

Gabriel MartÃ-nez-Pinedo

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4227298/publications.pdf>

Version: 2024-02-01

284
papers

16,244
citations

15504

65
h-index

17592

121
g-index

290
all docs

290
docs citations

290
times ranked

6532
citing authors

#	ARTICLE	IF	CITATIONS
1	The shell model as a unified view of nuclear structure. <i>Reviews of Modern Physics</i> , 2005, 77, 427-488.	45.6	1,018
2	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
3	Theory of core-collapse supernovae. <i>Physics Reports</i> , 2007, 442, 38-74.	25.6	665
4	Shell-model calculations of stellar weak interaction rates: II. Weak rates for nuclei in the mass range in supernovae environments. <i>Nuclear Physics A</i> , 2000, 673, 481-508.	1.5	524
5	Nuclear weak-interaction processes in stars. <i>Reviews of Modern Physics</i> , 2003, 75, 819-862.	45.6	484
6	Neutrino-Induced Nucleosynthesis of $A > 64$ Nuclei: The $\hat{1}/2p$ Process. <i>Physical Review Letters</i> , 2006, 96, 142502.	7.8	421
7	Origin of the heaviest elements: The rapid neutron-capture process. <i>Reviews of Modern Physics</i> , 2021, 93, .	45.6	326
8	Energy Density Functional Study of Nuclear Matrix Elements for Neutrinoless $\beta\beta$ Decay. <i>Physical Review Letters</i> , 2010, 105, 252503.	7.8	296
9	RADIOACTIVITY AND THERMALIZATION IN THE EJECTA OF COMPACT OBJECT MERGERS AND THEIR IMPACT ON KILONOVA LIGHT CURVES. <i>Astrophysical Journal</i> , 2016, 829, 110.	4.5	243
10	Fullpfshell model study of $A=48$ nuclei. <i>Physical Review C</i> , 1994, 50, 225-236.	2.9	240
11	Electron Capture Rates on Nuclei and Implications for Stellar Core Collapse. <i>Physical Review Letters</i> , 2003, 90, 241102.	7.8	240
12	What are the astrophysical sites for the r-process and the production of heavy elements?. <i>Progress in Particle and Nuclear Physics</i> , 2011, 66, 346-353.	14.4	229
13	RATE TABLES FOR THE WEAK PROCESSES OF p -SHELL NUCLEI IN STELLAR ENVIRONMENTS. <i>Atomic Data and Nuclear Data Tables</i> , 2001, 79, 1-46.	2.4	227
14	Effective g_A in the pfshell. <i>Physical Review C</i> , 1996, 53, R2602-R2605.	2.9	220
15	Large-scale evaluation of $\beta\beta$ -decay rates of r -process nuclei with the inclusion of first forbidden transitions. <i>Physical Review C</i> , 2016, 93, .	2.9	210
16	Shell-model calculations of stellar weak interaction rates. I. Gamow-Teller distributions and spectra of nuclei in the mass range $A = 45 \text{--} 65$. <i>Nuclear Physics A</i> , 1999, 653, 439-452.	1.5	204
17	Consequences of Nuclear Electron Capture in Core Collapse Supernovae. <i>Physical Review Letters</i> , 2003, 91, 201102.	7.8	198
18	Composition of the Innermost Core-collapse Supernova Ejecta. <i>Astrophysical Journal</i> , 2006, 637, 415-426.	4.5	196

#	ARTICLE	IF	CITATIONS
19	Presupernova Evolution with Improved Rates for Weak Interactions. <i>Astrophysical Journal</i> , 2001, 560, 307-325.	4.5	178
20	Neutrino nucleosynthesis. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005, 606, 258-264.	4.1	174
21	Neutrino nucleus reactions and nuclear structure. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2003, 29, 2569-2596.	3.6	167
22	Full $1f_7/2$ shell model calculation of the binding energies of the $1f_7/2$ nuclei. <i>Physical Review C</i> , 1999, 59, 2033-2039.	2.9	166
23	Nuclear structure and astrophysics. <i>Reports on Progress in Physics</i> , 2007, 70, 1525-1582.	20.1	165
24	Charged-Current Weak Interaction Processes in Hot and Dense Matter and its Impact on the Spectra of Neutrinos Emitted from Protoneutron Star Cooling. <i>Physical Review Letters</i> , 2012, 109, 251104.	7.8	165
25	THE ROLE OF FISSION IN NEUTRON STAR MERGERS AND ITS IMPACT ON THE r -PROCESS PEAKS. <i>Astrophysical Journal</i> , 2015, 808, 30.	4.5	156
26	ADVANCED BURNING STAGES AND FATE OF 8-10 M_{\odot} STARS. <i>Astrophysical Journal</i> , 2013, 772, 150.	4.5	155
27	The Role of Electron Captures in Chandrasekhar Mass Models for Type Ia Supernovae. <i>Astrophysical Journal</i> , 2000, 536, 934-947.	4.5	152
28	Production of the entire range of r -process nuclides by black hole accretion disc outflows from neutron star mergers. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 463, 2323-2334.	4.4	147
29	Intrinsic vs Laboratory Frame Description of the Deformed Nucleus ^{48}Cr . <i>Physical Review Letters</i> , 1995, 75, 2466-2469.	7.8	137
30	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
31	Shell-model half-lives including first-forbidden contributions for r -process waiting-point nuclei. <i>Physical Review C</i> , Observation of Isomeric Decays in the r -Process Waiting-Point Nucleus	2.9	136
32	Observation of Isomeric Decays in the r -Process Waiting-Point Nucleus ^{82}Cd . <i>Physical Review Letters</i> , 2007, 99, 132501.	7.8	135
33	Presupernova Collapse Models with Improved Weak-Interaction Rates. <i>Physical Review Letters</i> , 2001, 86, 1678-1681.	7.8	131
34	Isobaric Multiplet Yrast Energies and Isospin Nonconserving Forces. <i>Physical Review Letters</i> , 2002, 89, 142502.	7.8	129
35	Improved estimate of electron capture rates on nuclei during stellar core collapse. <i>Nuclear Physics A</i> , 2010, 848, 454-478.	1.5	129
36	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

#	ARTICLE	IF	CITATIONS
37	Detectability of compact binary merger macronovae. <i>Classical and Quantum Gravity</i> , 2017, 34, 104001.	4.0	126
38	Nuclear robustness of the r -process in neutron-star mergers. <i>Physical Review C</i> , 2015, 92, .	2.9	124
39	Fullpfshell study of $A=47$ and $A=49$ nuclei. <i>Physical Review C</i> , 1997, 55, 187-205.	2.9	123
40	Muon Creation in Supernova Matter Facilitates Neutrino-Driven Explosions. <i>Physical Review Letters</i> , 2017, 119, 242702.	7.8	121
41	Pairing and the structure of the pf-shell $N \approx 1/4 Z$ nuclei. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 430, 203-208.	4.1	119
42	Mass measurements in the vicinity of the r -process and the p -process. <i>Physical Review C</i> , 2011, 83, .	2.9	119
43	Dynamical r -process studies within the neutrino-driven wind scenario and its sensitivity to the nuclear physics input. <i>Physical Review C</i> , 2011, 83, .	2.9	114
44	Shell model description of isotope shifts in calcium. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 522, 240-244.	4.1	111
45	Shell-Model Half-Lives for $N=82$ Nuclei and Their Implications for the r -Process. <i>Physical Review Letters</i> , 1999, 83, 4502-4505.	7.8	108
46	Supernova Inelastic Neutrino-Nucleus Cross Sections from High-Resolution Electron Scattering Experiments and Shell-Model Calculations. <i>Physical Review Letters</i> , 2004, 93, 202501.	7.8	102
47	Shell model description of zirconium isotopes. <i>Physical Review C</i> , 2009, 79, .	2.9	98
48	Neutron-induced astrophysical reaction rates for translead nuclei. <i>Astronomy and Astrophysics</i> , 2010, 513, A61.	5.1	92
49	Influence of light nuclei on neutrino-driven supernova outflows. <i>Physical Review C</i> , 2008, 78, .	2.9	88
50	Fission properties for r -process nuclei. <i>Physical Review C</i> , 2012, 85, .	2.9	88
51	Neutrino spectra evolution during protoneutron star deleptonization. <i>Physical Review D</i> , 2012, 85, .	4.7	88
52	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
53	Nuclear cross sections, nuclear structure and stellar nucleosynthesis. <i>Nuclear Physics A</i> , 2003, 718, 139-146.	1.5	84
54	Effects of Inelastic Neutrino-Nucleus Scattering on Supernova Dynamics and Radiated Neutrino Spectra. <i>Physical Review Letters</i> , 2008, 100, 011101.	7.8	84

#	ARTICLE	IF	CITATIONS
55	Fingerprints of Heavy-Element Nucleosynthesis in the Late-Time Lightcurves of Kilonovae. <i>Physical Review Letters</i> , 2019, 122, 062701.	7.8	84
56	Nuclear Quadrupole Moment of ^{57}Fe from Microscopic Nuclear and Atomic Calculations. <i>Physical Review Letters</i> , 2001, 87, 062701.	7.8	80
57	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
58	Coulomb Energy Differences in $T=1$ Mirror Rotational Bands in ^{50}e and ^{50}r . <i>Physical Review Letters</i> , 2001, 87, 122501.	7.8	76
59	Have superheavy elements been produced in nature?. <i>European Physical Journal A</i> , 2012, 48, 1.	2.5	74
60	Fission properties of superheavy nuclei for r -process calculations. <i>Physical Review C</i> , 2018, 97, .	2.9	72
61	Precise DSAM lifetime measurements in ^{48}Cr and ^{50}Cr as a test of large scale shell model calculations. <i>Nuclear Physics A</i> , 1998, 642, 387-406.	1.5	71
62	Gamow-Teller Strength in the Exotic Odd-Odd Nuclei ^{138}La and ^{180}Ta and Its Relevance for Neutrino Nucleosynthesis. <i>Physical Review Letters</i> , 2007, 98, 082501.	7.8	70
63	Gamow-Teller strength distributions at finite temperatures and electron capture in stellar environments. <i>Physical Review C</i> , 2010, 81, .	2.9	69
64	Neutrino "nucleus reactions and their role for supernova dynamics and nucleosynthesis. <i>Progress in Particle and Nuclear Physics</i> , 2015, 85, 33-81.	14.4	66
65	The role of fission in the r -process. <i>Progress in Particle and Nuclear Physics</i> , 2007, 59, 199-205.	14.4	65
66	Effects of neutrino oscillations on nucleosynthesis and neutrino signals for an r -process model. <i>Physical Review D</i> , 2015, 91, .	4.7	64
67	Element synthesis in stars. <i>Progress in Particle and Nuclear Physics</i> , 2001, 46, 5-22.	14.4	62
68	Beta-decay to the proton halo state in ^{17}F . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1993, 317, 25-30.	4.1	60
69	Impact of Neutrino Opacities on Core-collapse Supernova Simulations. <i>Astrophysical Journal</i> , 2018, 853, 170.	4.5	60
70	Astrophysical weak-interaction rates for selected r -process nuclei. <i>Physical Review C</i> , 2014, 89, .	2.0	59
71	Supernova electron capture rates for ^{55}Co and ^{56}Ni . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 436, 19-24.	4.1	57
72	The neutrino signal in stellar core collapse and postbounce evolution. <i>Nuclear Physics A</i> , 2003, 719, C144-C152.	1.5	57

#	ARTICLE	IF	CITATIONS
73	Supernova neutrinos and nucleosynthesis. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 044008.	3.6	57
74	Backbending in Cr50. Physical Review C, 1996, 54, R2150-R2154.	2.9	56
75	Elucidating halo structure by β^2 decay: ^2He from the ^7Li decay. Physical Review C, 1997, 55, R8-R11.	2.9	56
76	Sensitivity study of explosive nucleosynthesis in type Ia supernovae: Modification of individual thermonuclear reaction rates. Physical Review C, 2012, 85, .	2.9	56
77	Impact of active-sterile neutrino mixing on supernova explosion and nucleosynthesis. Physical Review D, 2014, 89, .	4.7	55
78	Mirror and valence symmetries at the centre of the $f7/2$ shell. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 437, 243-248.	4.1	54
79	High-resolution study of the Gamow-Teller strength distribution in ^51Ti measured through $^51\text{V}(d,^2\text{He})^51\text{Ti}$. Physical Review C, 2003, 68, .	2.9	53
80	Neutral-current neutrino-nucleus cross sections for nuclei. Nuclear Physics A, 2005, 747, 87-108.	1.5	52
81	Large-scale prediction of the parity distribution in the nuclear level density and application to astrophysical reaction rates. Physical Review C, 2007, 75, .	2.9	51
82	Inclusive $^{56}\text{Fe}(\beta^2, e^-)^{56}\text{Co}$ cross section. Physical Review C, 1999, 60, .	2.9	49
83	Neutral-current neutrino reactions in the supernova environment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2002, 529, 19-25.	4.1	49
84	The β^2 -Process in the Light of an Improved Understanding of Supernova Neutrino Spectra. Astrophysical Journal, 2018, 865, 143.	4.5	49
85	Spin- and Parity-Resolved Level Densities from the Fine Structure of Giant Resonances. Physical Review Letters, 2007, 99, 202502.	7.8	48
86	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
87	SHELL MODEL BASED REACTION RATES FOR rp-PROCESS NUCLEI IN THE MASS RANGE $A=44\text{--}63$. Atomic Data and Nuclear Data Tables, 2001, 79, 241-292.	2.4	47
88	Supernova Nucleosynthesis and Galactic Evolution. , 0, , 331-343.		47
89	First Measurement of Several β^2 -Delayed Neutron Emitting Isotopes Beyond $N=126$. Description of proton-neutron mixed-symmetry states near ^132Sn within a realistic large scale shell model. Physical Review C, 2009, 80, .	7.8	47
90	Description of proton-neutron mixed-symmetry states near ^132Sn within a realistic large scale shell model. Physical Review C, 2009, 80, .	2.9	46

#	ARTICLE	IF	CITATIONS
91	High-spin states in the odd-odd $N=Z$ nucleus ^{50}Mn . <i>Physical Review C</i> , 1998, 58, R2621-R2625.	2.9	45
92	Isospin structure of $J^\pi=1^+$ states in ^{58}Ni and ^{58}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
93	Band termination in the $N=Z$ odd-odd nucleus ^{46}V . <i>Physical Review C</i> , 1999, 60, .	2.9	43
94	The physics of type Ia supernovae. <i>New Astronomy Reviews</i> , 2004, 48, 605-610.	12.8	43
95	The production of transuranium elements by the r-process nucleosynthesis. <i>Nuclear Physics A</i> , 2015, 944, 158-176.	1.5	42
96	Excited states in ^{52}Fe and the origin of the yrast trap at $J^\pi=12^+$. <i>Physical Review C</i> , 1998, 58, 3163-3170.	2.9	41
97	Supernova electron capture rates on odd-odd nuclei. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 453, 187-193.	4.1	41
98	Competition of isoscalar and isovector proton-neutron pairing in nuclei. <i>Nuclear Physics A</i> , 1999, 651, 379-393.	1.5	41
99	Neutrino signal from proto-neutron star evolution: Effects of opacities from charged-current $\bar{\nu}$ -neutrino interactions and inverse neutron decay. <i>Physical Review C</i> , 2020, 101, .	2.9	41
100	Supernova neutrino induced reactions on iron isotopes. <i>Nuclear Physics A</i> , 2001, 694, 395-408.	1.5	40
101	Reevaluation of the $^{30}\text{P}(p,^3\text{S})^{31}\text{S}$ astrophysical reaction rate from a study of the $T=1/2$ mirror nuclei, ^{31}S and ^{31}P . <i>Physical Review C</i> , 2006, 73, .	2.9	40
102	Title is missing!. <i>European Physical Journal A</i> , 2002, 13, 411-418.	2.5	40
103	Observation of the $^{11}\text{Li}(\hat{1}^2\text{d})$ decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1996, 367, 65-69.	4.1	39
104	High-resolution determination of GT strength distributions relevant to the presupernova evolution using the $(d,^2\text{He})$ reaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004, 579, 251-257.	4.1	39
105	Spherical proton-neutron structure of isomeric states in ^{128}Cd . <i>Physical Review C</i> , 2008, 78, .	2.9	39
106	Testing the importance of collective correlations in neutrinoless ^{128}Cd . <i>Physical Review C</i> , 2016, 93, .	2.9	39
107	Probing the ^{11}Li halo structure through $\hat{1}^2$ -decay into the $^{11}\text{Be}^{\sim}(18\text{ MeV})$ state. <i>Nuclear Physics A</i> , 1997, 613, 199-208.	1.5	37
108	Shell model half-lives for r-process $N = 82$ nuclei. <i>European Physical Journal A</i> , 2007, 34, 99-105.	2.5	37

#	ARTICLE	IF	CITATIONS
109	Electron capture in stars. Reports on Progress in Physics, 2021, 84, 066301.	20.1	37
110	Beta-decay of nuclei near the closed neutron shell. Nuclear Physics A, 2008, 814, 159-173. Studies on the double- β^2 decay nucleus Zn	1.5	36
111	using the ^{64}Zn		

#	ARTICLE	IF	CITATIONS
127	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
128	Recent progress in measuring \hat{I}^2 half-lives of nuclei approaching the r-process waiting point A = 195. Nuclear Physics A, 2009, 827, 587c-589c.	1.5	28
129	Mass measurements of neutron-deficient Y, Zr, and Nb isotopes and their impact on rp and $\hat{I}^2\hat{I}^2$ p nucleosynthesis processes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 358-363.	4.1	28
130	Charged-current muonic reactions in core-collapse supernovae. Physical Review D, 2020, 102, .	4.7	28
131	Thermal-neutron capture by Ni58, Ni59, and Ni60. Physical Review C, 2004, 70, .	2.9	27
132	Nucleosynthesis and Stellar Evolution. Astrophysics and Space Science, 2002, 281, 25-37.	1.4	26
133	Effect of collective neutrino flavor oscillations on $\hat{I}^2\hat{I}^2$ p-process nucleosynthesis. European Physical Journal A, 2011, 47, 1.	2.5	26
134	Finding the Remnants of the Milky Way's Last Neutron Star Mergers. Astrophysical Journal, 2019, 880, 23.	4.5	26
135	Magnetic dipole excitations of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mmultiscritps} \rangle \langle \text{mml:mi} \rangle \text{Cr} \langle \text{mml:mi} \rangle \langle \text{mml:mprescript} \rangle \langle \text{mml:none} \rangle \langle \text{mml:m} \rangle 50 \langle \text{mml:m} \rangle \langle \text{mml:mmultiscritps} \rangle \langle \text{mml:math} \rangle$. Physical Review C, 2016, 93, .		25
136	Muonization of supernova matter. Physical Review D, 2020, 102, .	4.7	25
137	Unblocking of stellar electron capture for neutron-rich $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle 2 \langle \text{mml:m} \rangle 50 \langle \text{mml:m} \rangle \langle \text{mml:math} \rangle$ nuclei at finite temperature. Physical Review C, 2020, 101, .		25
138	Neutrinoless double beta decay studied with configuration mixing methods. Progress in Particle and Nuclear Physics, 2011, 66, 436-440.	14.4	24
139	Electron fraction constraints based on nuclear statistical equilibrium with beta equilibrium. Astronomy and Astrophysics, 2010, 522, A25.	5.1	23
140	NUCLEOSYNTHESIS IN CORE-COLLAPSE SUPERNOVA EXPLOSIONS TRIGGERED BY A QUARK-HADRON PHASE TRANSITION. Astrophysical Journal, 2012, 758, 9.	4.5	23
141	Influence of spontaneous fission rates on the yields of superheavy elements in the r-process. Astronomy Letters, 2013, 39, 150-160.	1.0	23
142	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
143	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
144	Neutrino absorption cross sections in the supernova environment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 511, 11-18.	4.1	21

#	ARTICLE	IF	CITATIONS
145	Determination of the Gamow-Teller strength distribution from the odd-odd nucleus $V50$ measured through $V50(d,He2)Ti50$ and astrophysical implications. <i>Physical Review C</i> , 2005, 71, .	2.9	21
146	Expected impact from weak reactions with light nuclei in core-collapse supernova simulations. <i>EPJ Web of Conferences</i> , 2016, 109, 06002.	0.3	21
147	Calculation of nuclear matrix elements in neutrinoless double electron capture. <i>Physical Review C</i> , 2012, 85, .	2.9	20
148	Survey of nuclear pasta in the intermediate-density regime: Shapes and energies. <i>Physical Review C</i> , 2019, 100, .	2.9	20
149	Gamow-Teller transitions from $58Ni$ to discrete states of $58Cu$. <i>European Physical Journal A</i> , 2002, 13, 411-418.	2.5	19
150	Low-energy magnetic dipole response in $56Fe$ from high-resolution electron scattering. <i>Nuclear Physics A</i> , 2003, 727, 41-55.	1.5	19
151	Spin-isospin excitations in the medium-mass nucleus $Co58$ investigated with the $(d,2He)$ reaction. <i>Physical Review C</i> , 2005, 71, .	2.9	19
152	Nucleosynthesis in neutrino-driven supernovae. <i>New Astronomy Reviews</i> , 2006, 50, 496-499.	12.8	19
153	Thermal quasiparticle random-phase approximation with Skyrme interactions and supernova neutral-current neutrino-nucleus reactions. <i>Physical Review C</i> , 2016, 94, .	2.9	19
154	Measurement of the \mathbb{F}_{gs} ground-state transition in the \mathbb{F}_{gs} decay of \mathbb{F}_{gs} . <i>Physical Review C</i> , 2019, 100, .	2.9	19
155	SNe Ia Keep Memory of Their Progenitor Metallicity. <i>Astrophysical Journal Letters</i> , 2017, 836, L9.	8.3	19
156	Beta decay of $56Cu$. <i>Nuclear Physics A</i> , 2001, 695, 69-81.	1.5	18
157	Magnetic dipole probes of the <i>sd</i> and <i>pf</i> shell crossing in the $36,38Ar$ isotopes. <i>Nuclear Physics A</i> , 2007, 789, 114-124.	1.5	18
158	Two-hole structure outside ^{78}Ni : Existence of a ^{78}Ni isomer of ^{78}Ni . <i>Physical Review C</i> , 2019, 100, .	2.9	18
159	Parity-projected shell model Monte Carlo level densities for <i>fp</i> -shell nuclei. <i>Physical Review C</i> , 2007, 75, .	2.9	17
160	Production of intermediate-mass and heavy nuclei. <i>Progress in Particle and Nuclear Physics</i> , 2007, 59, 74-93.	14.4	16
161	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
162	Q value and half-life of double-electron capture in $184Os$. <i>Physical Review C</i> , 2012, 86, .	2.9	16

#	ARTICLE	IF	CITATIONS
163	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
164	γ -ray bursts black hole accretion disks as a site for the r -process. <i>Physical Review C</i> , 2010, 81, .	2.9	15
165	Mass measurements of neutron-rich gallium isotopes refine production of nuclei of the first r -process abundance peak in neutron-star merger calculations. <i>Physical Review C</i> , 2020, 101, .	2.9	15
166	β^+ -decay of ^{61}Ga . <i>Physical Review C</i> , 2002, 65, .	2.9	14
167	Electron capture rates for core collapse supernovae. <i>Nuclear Physics A</i> , 2003, 718, 440-442.	1.5	14
168	Hindered E4 decay of the ^{13}Si . <i>Nuclear Physics A</i> , 2014, 928, 305-312.	4.1	14
169	The role of electron capture in core-collapse supernovae. <i>Nuclear Physics A</i> , 2014, 928, 305-312.	1.5	14
170	Shell Model Calculation of the β^+ and β^+ -Partial Half-Lives of ^{54}Mn and Other Unique Second Forbidden β^+ Decays. <i>Physical Review Letters</i> , 1998, 81, 281-284.	7.8	13
171	Breaking of the SU(4) limit for the Gamow-Teller strength in $N \approx Z$ nuclei. <i>European Physical Journal A</i> , 2007, 34, 319-324.	2.5	13
172	Evidence of a new state in ^{11}Be observed in the ^{11}Li β^+ -decay. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 677, 255-259.	4.1	12
173	The r -, p -, and β^+ -Process. <i>Journal of Physics: Conference Series</i> , 2010, 202, 012006.	0.4	12
174	Role of momentum transfer in the quenching of Gamow-Teller strength. <i>Physical Review C</i> , 2012, 85, .	2.9	12
175	High-resolution study of Gamow-Teller transitions with the $^{37}\text{Cl}(^3\text{He},t)^{37}\text{Ar}$ reaction. <i>Physical Review C</i> , 2012, 86, .	2.9	12
176	Core collapse supernovae in the QCD phase diagram. <i>Physics of Atomic Nuclei</i> , 2012, 75, 613-620.	0.4	12
177	The Impact of Fission on R-Process Calculations. <i>Journal of Physics: Conference Series</i> , 2016, 665, 012054.	0.4	12
178	Coulomb effects in the shell. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1999, 25, 599-604.	3.6	11
179	Half-life of ^{56}Ni in cosmic rays. <i>European Physical Journal A</i> , 1999, 5, 229-231.	2.5	11
180	Heavy Elements and Age Determinations. <i>Space Science Reviews</i> , 2002, 100, 277-296.	8.1	11

#	ARTICLE	IF	CITATIONS
181	Selected topics in nuclear astrophysics. European Physical Journal: Special Topics, 2008, 156, 123-149.	2.6	11
182	Fine structure in the beta-delayed proton decay of ^{33}Ar . Nuclear Physics A, 1996, 611, 47-55.	1.5	10
183	Large scale diagonalizations in the pf shell: Achievements and perspectives. Nuclear Physics A, 1999, 654, 747c-758c.	1.5	10
184	Determination of the neutron-capture rate of C17 for r -process nucleosynthesis. Physical Review C, 2017, 95, .	2.9	10
185	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
186	Survey of nuclear pasta in the intermediate-density regime: Structure functions for neutrino scattering. Physical Review C, 2020, 101, .	2.9	10
187	Structure of $N = Z$ nuclei in the $1f7/2$ shell. Il Nuovo Cimento A, 1998, 111, 739-746.	0.1	10
188	The Innermost Ejecta of Core Collapse Supernovae. Nuclear Physics A, 2005, 758, 27-30.	1.5	9
189	Scales in the fine structure of the magnetic dipole resonance: A wavelet approach to the shell model. Physical Review C, 2010, 81, .	2.9	9
190	Separation of the 1^{-} parity doublet in ^{20}Ne . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 741, 128-133.	0.1	9
191	New spin assignments in the odd-odd $N=Z$ nucleus ^{42}Sc and the breaking of the ^{40}Ca core. Physical Review C, 2007, 75, .	2.9	8
192	Nuclear quests for supernova dynamics and nucleosynthesis. Progress in Particle and Nuclear Physics, 2011, 66, 319-328.	14.4	8
193	Neutrinos and Their Impact on Core-Collapse Supernova Nucleosynthesis. , 2017, , 1805-1841.		8
194	Chiral Effective Field Theory Description of Neutrino Nucleon Bremsstrahlung in Supernova Matter. Astrophysical Journal, 2019, 887, 58.	4.5	8
195	Beta decay of $^{57}\text{Zn}^*$. EPJ Direct, 2002, 4, 1-11.	0.1	7
196	Influence of parity-dependence in the nuclear level density on the prediction of astrophysical reaction rates. Nuclear Physics A, 2003, 718, 650-652.	1.5	7
197	Electron Screening Effects on β -decay. , 2009, , .		7
198	Network calculations for r-process nucleosynthesis. Journal of Physics: Conference Series, 2010, 202, 012008.	0.4	7

#	ARTICLE	IF	CITATIONS
199	Approaching r-process nuclei at $N = 126$. Journal of Physics: Conference Series, 2012, 337, 012070.	0.4	7
200	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
201	Linking neutrino oscillations to the nucleosynthesis of elements. EPJ Web of Conferences, 2016, 109, 06005.	0.3	7
202	Systematic study of infrared energy corrections in truncated oscillator spaces with Gogny energy density functionals. Physical Review C, 2016, 94, .	2.9	7
203	Self-consistent calculation of the reactor antineutrino spectra including forbidden transitions. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 085103.	3.6	7
204	Structure Calculations in Nd III and U III Relevant for Kilonovae Modelling. Atoms, 2022, 10, 18.	1.6	7
205	\hat{I}^3 -ray spectroscopy of $^{2656}\text{Fe}30$. Physical Review C, 2000, 62, .	2.9	6
206	THE R-PROCESS: SUPERNOVAE AND OTHER SOURCES OF THE HEAVIEST ELEMENTS. International Journal of Modern Physics E, 2007, 16, 1149-1163.	1.0	6
207	Nuclear physics in core-collapse supernovae. New Astronomy Reviews, 2008, 52, 373-376.	12.8	6
208	Shell Model Applications in Nuclear Astrophysics. Physics, 2022, 4, 677-689.	1.4	6
209	Beta decay of $V44$. Physical Review C, 1993, 48, 937-939.	2.9	5
210	Parity-Dependence in the Nuclear Level Density. Nuclear Physics A, 2005, 758, 154-157.	1.5	5
211	Neutrino nucleosynthesis in core-collapse Supernova explosions. EPJ Web of Conferences, 2016, 109, 06004.	0.3	5
212	Role of low-lying resonances for the $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Be} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 10 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle, \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \hat{I}^\pm \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mn} \rangle 7 \langle \text{mml:mn} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ reaction rate and implications for the formation of the Solar System. Physical Review C, 2022, 106, .	2.9	5
213	Muonic radioactive atoms - a unique probe for nuclear structure. Nuclear Physics A, 2004, 746, 513-517.	1.5	4
214	Nuclear electron capture in core collapse supernovae. Nuclear Physics A, 2005, 758, 31-34.	1.5	4
215	Re-evaluating reaction rates relevant to nova nucleosynthesis from a nuclear structure perspective. European Physical Journal A, 2006, 27, 117-121.	2.5	4
216	Nuclear physics aspects of supernovae evolution and nucleosynthesis. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 014057.	3.6	4

#	ARTICLE	IF	CITATIONS
217	Skyrme-RPA study of charged-current neutrino opacity in hot and dense supernova matter. EPJ Web of Conferences, 2018, 194, 02006.	0.3	4
218	Nuclear-reaction rates in the thermonuclear runaway phase of accreting neutron stars. European Physical Journal A, 2002, 15, 59-63.	2.5	3
219	Towards a parity-dependent level density for astrophysics. Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1927-S1930.	3.6	3
220	r-process in Type II supernovae and the role of direct capture. , 2010, , .		3
221	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
222	Recent progress and some open questions in nuclear astrophysics. Physica Scripta, 2015, T166, 014001.	2.5	3
223	Approaching the precursor nuclei of the third r-process peak with RIBs. Journal of Physics: Conference Series, 2016, 665, 012045.	0.4	3
224	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
225	Neutrinos and Their Impact on Core-Collapse Supernova Nucleosynthesis. , 2016, , 1-37.		3
226	Electron Capture and Beta-Decay Rates for the Collapse of O+Ne+Mg Cores. EPJ Web of Conferences, 2014, 66, 07011.	0.3	3
227	Forbidden electron capture on ^{24}Na and ^{27}Al in degenerate oxygen-neon stellar cores. Physical Review C, 2022, 105, .	2.9	3
228	Supernova electron capture rates. Nuclear Physics A, 1999, 654, 904c-907c.	1.5	2
229	Neutrino-nucleus interactions in core-collapse supernova. Nuclear Physics A, 2003, 718, 452-454.	1.5	2
230	Weak Interaction processes in core-collapse supernova. Nuclear Physics A, 2008, 805, 478c-485c.	1.5	2
231	Early protoneutron star deleptonization - consistent modeling of weak processes and equation of state. Journal of Physics: Conference Series, 2016, 665, 012069.	0.4	2
232	Neutrino nucleosynthesis in core-collapse Supernova explosions. Journal of Physics: Conference Series, 2018, 940, 012054.	0.4	2
233	Microscopic description of fission properties for r-process nuclei. Journal of Physics: Conference Series, 2018, 940, 012013.	0.4	2
234	The role of giant resonances in nuclear astrophysics: An overview. European Physical Journal A, 2019, 55, 1.	2.5	2

#	ARTICLE	IF	CITATIONS
235	Microscopic Calculations of β -decay Rates for r-process. Acta Physica Polonica B, 2017, 48, 641.	0.8	2
236	Stellar nucleosynthesis and galactic abundances. AIP Conference Proceedings, 2001, , .	0.4	1
237	Mirror symmetry and Coulomb effects in light $N \approx Z$ nuclei. European Physical Journal D, 2002, 52, C597-C606.	0.4	1
238	Neutrino-nucleus reactions in supernovae. Nuclear Physics, Section B, Proceedings Supplements, 2002, 112, 30-35.	0.4	1
239	A FAIR CHANCE FOR SUPERNOVAE. International Journal of Modern Physics E, 2007, 16, 1107-1120.	1.0	1
240	Spin- and Parity-Resolved Level Densities from High-Resolution Hadron and Electron Scattering Studies of Giant Resonances. Nuclear Physics A, 2007, 788, 136-141.	1.5	1
241	Reply to "Comment on "Pygmy dipole response of proton-rich argon nuclei in random-phase approximation and no-core shell model". Physical Review C, 2008, 78, .	2.9	1
242	Nucleosynthesis in neutrino-driven winds: Influence of the nuclear physics input. Journal of Physics: Conference Series, 2010, 202, 012007.	0.4	1
243	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
244	Shell model studies for nuclear astrophysics. Journal of Physics: Conference Series, 2015, 580, 012033.	0.4	1
245	Beta decay rates of neutron-rich nuclei. AIP Conference Proceedings, 2016, , .	0.4	1
246	Neutrino-nucleus reactions and their role in supernova dynamics and nucleosynthesis. Journal of Physics: Conference Series, 2018, 940, 012002.	0.4	1
247	r-process Calculations with a Microscopic Description of the Fission Process. Acta Physica Polonica B, 2017, 48, 299.	0.8	1
248	THE IMPORTANCE OF PARITY-DEPENDENCE OF THE NUCLEAR LEVEL DENSITY IN THE PREDICTION OF ASTROPHYSICAL REACTION RATES. , 2003, , .		1
249	NUCLEAR PHYSICS ISSUES OF THE R-PROCESS. , 2003, , .		1
250	CHARGED CURRENT INTERACTIONS OF NUMU NEUTRINOS IN SUPERNOVA. , 2015, , .		1
251	Neutrino-nucleus reactions and their role in supernova nucleosynthesis. Journal of Physics: Conference Series, 2020, 1643, 012024.	0.4	1
252	Self-consistent description of high-spin states in doubly magic ^{208}Pb . Physical Review C, 2022, 105, .	2.9	1

#	ARTICLE	IF	CITATIONS
253	Beyond-mean-field calculations of allowed and first-forbidden β^+ decays of r -process waiting-point nuclei. EPJ Web of Conferences, 2022, 260, 03002.	0.3	1
254	WEAK INTERACTION, GIANT RESONANCES AND NUCLEAR ASTROPHYSICS. , 2002, , .		0
255	Nuclear structure input for supernova modeling. Nuclear Physics A, 2004, 746, 323-329.	1.5	0
256	Terascale input physics: the role of nuclear electron capture in core collapse supernovae. Journal of Physics: Conference Series, 2005, 16, 400-404.	0.4	0
257	Microscopic Calculations of Weak Interaction Rates. Nuclear Physics A, 2005, 758, 387-390.	1.5	0
258	Shell-model applications in supernova physics. European Physical Journal A, 2005, 25, 659-664.	2.5	0
259	Weak Interaction Processes in Core-Collapse Supernovae. Springer Proceedings in Physics, 2005, , 321-326.	0.2	0
260	Weak Interaction Processes in Core-Collapse Supernovae. International Astronomical Union Colloquium, 2005, 192, 321-326.	0.1	0
261	Astrophysically important nuclear reactions. Progress in Particle and Nuclear Physics, 2007, 59, 66-73.	14.4	0
262	Parity-projected shell model Monte Carlo level densities for medium-mass nuclei. , 2008, , .		0
263	Neutrino- α nucleus reaction in supernovae. Progress in Particle and Nuclear Physics, 2010, 64, 400-403.	14.4	0
264	Neutrinos and explosive nucleosynthesis. Progress in Particle and Nuclear Physics, 2010, 64, 404-406.	14.4	0
265	High-resolution study of $^{37}\text{Cl} + ^{37}\text{Ar}$ Gamow-Teller transition via $^{37}\text{Cl}(^{3}\text{He}, t)^{37}\text{Ar}$ reaction. , 2010, , .		0
266	Application of nuclear density functionals to lepton number violating weak processes. , 2012, , .		0
267	Role of momentum transfer in the quenching of the Gamow-Teller strength. , 2012, , .		0
268	Challenges in explosive nucleosynthesis of heavy elements. , 2012, , .		0
269	Pairing in Heated Nuclei in the Shell Model Monte Carlo Approach. , 2013, , 154-168.		0
270	Selected topics in nuclear astrophysics. , 2013, , .		0

#	ARTICLE	IF	CITATIONS
271	Properties of neutrinoless double beta decay nuclear matrix elements studied along isotopic chains. EPJ Web of Conferences, 2014, 66, 08006.	0.3	0
272	Beta decay rates of neutron-rich nuclei. AIP Conference Proceedings, 2015, , .	0.4	0
273	The role of fission on neutron star mergers and its impact on the r-process peaks. AIP Conference Proceedings, 2016, , .	0.4	0
274	The role of neutrino-nucleus reactions in supernova dynamics and nucleosynthesis. Journal of Physics: Conference Series, 2016, 703, 012008.	0.4	0
275	Beta-Delayed Neutron Emission in Neutron-Rich Nuclei. , 2017, , .		0
276	Neutrino-nucleus reactions and their role in supernova dynamics and nucleosynthesis. AIP Conference Proceedings, 2017, , .	0.4	0
277	Role of nuclear reactions on stellar evolution of intermediate-mass stars. Journal of Physics: Conference Series, 2018, 940, 012050.	0.4	0
278	Yields from Type Ia Supernovae. Astrophysics and Space Science Library, 2000, , 445-459.	2.7	0
279	SUPERNOVAE AND GALACTIC EVOLUTION INDICATORS OF THEIR NUCLEOSYNTHESIS. , 2001, , 161-169.		0
280	Heavy Elements and Age Determinations. Space Sciences Series of ISSI, 2002, , 277-296.	0.0	0
281	Nuclear-reaction rates in the thermonuclear runaway phase of accreting neutron stars. , 2003, , 99-103.		0
282	Electron capture processes in intermediate mass stars. , 2015, , .		0
283	Neutrino Induced Nucleosynthesis of Radioactive Nuclei in Core-Collapse Supernovae. , 2017, , .		0
284	Neutrino-Nucleon Interactions in Supernova: Hartree Response & Approximations. , 2017, , .		0