate and implications for the formation of the Solar System. Physical Review C, 2022, 106, .	2.9	5
7	Origin of the heaviest elements: The rapid neutron-capture process. Reviews of Modern Physics, 2021, 93, .	45.6	326
8	Electron capture in stars. Reports on Progress in Physics, 2021, 84, 066301.	20.1	37
9	Fission and the $r$ -process nucleosynthesis of translead nuclei in neutron star mergers. Physical Review C, 2020, 102, .	1.9	32
10	Medium modifications for light and heavy nuclear clusters in simulations of core collapse supernovae: Impact on equation of state and weak interactions. Physical Review C, 2020, 102, .	2.9	10
11	Muonization of supernova matter. Physical Review D, 2020, 102, .	4.7	25
12	Survey of nuclear pasta in the intermediate-density regime: Structure functions for neutrino scattering. Physical Review C, 2020, 101, .	2.9	10
13	Charged-current muonic reactions in core-collapse supernovae. Physical Review D, 2020, 102, .	4.7	28
14	Core-collapse Supernova Explosions Driven by the Hadron-quark Phase Transition as a Rare $r$ -process Site. Astrophysical Journal, 2020, 894, 9.	4.5	48
15	Neutrino signal from proto-neutron star evolution: Effects of opacities from charged-current neutrino interactions and inverse neutron decay. Physical Review C, 2020, 101, .	2.9	41
16	Unblocking of stellar electron capture for neutron-rich $N$ nuclei at finite temperature. Physical Review C, 2020, 101, .	2.9	50
17	Mass measurements of neutron-rich gallium isotopes refine production of nuclei of the first $r$ -process abundance peak in neutron-star merger calculations. Physical Review C, 2020, 101, .	2.9	15
18	Neutrino-nucleus reactions and their role in supernova nucleosynthesis. Journal of Physics: Conference Series, 2020, 1643, 012024.	0.4	1

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19	Finding the Remnants of the Milky Way's Last Neutron Star Mergers. <i>Astrophysical Journal</i> , 2019, 880, 23.	4.5	26
20	Self-consistent calculation of the reactor antineutrino spectra including forbidden transitions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2019, 46, 085103.	3.6	7
21	Improved axion emissivity from a supernova via nucleon-nucleon bremsstrahlung. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 016-016.	5.4	129
22	Survey of nuclear pasta in the intermediate-density regime: Shapes and energies. <i>Physical Review C</i> , 2019, 100, .	2.9	20
23	The $\hat{\nu}$ <sub>1/2</sub> -process with Fully Time-dependent Supernova Neutrino Emission Spectra. <i>Astrophysical Journal</i> , 2019, 876, 151.	4.5	31
24	Fingerprints of Heavy-Element Nucleosynthesis in the Late-Time Lightcurves of Kilonovae. <i>Physical Review Letters</i> , 2019, 122, 062701.	7.8	84
25	The role of giant resonances in nuclear astrophysics: An overview. <i>European Physical Journal A</i> , 2019, 55, 1.	2.5	2
26	Measurement of the $\beta$ -decay ground-state transition in the $^{12}\text{C}$ nucleus. <i>Physical Review C</i> , 2019, 100, .	2.9	19
27	Measurement of the $\beta$ -decay transition of $^{12}\text{C}$ to $^{12}\text{B}$ . <i>Physical Review C</i> , 2019, 100, .	7.8	36
28	Chiral Effective Field Theory Description of Neutrino Nucleon–Nucleon Bremsstrahlung in Supernova Matter. <i>Astrophysical Journal</i> , 2019, 887, 58.	4.5	8
29	Impact of Neutrino Opacities on Core-collapse Supernova Simulations. <i>Astrophysical Journal</i> , 2018, 853, 170.	4.5	60
30	Mass measurements of neutron-deficient Y, Zr, and Nb isotopes and their impact on rp and $\hat{\nu}$ <sub>1/2</sub> p nucleosynthesis processes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 781, 358-363.	4.1	28
31	Fission properties of superheavy nuclei for $r$ -process calculations. <i>Physical Review C</i> , 2018, 97, .	2.9	72
32	Skyrme-RPA study of charged-current neutrino opacity in hot and dense supernova matter. <i>EPJ Web of Conferences</i> , 2018, 194, 02006.	0.3	4
33	Role of nuclear reactions on stellar evolution of intermediate-mass stars. <i>Journal of Physics: Conference Series</i> , 2018, 940, 012050.	0.4	0
34	Neutrino-nucleus reactions and their role in supernova dynamics and nucleosynthesis. <i>Journal of Physics: Conference Series</i> , 2018, 940, 012002.	0.4	1
35	The $\hat{\nu}$ <sub>1/2</sub> -Process in the Light of an Improved Understanding of Supernova Neutrino Spectra. <i>Astrophysical Journal</i> , 2018, 865, 143.	4.5	49
36	Neutrino nucleosynthesis in core-collapse Supernova explosions. <i>Journal of Physics: Conference Series</i> , 2018, 940, 012054.	0.4	2

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37	Microscopic description of fission properties for r-process nuclei. Journal of Physics: Conference Series, 2018, 940, 012013.	0.4	2
38	Detectability of compact binary merger macronovae. Classical and Quantum Gravity, 2017, 34, 104001.	4.0	126
39	Beta-Delayed Neutron Emission in Neutron-Rich Nuclei. , 2017, , .		0
40	Determination of the neutron-capture rate of C17 for r -process nucleosynthesis. Physical Review C, 2017, 95, .	2.9	10
41	Neutrino-nucleus reactions and their role in supernova dynamics and nucleosynthesis. AIP Conference Proceedings, 2017, , .	0.4	0
42	Neutrinos and Their Impact on Core-Collapse Supernova Nucleosynthesis. , 2017, , 1805-1841.		8
43	Muon Creation in Supernova Matter Facilitates Neutrino-Driven Explosions. Physical Review Letters, 2017, 119, 242702.	7.8	121
44	The State of Matter in Simulations of Core-Collapse supernovaeâ€”Reflections and Recent Developments. Publications of the Astronomical Society of Australia, 2017, 34, .	3.4	30
45	SNe Ia Keep Memory of Their Progenitor Metallicity. Astrophysical Journal Letters, 2017, 836, L9.	8.3	19
46	r-process Calculations with a Microscopic Description of the Fission Process. Acta Physica Polonica B, 2017, 48, 299.	0.8	1
47	Microscopic Calculations of $\beta$ -decay Rates for r-process. Acta Physica Polonica B, 2017, 48, 641.	0.8	2
48	Neutrino Induced Nucleosynthesis of Radioactive Nuclei in Core-Collapse Supernovae. , 2017, , .		0
49	Neutrino-Nucleon Interactions in Supernova: Hartree Response & Approximations. , 2017, , .		0
50	Expected impact from weak reactions with light nuclei in core-collapse supernova simulations. EPJ Web of Conferences, 2016, 109, 06002.	0.3	21
51	Neutrino nucleosynthesis in core-collapse Supernova explosions. EPJ Web of Conferences, 2016, 109, 06004.	0.3	5
52	Early protoneutron star deleptonization - consistent modeling of weak processes and equation of state. Journal of Physics: Conference Series, 2016, 665, 012069.	0.4	2
53	Approaching the precursor nuclei of the third r-process peak with RIBs. Journal of Physics: Conference Series, 2016, 665, 012045.	0.4	3
54	The role of fission on neutron star mergers and its impact on the r-process peaks. AIP Conference Proceedings, 2016, , .	0.4	0

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55	Beta decay rates of neutron-rich nuclei. AIP Conference Proceedings, 2016, , .	0.4	1
56	Linking neutrino oscillations to the nucleosynthesis of elements. EPJ Web of Conferences, 2016, 109, 06005.	0.3	7
57	On the robustness of the r-process in neutron-star mergers against variations of nuclear masses. Journal of Physics: Conference Series, 2016, 730, 012018.	0.4	3
58	The Impact of Fission on R-Process Calculations. Journal of Physics: Conference Series, 2016, 665, 012054.	0.4	12
59	First direct mass measurements of stored neutron-rich $^{129,130,131}\text{Cd}$ isotopes with FRS-ESR. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 754, 288-293.	4.1	22
60	Thermal quasiparticle random-phase approximation with Skyrme interactions and supernova neutral-current neutrino-nucleus reactions. Physical Review C, 2016, 94, .	2.9	19
61	Testing the importance of collective correlations in neutrinoless $\beta\beta$ decays. Physical Review C, 2016, 93, .	2.9	19
62	Magnetic dipole excitations of $^{50}\text{Cr}$ . Physical Review C, 2016, 93, .	2.9	25
63	Large-scale evaluation of $r$ -process nuclei decay rates. Physical Review C, 2016, 94, .	2.9	210
64	First Measurement of Several $\beta\beta$ -Delayed Neutron Emitting Isotopes Beyond $^{126}\text{N}$ . Physical Review Letters, 2016, 117, 012501.	7.8	47
65	Production of the entire range of $r$ -process nuclides by black hole accretion disc outflows from neutron star mergers. Monthly Notices of the Royal Astronomical Society, 2016, 463, 2323-2334.	4.4	147
66	RADIOACTIVITY AND THERMALIZATION IN THE EJECTA OF COMPACT OBJECT MERGERS AND THEIR IMPACT ON KILONOVA LIGHT CURVES. Astrophysical Journal, 2016, 829, 110.	4.5	243
67	Systematic study of infrared energy corrections in truncated oscillator spaces with Gogny energy density functionals. Physical Review C, 2016, 94, .	2.9	7
68	The role of neutrino-nucleus reactions in supernova dynamics and nucleosynthesis. Journal of Physics: Conference Series, 2016, 703, 012008.	0.4	0
69	Neutrinos and Their Impact on Core-Collapse Supernova Nucleosynthesis. , 2016, , 1-37.		3
70	Two-hole structure outside $^{78}\text{Ni}$ : Existence of a $\beta\beta$ -isomer of $^{74}\text{Co}$ . Physical Review C, 2015, 92, .	2.9	18
71	Nuclear robustness of the $r$ -process in neutron-star mergers. Physical Review C, 2015, 92, .	2.9	124
72	Recent progress and some open questions in nuclear astrophysics. Physica Scripta, 2015, T166, 014001.	2.5	3

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73	Beta decay rates of neutron-rich nuclei. AIP Conference Proceedings, 2015, , .	0.4	0
74	Shell model studies for nuclear astrophysics. Journal of Physics: Conference Series, 2015, 580, 012033.	0.4	1
75	The production of transuranium elements by the r-process nucleosynthesis. Nuclear Physics A, 2015, 944, 158-176.	1.5	42
76	Toward global beyond-mean-field calculations of nuclear masses and low-energy spectra. Physical Review C, 2015, 91, .	2.9	34
77	Separation of the parity doublet in $^{20}\text{Ne}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 341, 100-100.	4.7	64
78	Effects of neutrino oscillations on nucleosynthesis and neutrino signals for an $18M_{\odot}$ model. Physical Review D, 2015, 91, .	4.7	64
79	THE ROLE OF FISSION IN NEUTRON STAR MERGERS AND ITS IMPACT ON THE $r$ -PROCESS PEAKS. Astrophysical Journal, 2015, 808, 30.	4.5	156
80	Neutrino nucleus reactions and their role for supernova dynamics and nucleosynthesis. Progress in Particle and Nuclear Physics, 2015, 85, 33-81.	14.4	66
81	CHARGED CURRENT INTERACTIONS OF NUMU NEUTRINOS IN SUPERNOVA. , 2015, , .		1
82	Electron capture processes in intermediate mass stars. , 2015, , .		0
83	Astrophysical weak-interaction rates for selected $A < 20$ nuclei. Physical Review C, 2014, 89, .	2.9	59
84	Impact of active-sterile neutrino mixing on supernova explosion and nucleosynthesis. Physical Review D, 2014, 89, .	4.7	55
85	X-ray decay lines from heavy nuclei in supernova remnants as a probe of the r-process origin and the birth periods of magnetars. Monthly Notices of the Royal Astronomical Society, 2014, 438, 3243-3254.	4.4	7
86	Supernova neutrinos and nucleosynthesis. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 044008.	3.6	57
87	Correlations and neutrinoless nuclear matrix elements of $p$ nuclei. Physical Review C, 2014, 90, .	2.9	30
88	Beta-decay half-lives of new neutron-rich isotopes of Re, Os and Ir approaching the r-process path near $N = 126$ . European Physical Journal A, 2014, 50, 1.	2.5	22
89	The role of electron capture in core-collapse supernovae. Nuclear Physics A, 2014, 928, 305-312.	1.5	14
90	Properties of neutrinoless double beta decay nuclear matrix elements studied along isotopic chains. EPJ Web of Conferences, 2014, 66, 08006.	0.3	0

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91	Electron Capture and Beta-Decay Rates for the Collapse of O+Ne+Mg Cores. EPJ Web of Conferences, 2014, 66, 07011.	0.3	3
92	Influence of spontaneous fission rates on the yields of superheavy elements in the r-process. Astronomy Letters, 2013, 39, 150-160.	1.0	23
93	Neutrinoless $\hat{I}^2\hat{I}^2$ decay nuclear matrix elements in an isotopic chain. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 174-178.	4.1	29
94	ADVANCED BURNING STAGES AND FATE OF 8-10 $M_{\odot}$ STARS. Astrophysical Journal, 2013, 772, 150.	4.5	155
95	Neutrino-pair emission from nuclear de-excitation in core-collapse supernova simulations. Physical Review C, 2013, 88, .	2.9	36
96	Shell-model half-lives including first-forbidden contributions for $r$ -process waiting-point nuclei. Physical Review C, 2013, 87, .	2.9	136
97	Pairing in Heated Nuclei in the Shell Model Monte Carlo Approach. , 2013, , 154-168.		0
98	Selected topics in nuclear astrophysics. , 2013, , .		0
99	Application of nuclear density functionals to lepton number violating weak processes. , 2012, , .		0
100	Role of momentum transfer in the quenching of the Gamow-Teller strength. , 2012, , .		0
101	Challenges in explosive nucleosynthesis of heavy elements. , 2012, , .		0
102	Sensitivity study of explosive nucleosynthesis in type Ia supernovae: Modification of individual thermonuclear reaction rates. Physical Review C, 2012, 85, .	2.9	56
103	Role of momentum transfer in the quenching of Gamow-Teller strength. Physical Review C, 2012, 85, .	2.9	12
104	Calculation of nuclear matrix elements in neutrinoless double electron capture. Physical Review C, 2012, 85, .	2.9	20
105	Charged-Current Weak Interaction Processes in Hot and Dense Matter and its Impact on the Spectra of Neutrinos Emitted from Protoneutron Star Cooling. Physical Review Letters, 2012, 109, 251104.	7.8	165
106	Fission properties for $r$ -process nuclei. Physical Review C, 2012, 85, .	2.9	88
107	Neutrino spectra evolution during protoneutron star deleptonization. Physical Review D, 2012, 85, .	4.7	88
108	High-resolution study of Gamow-Teller transitions with the $^{37}\text{Cl}(^3\text{He},t)^{37}\text{Ar}$ reaction. Physical Review C, 2012, 86, .	2.9	12



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109	Approaching r-process nuclei at $N = 126$ . Journal of Physics: Conference Series, 2012, 337, 012070.	0.4	7
110	IMPACT OF SUPERNOVA DYNAMICS ON THE $\hat{1}/2$ p-PROCESS. Astrophysical Journal, 2012, 750, 18.	4.5	33
111	Charged-current weak interaction processes and its impact on proto-neutron star cooling and nucleosynthesis. Journal of Physics: Conference Series, 2012, 403, 012037.	0.4	1
112	Have superheavy elements been produced in nature?. European Physical Journal A, 2012, 48, 1.	2.5	74
113	Qvalue and half-life of double-electron capture in $184\text{Os}$ . Physical Review C, 2012, 86, .	2.9	16
114	NUCLEOSYNTHESIS IN CORE-COLLAPSE SUPERNOVA EXPLOSIONS TRIGGERED BY A QUARK-HADRON PHASE TRANSITION. Astrophysical Journal, 2012, 758, 9.	4.5	23
115	Core collapse supernovae in the QCD phase diagram. Physics of Atomic Nuclei, 2012, 75, 613-620.	0.4	12
116	M1 strength functions from large-scale shell-model calculations and their effect on astrophysical neutron capture cross-sections. European Physical Journal A, 2012, 48, 1.	2.5	31
117	s-process stellar enhancement factors obtained within the statistical model with parity-dependent level densities. European Physical Journal A, 2011, 47, 1.	2.5	3
118	Effect of collective neutrino flavor oscillations on $\hat{1}/2$ p-process nucleosynthesis. European Physical Journal A, 2011, 47, 1.	2.5	26
119	The $76\text{Se}$ Gamowâ€™Teller strength distribution and its importance for stellar electron capture rates. Nuclear Physics A, 2011, 859, 172-184.	1.5	30
120	Nuclear quests for supernova dynamics and nucleosynthesis. Progress in Particle and Nuclear Physics, 2011, 66, 319-328.	14.4	8
121	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
122	Neutrinoless double beta decay studied with configuration mixing methods. Progress in Particle and Nuclear Physics, 2011, 66, 436-440.	14.4	24
123	Dynamical $r$ -process studies within the neutrino-driven wind scenario and its sensitivity to the nuclear physics input. Physical Review C, 2011, 83, .	2.9	114
124	CORE-COLLAPSE SUPERNOVA EXPLOSIONS TRIGGERED BY A QUARK-HADRON PHASE TRANSITION DURING THE EARLY POST-BOUNCE PHASE. Astrophysical Journal, Supplement Series, 2011, 194, 39.	7.7	136
125	Nucleosynthesis in neutrino-driven winds: Influence of the nuclear physics input. Journal of Physics: Conference Series, 2010, 202, 012007.	0.4	1
126	Network calculations for r-process nucleosynthesis. Journal of Physics: Conference Series, 2010, 202, 012008.	0.4	7



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127	Neutron-induced astrophysical reaction rates for translead nuclei. <i>Astronomy and Astrophysics</i> , 2010, 513, A61.	5.1	92
128	Neutrino- $\alpha$ nucleus reaction in supernovae. <i>Progress in Particle and Nuclear Physics</i> , 2010, 64, 400-403.	14.4	0
129	Neutrinos and explosive nucleosynthesis. <i>Progress in Particle and Nuclear Physics</i> , 2010, 64, 404-406.	14.4	0
130	Improved estimate of electron capture rates on nuclei during stellar core collapse. <i>Nuclear Physics A</i> , 2010, 848, 454-478.	1.5	129
131	The effects of $r$ -process heating on fallback accretion in compact object mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 402, 2771-2777.	4.4	78
132	Electromagnetic counterparts of compact object mergers powered by the radioactive decay of $r$ -process nuclei. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 406, 2650-2662.	4.4	881
133	Electron fraction constraints based on nuclear statistical equilibrium with beta equilibrium. <i>Astronomy and Astrophysics</i> , 2010, 522, A25.	5.1	23
134	$\gamma$ -ray bursts black hole accretion disks as a site for the $r$ -process. <i>Physical Review C</i> , 2010, 81, .	2.9	15
135	Scales in the fine structure of the magnetic dipole resonance: A wavelet approach to the shell model. <i>Physical Review C</i> , 2010, 81, .	2.9	9
136	Energy Density Functional Study of Nuclear Matrix Elements for Neutrinoless $\beta\beta$ Decay. <i>Physical Review Letters</i> , 2010, 105, 252503.	7.8	296
137	Gamow-Teller strength distributions at finite temperatures and electron capture in stellar environments. <i>Physical Review C</i> , 2010, 81, .	2.9	69
138	High-resolution study of $^{37}\text{Cl} \rightarrow ^{37}\text{Ar}$ Gamow-Teller transition via $^{37}\text{Cl}([^3\text{He}, t)^{37}\text{Ar}$ reaction. , 2010, , .		0
139	$r$ -process in Type II supernovae and the role of direct capture. , 2010, , .		3
140	The $r$ -, $p$ -, and $\beta$ -Process. <i>Journal of Physics: Conference Series</i> , 2010, 202, 012006.	0.4	12
141	Description of proton-neutron mixed-symmetry states near $^{132}\text{Sn}$ within a realistic large scale shell model. <i>Physical Review C</i> , 2009, 80, .	2.9	46
142	Shell model description of zirconium isotopes. <i>Physical Review C</i> , 2009, 79, .	2.9	98
143	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
144	Recent progress in measuring $\beta$ half-lives of nuclei approaching the $r$ -process waiting point $A = 195$ . <i>Nuclear Physics A</i> , 2009, 827, 587c-589c.	1.5	28

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145	Evidence of a new state in $^{11}\text{Be}$ observed in the $^{11}\text{Li}$ $\hat{I}^2$ -decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 677, 255-259.	4.1	12
146	Spherical proton-neutron structure of isomeric states in $^{128}\text{Cd}$ . <i>Physical Review C</i> , 2009, 79, .	2.9	39
147	Electron Screening Effects on $\hat{I}^{\pm}$ -decay. , 2009, , .		7
148	Weak Interaction processes in core-collapse supernova. <i>Nuclear Physics A</i> , 2008, 805, 478c-485c.	1.5	2
149	Complete inclusion of parity-dependent level densities in the statistical description of astrophysical reaction rates. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 666, 395-399.	4.1	16
150	Beta-decay of nuclei near the closed neutron shell. <i>Nuclear Physics A</i> , 2008, 814, 159-173.	1.5	36
151	Nuclear physics in core-collapse supernovae. <i>New Astronomy Reviews</i> , 2008, 52, 373-376.	12.8	6
152	Selected topics in nuclear astrophysics. <i>European Physical Journal: Special Topics</i> , 2008, 156, 123-149.	2.6	11
153	Nuclear physics aspects of supernovae evolution and nucleosynthesis. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2008, 35, 014057.	3.6	4
154	Effects of Inelastic Neutrino-Nucleus Scattering on Supernova Dynamics and Radiated Neutrino Spectra. <i>Physical Review Letters</i> , 2008, 100, 011101.	7.8	84
155	Parity-projected shell model Monte Carlo level densities for medium-mass nuclei. , 2008, , .		0
156	Influence of light nuclei on neutrino-driven supernova outflows. <i>Physical Review C</i> , 2008, 78, .	2.9	88
157	Pygmy dipole response of proton-rich argon nuclei in random-phase approximation and no-core shell model. <i>Physical Review C</i> , 2008, 77, .	2.9	15
158	Mass measurements in the vicinity of the $^{128}\text{Cd}$ $\hat{I}^{\pm}$ -process and the $^{128}\text{Cd}$ $\hat{I}^{\pm}$ -process	2.9	119
159	using the $^{128}\text{Cd}$ $\hat{I}^{\pm}$ -process		

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163	Large-scale prediction of the parity distribution in the nuclear level density and application to astrophysical reaction rates. <i>Physical Review C</i> , 2007, 75, .	2.9	51
164	New spin assignments in the odd-odd $N=Z$ nucleus $^{42}\text{Sc}$ and the breaking of the $^{40}\text{Ca}$ core. <i>Physical Review C</i> , 2007, 75, .	2.9	8
165	Gamow-Teller Strength in the Exotic Odd-Odd Nuclei $^{138}\text{La}$ and $^{180}\text{Ta}$ and Its Relevance for Neutrino Nucleosynthesis. <i>Physical Review Letters</i> , 2007, 98, 082501.	7.8	70
166	Spin- and Parity-Resolved Level Densities from the Fine Structure of Giant Resonances. <i>Physical Review Letters</i> , 2007, 99, 202502.	7.8	48
167	Observation of Isomeric Decays in the $r$ -Process Waiting-Point Nucleus $^{82}\text{Cd}$ . <i>Physical Review Letters</i> , 2007, 99, 132501.	7.8	135
168	Parity-projected shell model Monte Carlo level densities for $fp$ -shell nuclei. <i>Physical Review C</i> , 2007, 75, .	2.9	17
169	Isospin structure of $f_7^{\pi} = 1$ states in $^{58}\text{Ni}$ and $^{58}\text{Cu}$ studied by $^{58}\text{Ni}(p,p')$ and $^{58}\text{Ni}(\text{He}3,t)^{58}\text{Cu}$ measurements. <i>Physical Review C</i> , 2007, 75, .	2.9	44
170	Nuclear structure and astrophysics. <i>Reports on Progress in Physics</i> , 2007, 70, 1525-1582.	20.1	165
171	Spin- and Parity-Resolved Level Densities from High-Resolution Hadron and Electron Scattering Studies of Giant Resonances. <i>Nuclear Physics A</i> , 2007, 788, 136-141.	1.5	1
172	Magnetic dipole probes of the $sd$ and $pf$ shell crossing in the $^{36,38}\text{Ar}$ isotopes. <i>Nuclear Physics A</i> , 2007, 789, 114-124.	1.5	18
173	Theory of core-collapse supernovae. <i>Physics Reports</i> , 2007, 442, 38-74.	25.6	665
174	Astrophysically important nuclear reactions. <i>Progress in Particle and Nuclear Physics</i> , 2007, 59, 66-73.	14.4	0
175	Production of intermediate-mass and heavy nuclei. <i>Progress in Particle and Nuclear Physics</i> , 2007, 59, 74-93.	14.4	16
176	The role of fission in the $r$ -process. <i>Progress in Particle and Nuclear Physics</i> , 2007, 59, 199-205.	14.4	65
177	Shell model half-lives for $r$ -process $N = 82$ nuclei. <i>European Physical Journal A</i> , 2007, 34, 99-105.	2.5	37
178	Breaking of the $SU(4)$ limit for the Gamow-Teller strength in $N \approx 1/4 Z$ nuclei. <i>European Physical Journal A</i> , 2007, 34, 319-324.	2.5	13
179	Neutrino-Induced Nucleosynthesis of $A > 64$ Nuclei: The $^{1/2}p$ Process. <i>Physical Review Letters</i> , 2006, 96, 142502.	7.8	421
180	Composition of the Innermost Core of a Core-Collapse Supernova Ejecta. <i>Astrophysical Journal</i> , 2006, 637, 415-426.	4.5	196

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182	Nucleosynthesis in neutrino-driven supernovae. New Astronomy Reviews, 2006, 50, 496-499.	12.8	19
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