

Thomas Rauscher

List of Publications by Year in descending order

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446
papers

14,621
citations

28242

55
h-index

26591

107
g-index

470
all docs

470
docs citations

470
times ranked

4587
citing authors

#	ARTICLE	IF	CITATIONS
1	Astrophysical Reaction Rates From Statistical Model Calculations. Atomic Data and Nuclear Data Tables, 2000, 75, 1-351.	0.9	807
2	Nucleosynthesis in Massive Stars with Improved Nuclear and Stellar Physics. Astrophysical Journal, 2002, 576, 323-348.	1.6	780
3	THE JINA REACLIB DATABASE: ITS RECENT UPDATES AND IMPACT ON TYPE-I X-RAY BURSTS. Astrophysical Journal, Supplement Series, 2010, 189, 240-252.	3.0	721
4	rp-process nucleosynthesis at extreme temperature and density conditions. Physics Reports, 1998, 294, 167-263.	10.3	581
5	End Point of therpProcess on Accreting Neutron Stars. Physical Review Letters, 2001, 86, 3471-3474.	2.9	469
6	NEUTRON CROSS SECTIONS FOR NUCLEOSYNTHESIS STUDIES. Atomic Data and Nuclear Data Tables, 2000, 76, 70-154.	0.9	429
7	Nuclear level density and the determination of thermonuclear rates for astrophysics. Physical Review C, 1997, 56, 1613-1625.	1.1	299
8	Models for Type I X-Ray Bursts with Improved Nuclear Physics. Astrophysical Journal, Supplement Series, 2004, 151, 75-102.	3.0	286
9	TABLES OF NUCLEAR CROSS SECTIONS AND REACTION RATES: AN ADDENDUM TO THE PAPER "ASTROPHYSICAL REACTION RATES FROM STATISTICAL MODEL CALCULATIONS". Atomic Data and Nuclear Data Tables, 2001, 79, 47-64.	0.9	256
10	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.	5.6	229
11	Constraining the astrophysical origin of the p-nuclei through nuclear physics and meteoritic data. Reports on Progress in Physics, 2013, 76, 066201.	8.1	221
12	KADoNiS- The Karlsruhe Astrophysical Database of Nucleosynthesis in Stars. AIP Conference Proceedings, 2006, , .	0.3	220
13	Performance of the neutron time-of-flight facility n_TOF at CERN. European Physical Journal A, 2013, 49, 1.	1.0	205
14	The Astrophysical r-Process: A Comparison of Calculations following Adiabatic Expansion with Classical Calculations Based on Neutron Densities and Temperatures. Astrophysical Journal, 1999, 516, 381-398.	1.6	197
15	r-process production in rotating massive stars at solar and low metallicities. Monthly Notices of the Royal Astronomical Society, 2016, 456, 1803-1825.	1.6	173
16	CHARGED-PARTICLE AND NEUTRON-CAPTURE PROCESSES IN THE HIGH-ENTROPY WIND OF CORE-COLLAPSE SUPERNOVAE. Astrophysical Journal, 2010, 712, 1359-1377.	1.6	168
17	THE ROLE OF FISSION IN NEUTRON STAR MERGERS AND ITS IMPACT ON THE r-PROCESS PEAKS. Astrophysical Journal, 2015, 808, 30.	1.6	156
18	CORE-COLLAPSE SUPERNOVA EXPLOSIONS TRIGGERED BY A QUARK-HADRON PHASE TRANSITION DURING THE EARLY POST-BOUNCE PHASE. Astrophysical Journal, Supplement Series, 2011, 194, 39.	3.0	136

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19	Production of heavy elements in inhomogeneous cosmologies. <i>Astrophysical Journal</i> , 1994, 429, 499.	1.6	133
20	Mass measurements in the vicinity of the r -process and the p -process and the β -decay of ^{137}Ba . <i>Physical Review Letters</i> , 2011, 106, 112501.	1.1	119
21	THE PATH TO IMPROVED REACTION RATES FOR ASTROPHYSICS. <i>International Journal of Modern Physics E</i> , 2011, 20, 1071-1169.	0.4	113
22	Calculations of fission rates for r -process nucleosynthesis. <i>Nuclear Physics A</i> , 2005, 747, 633-654.	0.6	106
23	Branchings in the β process path revisited. <i>Physical Review C</i> , 2006, 73, .	1.1	104
24	New experimental validation of the pulse height weighting technique for capture cross-section measurements. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 521, 454-467.	0.7	101
25	Relevant energy ranges for astrophysical reaction rates. <i>Physical Review C</i> , 2010, 81, .	1.1	99
26	^{10}Be and ^{11}B cross sections for n -capture reactions. <i>Nuclear Physics A</i> , 2009, 823, 26-37.	2.9	94
27	Iron 60 Evidence for Early Injection and Efficient Mixing of Stellar Debris in the Protosolar Nebula. <i>Astrophysical Journal</i> , 2008, 686, 560-569.	1.6	92
28	Neutron-induced astrophysical reaction rates for translead nuclei. <i>Astronomy and Astrophysics</i> , 2010, 513, A61.	2.1	92
29	SENSITIVITY OF ASTROPHYSICAL REACTION RATES TO NUCLEAR UNCERTAINTIES. <i>Astrophysical Journal, Supplement Series</i> , 2012, 201, 26.	3.0	88
30	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.	0.6	87
31	The electron-ion scattering experiment ELISE at the International Facility for Antiproton and Ion Research (FAIR) – A conceptual design study. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 637, 60-76.	0.7	85
32	Nuclear cross sections, nuclear structure and stellar nucleosynthesis. <i>Nuclear Physics A</i> , 2003, 718, 139-146.	0.6	84
33	The data acquisition system of the neutron time-of-flight facility n_TOF at CERN. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 538, 692-702.	0.7	84
34	The new vertical neutron beam line at the CERN n_TOF facility design and outlook on the performance. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 799, 90-98.	0.7	82
35	The n_TOF Total Absorption Calorimeter for neutron capture measurements at CERN. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 608, 424-433.	0.7	80
36	^{144}Sm optical potential at astrophysically relevant energies derived from ^{144}Sm elastic scattering. <i>Physical Review C</i> , 1997, 55, 1523-1531.	1.1	74

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37	\hat{I}^{\pm} -induced cross sections of Cd106 for the astrophysical process. Physical Review C, 2006, 74, . Neutron-induced fission cross section of U	1.1	74
38	U and Np cross sections. Physical Review C, 2006, 74, . Neutron-induced fission cross section of U and Np	1.1	72
39	High-accuracy determination of the neutron flux at n_TOF. European Physical Journal A, 2013, 49, 1.	1.0	71
40	Measurement of the $^{197}\text{Au}(n, \gamma)^{198}\text{Au}$ cross section at the n_TOF facility. Physical Review Letters, 2004, 93, 161103.	1.1	68
41	The Reaction Rate Sensitivity of Nucleosynthesis in Type II Supernovae. Astrophysical Journal, 1999, 521, 735-752.	1.6	67
42	Neutron Capture Cross Section Measurement of ^{151}Sm at the CERN Neutron Time of Flight Facility (n_TOF). Physical Review Letters, 2004, 93, 161103.	2.9	65
43	The role of fission in the r-process. Progress in Particle and Nuclear Physics, 2007, 59, 199-205.	5.6	65
44	Experimental simulation of a stellar photon bath by bremsstrahlung: the astrophysical \hat{I}^{\pm} -process. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 488, 127-130.	1.5	64
45	Dependence of direct neutron capture on nuclear-structure models. Physical Review C, 1998, 57, 2031-2039.	1.1	63
46	Oddisotope ^{113}In : Measurement of \hat{I}^{\pm} -induced reactions. Physical Review C, 2009, 79, .	1.1	63
47	Element synthesis in stars. Progress in Particle and Nuclear Physics, 2001, 46, 5-22.	5.6	62
48	Measurement of the (\hat{I}^{\pm}, n) cross section of the nucleus ^{197}Au close above the reaction threshold. Nuclear Physics A, 2002, 707, 241-252.	0.6	62
49	Stellar Neutron Capture on Promethium: Implications for the r-Process Neutron Density. Astrophysical Journal, 2003, 582, 1251-1262.	1.6	62
50	Measurement of the (\hat{I}^{\pm}, n) reaction rates of the nuclides ^{190}Pt , ^{192}Pt , and ^{198}Pt in the astrophysical \hat{I}^{\pm} process. Physical Review C, 2001, 63, .	1.1	61
51	Measurement of the $^{141}\text{Pr}(n, \gamma)^{142}\text{Pr}$ cross section at the n_TOF facility. Physical Review Letters, 2004, 93, 161103.	1.1	60
52	Measurement of the $^{7}\text{Be}(n, \gamma)^{8}\text{Be}$ cross section at the n_TOF facility. Physical Review Letters, 2004, 93, 161103.	2.9	58
53	Capture of particles by isospin-symmetric nuclei. Nuclear Physics A, 2000, 675, 695-721.	0.6	57
54	Impact of uncertainties in reaction Q values on nucleosynthesis in type I x-ray bursts. Physical Review C, 2009, 79, .	1.1	57

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55	92Mo($\hat{\pm}$, $\hat{\pm}$)92Moscattering, the92Mo $\hat{\pm}$ optical potential, and the96Ru($\hat{\pm}$, $\hat{\pm}$)92Moreaction rate at astrophysically relevant energies. Physical Review C, 2001, 64, . <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">Au</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>197</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>(<mml:math>T_j ETQq0 0 0 rgBT /Overlock 10	1.1	55
56	Resonance neutron-capture cross sections of stable magnesium isotopes and their astrophysical implications. Physical Review C, 2012, 85, .	1.1	55
57	Role of Core-collapse Supernovae in Explaining Solar System Abundances of p Nuclides. Astrophysical Journal, 2018, 854, 18.	1.6	55
58	Uncertainties in the production of<i>p</i>nuclei in massive stars obtained from Monte Carlo variations. Monthly Notices of the Royal Astronomical Society, 2016, 463, 4153-4166.	1.6	53
59	Cross section measurements of the 102Pd(p, $\hat{\pm}$)103Ag, 116Sn(p, $\hat{\pm}$)117Sb, and 112Sn($\hat{\pm}$, $\hat{\pm}$)116Te reactions relevant to the astrophysical rp- and $\hat{\pm}$ -processes. Nuclear Physics A, 2002, 710, 469-485.	0.6	52
60	Thesâ€Process Branching at185W. Astrophysical Journal, 2003, 583, 506-513.	1.6	52
61	FORMALISM FOR INCLUSION OF MEASURED REACTION CROSS SECTIONS IN STELLAR RATES INCLUDING UNCERTAINTIES AND ITS APPLICATION TO NEUTRON CAPTURE IN THE <i>s</i>-PROCESS. Astrophysical Journal Letters, 2012, 755, L10.	3.0	52
62	Large-scale prediction of the parity distribution in the nuclear level density and application to astrophysical reaction rates. Physical Review C, 2007, 75, .	1.1	51
63	Predicted cross-sections for photon-induced particle emission. Atomic Data and Nuclear Data Tables, 2004, 88, 1-81.	0.9	50
64	$\hat{\pm}$ - and neutron-induced reactions on ruthenium isotopes. Physical Review C, 2002, 66, .	1.1	47
65	Coulomb Suppression of the Stellar Enhancement Factor. Physical Review Letters, 2008, 101, 191101.	2.9	47
66	New measurement of neutron capture resonances inBi209. Physical Review C, 2006, 74, .	1.1	46
67	Mass Measurements of Very Neutron-Deficient Mo and Tc Isotopes and Their Impact onP-Process Nucleosynthesis. Physical Review Letters, 2011, 106, 122501.	2.9	46
68	TESTING THE ROLE OF SNe Ia FOR GALACTIC CHEMICAL EVOLUTION OF<i>p</i>-NUCLEI WITH TWO-DIMENSIONAL MODELS AND WITH<i>s</i>-PROCESS SEEDS AT DIFFERENT METALLICITIES. Astrophysical Journal, 2015, 799, 54.	1.6	46
69	Astrophysics and nuclei far from stabilities. Nuclear Physics A, 1994, 570, 329-343.	0.6	45
70	Elastic $\hat{\pm}$ scattering onSn112andSn124at astrophysically relevant energies. Physical Review C, 2005, 71, .	1.1	44
71	Neutron capture cross section ofZr Bottleneck in thes-process reaction flow. Physical Review C, 2008, 77, .	1.1	44
72			

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73	Alpha-induced reaction cross section measurements on ^{151}Eu for the astrophysical $\hat{\beta}$ -process. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 115201.	1.4	44
74	Determining reaction cross sections via characteristic X-ray detection: $\hat{\beta}$ -induced reactions on ^{169}Tm for the astrophysical $\hat{\beta}$ -process. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 695, 419-423.	1.5	44
75	Neutron Capture Cross Section of Unstable ^{63}Ni : Implications for Stellar Nucleosynthesis. Physical Review Letters, 2013, 110, 022501.	2.9	44
76	Proton capture cross sections of the ruthenium isotopes. Physical Review C, 1998, 58, 524-535.	1.1	43
77	OPPORTUNITIES TO CONSTRAIN ASTROPHYSICAL REACTION RATES FOR THE s -PROCESS VIA DETERMINATION OF THE GROUND-STATE CROSS-SECTIONS. Astrophysical Journal, 2011, 738, 143.	1.6	43
78	High-resolution neutron capture and transmission measurements, and the stellar neutron-capture cross section of ^{88}Sr . Physical Review C, 2000, 62, .	1.1	41
79	Neutron capture cross section of ^{232}Th measured at the n_TOF facility at CERN in the unresolved resonance region up to 1 MeV. Physical Review C, 2006, 73, .	1.1	41
80	The Karlsruhe Astrophysical Database of Nucleosynthesis in Stars Project "a6" Status and Prospects. Nuclear Data Sheets, 2014, 120, 171-174.	0.7	41
81	High-accuracy determination of the neutron flux in the new experimental area n_TOF-EAR2 at CERN. European Physical Journal A, 2017, 53, 1.	1.0	41
82	Nuclear data needs for the study of nucleosynthesis in massive stars. Nuclear Physics A, 2003, 718, 3-12.	0.6	40
83	Short-lived p-nuclides in the early solar system and implications on the nucleosynthetic role of X-ray binaries. Nuclear Physics A, 2003, 719, C287-C295.	0.6	40
84	Proton induced reaction cross section measurements on Se isotopes for the astrophysical p-process. Physical Review C, 2003, 68, .	1.1	40
85	Suppression of the stellar enhancement factor and the reaction $^{85}\text{Rb}(n,\gamma)^{86}\text{Rb}$. Physical Review C, 2003, 68, .	1.1	40
86	$^{147}\text{Sm}(n,\hat{\beta})$ cross section measurements from 3 eV to 500 keV: Implications for explosive nucleosynthesis reaction rates. Physical Review C, 2000, 62, .	1.1	39
87	Cross section measurements of $\hat{\beta}$ -induced reactions on $^{92,94}\text{Mo}$ and ^{112}Sn for p-process studies. Physical Review C, 2008, 78, .	1.1	39
88	Uncertainties in the production of p nuclides in thermonuclear supernovae determined by Monte Carlo variations. Monthly Notices of the Royal Astronomical Society, 2018, 474, 3133-3139.	1.6	39
89	$\hat{\beta}$ -induced reactions on ^{130}Ba and ^{132}Ba and their importance for the synthesis of RADIOGENIC ^{130}P -ISOTOPES FROM TYPE Ia SUPERNOVA, NUCLEAR PHYSICS UNCERTAINTIES, AND GALACTIC CHEMICAL EVOLUTION COMPARED WITH VALUES IN PRIMITIVE METEORITES. Astrophysical Journal, 2014, 795, 141.	1.1	38
90	RADIOGENIC ^{130}P -ISOTOPES FROM TYPE Ia SUPERNOVA, NUCLEAR PHYSICS UNCERTAINTIES, AND GALACTIC CHEMICAL EVOLUTION COMPARED WITH VALUES IN PRIMITIVE METEORITES. Astrophysical Journal, 2014, 795, 141.	1.6	38

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91	Approaching the Gamow Window with Stored Ions: Direct Measurement of $^{124}\text{Xe}(p,\hat{p}^3)$ in the ESR Storage Ring. <i>Physical Review Letters</i> , 2019, 122, 092701.	2.9	38
92	Study of short-lived silver isotopes with a laser ion source. <i>Zeitschrift für Physik A</i> , 1995, 353, 9-10.	0.9	37
93	Uncertainties in s-process nucleosynthesis in massive stars determined by Monte Carlo variations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, 1752-1767.	1.6	37
94	^{129}I and ^{247}Cm in meteorites constrain the last astrophysical source of solar r-process elements. <i>Science</i> , 2021, 371, 945-948.	6.0	37
95	First beta-decay studies of the neutron-rich isotopes ^{53}Sc and ^{56}V . <i>Nuclear Physics A</i> , 1998, 632, 205-228.	0.6	36
96	Neutron capture reaction rates for silicon and their impact on the origin of presolar mainstream SiC grains. <i>Physical Review C</i> , 2003, 67, .	1.1	36
97	Measurement of the $^{151}\text{Sm}(n,\hat{p}^3)$ cross section from 0.6 eV to 1 MeV via the neutron time-of-flight technique at the CERN n_TOF facility. <i>Physical Review C</i> , 2006, 73, . Neutron physics of the Re/Os clock. III. Resonance analyses and stellar ($T_{\text{ETQ}000\text{rgBT}/\text{Overlock } 10\text{Tf } 50\text{487Td}$) (xmlns=	1.1	36
98	cross sections of ^{170}Os and ^{171}Os . $\langle \text{multiscritps} \rangle \langle \text{mi mathvariant="normal"} \rangle \text{Os} \langle \text{mprescripts} \rangle$	1.1	36
99	cross sections of ^{205}Pb and ^{206}Pb . $\langle \text{multiscritps} \rangle \langle \text{mi mathvariant="normal"} \rangle \text{nat} \langle \text{mprescripts} \rangle$	1.1	36
100	Cross section predictions for hydrostatic and explosive burning. <i>Nuclear Physics A</i> , 2006, 777, 137-156.	0.6	35
101	Cross section predictions for hydrostatic and explosive burning. <i>Nuclear Physics A</i> , 2006, 777, 137-156.	1.1	35
102	Status and outlook of the neutron time-of-flight facility n_TOF at CERN. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 261, 925-929.	0.6	35
103	Constraints on rotational mixing from surface evolution of light elements in massive stars. <i>Astronomy and Astrophysics</i> , 2010, 522, A39.	2.1	35
104	Probing the Production of Actinides under Different r-process Conditions. <i>Astrophysical Journal</i> , 2019, 879, 47.	1.6	35
105	Measurements of proton radiative capture cross sections relevant to the astrophysical rp- and \hat{p}^3 -processes. <i>Nuclear Physics A</i> , 1999, 652, 391-405.	0.6	34
106	Cross section measurements of the $^{93}\text{Nb}(p,\hat{p}^3)^{94}\text{Mo}$ reaction at $E_p=1.4\text{--}4.9\text{MeV}$ relevant to the nucleosynthetic process. <i>Physical Review C</i> , 2001, 64, .	1.1	34
107	Time-energy relation of the n_TOF neutron beam: energy standards revisited. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 532, 622-630.	0.7	34
108	Experimental study of the ^{91}Zr reaction. $\langle \text{multiscritps} \rangle \langle \text{mi mathvariant="normal"} \rangle \text{Zr} \langle \text{mprescripts} \rangle$	1.1	34

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109	Sensitivity of the C and O production on the $3\hat{1}\pm$ rate. Astrophysics and Space Science, 2004, 291, 27-56.	0.5	33
110	The $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi mathvariant="normal"} \rangle \text{Zr} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle / \rangle \langle \text{mml:none} \rangle / \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 92 \langle \text{mml:mn} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:math} \rangle \langle \text{mml:math} \rangle \text{Tj ETQqO 0 0 1 1 rgBT / Overlock 10}$	1.1	33
111	Proton capture cross section of Sr isotopes and their importance for nucleosynthesis of proton-rich nuclides. Physical Review C, 2001, 64, .	1.1	32
112	Resonance capture cross section of $\text{Pb}207$. Physical Review C, 2006, 74, .	1.1	32
113	Measurement of the neutron capture cross section of the s-only isotope $\text{Pb}204$ from 1 eV to 440 keV. Physical Review C, 2007, 75, .	1.1	32
114	Solution of the $\hat{1}\pm$ -Potential Mystery in the $\hat{1}\beta$ Process and Its Impact on the Nd/Sm Ratio in Meteorites. Physical Review Letters, 2013, 111, 061104.	2.9	32
115	Neutron spectroscopy of ^{26}Mg states: Constraining the stellar neutron source $^{22}\text{Ne}(\hat{1}\pm, n)^{25}\text{Mg}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 1-6.	1.5	32
116	$^{70}\text{Ge}(\hat{1}\pm, \hat{1}\beta)^{74}\text{Se}$ cross section measurements at energies of astrophysical interest. Zeitschrift für Physik A, 1996, 355, 203-207.	0.9	31
117	Stellar neutron capture cross sections of Pr and Dy isotopes. Physical Review C, 1999, 59, 1154-1170.	1.1	31
118	^{176}Lu and ^{176}Hf : A Sensitive Test of s-Process Temperature and Neutron Density in AGB Stars. Astrophysical Journal, 2008, 673, 434-444.	1.6	31
119	^{62}Ni and ^{62}Zn cross section measurements at energies of astrophysical interest. Physical Review C, 2014, 89, .	1.1	31
120	GEANT4 simulation of the neutron background of the C6D6 set-up for capture studies at n_TOF. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 760, 57-67.	0.7	31
121	Challenges in nucleosynthesis of trans-iron elements. AIP Advances, 2014, 4, .	0.6	31
122	Measurement of the radiative neutron capture cross section of ^{206}Pb and its astrophysical implications. Physical Review C, 2007, 76, .	1.1	30
123	High-accuracy $^{233}\text{U}(n, f)$ cross-section measurement at the white-neutron source n_TOF from near-thermal to 1 MeV neutron energy. Physical Review C, 2009, 80, .	1.1	30
124	Alpha induced reaction cross section measurements on ^{162}Er for the astrophysical $\hat{1}\beta$ process. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 40-44.	1.5	30
125	Evolution and nucleosynthesis of massive stars and related nuclear uncertainties. Nuclear Physics A, 2003, 719, C73-C89.	0.6	29
126	Resonance analysis of $^{147}\text{Sm}(n, \hat{1}\pm)$ cross sections: Comparison to optical model calculations and indications of nonstatistical effects. Physical Review C, 2004, 69, .	1.1	29

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127	ation of the reaction $\text{Ge}(\text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td}$ $\text{Ge}(\text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Td}$	1.1	29
128	SILICON CARBIDE GRAINS OF TYPE C PROVIDE EVIDENCE FOR THE PRODUCTION OF THE UNSTABLE ISOTOPE ^{32}Si IN SUPERNOVAE. <i>Astrophysical Journal Letters</i> , 2013, 771, L7.	3.0	29
129	Direct neutron capture for magic-shell nuclei. <i>Physical Review C</i> , 1996, 53, 469-474. Neutron physics of the Re/Os clock. I. Measurement of the $\text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 647 Td}$	1.1	28
130	cross sections of ^{186}Os	1.1	28
131	Experimental neutron capture data of ^{187}Ni from the CERN n_TOF facility. <i>Physical Review C</i> , 2014, 89, .	1.1	28
132	Measurement of the angular distribution of fission fragments using a PPAC assembly at CERN n_TOF. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 743, 79-85.	0.7	28
133	Mass measurements of neutron-deficient Y, Zr, and Nb isotopes and their impact on rp and $\hat{r}_{1/2p}$ nucleosynthesis processes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 781, 358-363.	1.5	28
134	Uncertainties in s-process nucleosynthesis in low-mass stars determined from Monte Carlo variations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 478, 4101-4127.	1.6	28
135	An Approximation for the rp-process. <i>Astrophysical Journal</i> , 1997, 484, 412-423.	1.6	28
136	Reaction Rates for ^{146}Sm Production in Supernovae. <i>Astrophysical Journal</i> , 1995, 451, .	1.6	27
137	Astrophysical reaction rates for $^{10}\text{B}(p,\hat{\pm})^7\text{Be}$ and $^{11}\text{B}(p,\hat{\pm})^8\text{Be}$ from a direct model. <i>Physical Review C</i> , 1996, 53, 2496-2504.	1.1	27
138	s-process branchings at ^{151}Sm , ^{154}Eu , and ^{163}Dy . <i>Physical Review C</i> , 2001, 64, .	1.1	27
139	Nuclear Partition Functions at Temperatures Exceeding 10^{10} K. <i>Astrophysical Journal, Supplement Series</i> , 2003, 147, 403-408.	3.0	27
140	Nucleosynthesis and Stellar Evolution. <i>Astrophysics and Space Science</i> , 2002, 281, 25-37.	0.5	26
141	Measurement and resonance analysis of the ^{237}Np neutron capture cross section. <i>Physical Review C</i> , 2012, 85, .	1.1	26
142	A new CVD diamond mosaic-detector for $\text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 157 Td}$ at CERN. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 732, 190-194.	0.7	26
143	Measurements of the ^{243}Am neutron capture cross section at the n_TOF facility at CERN. <i>Physical Review C</i> , 2014, 89, .	1.1	26
144	Nuclear data activities at the n_TOF facility at CERN. <i>European Physical Journal Plus</i> , 2016, 131, 1.	1.2	26

#	ARTICLE	IF	CITATIONS
145	Improving explosive nucleosynthesis models via $(n, \hat{1}\pm)$ measurements. Nuclear Physics A, 2001, 688, 86-89.	0.6	25
146	Cross sections for proton-induced reactions on Pd isotopes at energies relevant for the $(n, \hat{1}\pm)$ process. Physical Review C, 2011, 84, .	1.1	25
147	Measurement and analysis of the $(n, \hat{1}\pm)$ cross sections. Physical Review C, 2011, 84, .	1.1	25
148	The $(n, \hat{1}\pm)$ cross sections of ^{139}La and ^{139}Ce . Physical Review C, 2011, 84, .	1.1	25
149	The endpoint of the rp-process on accreting neutron stars. Nuclear Physics A, 2001, 688, 150-153.	0.6	24
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