

# M Heil

## List of Publications by Year in descending order

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Version: 2024-02-01

101  
papers

2,885  
citations

159585

30  
h-index

182427

51  
g-index

101  
all docs

101  
docs citations

101  
times ranked

1763  
citing authors

#	ARTICLE	IF	CITATIONS
1	Isotopic cross sections of fragmentation residues produced by light projectiles on carbon near $400\text{ MeV}$ . Physical Review C, 2022, 105, .	2.9	2
2	Unveiling the two-proton halo character of $^{17}\text{Ne}$ : Exclusive measurement of quasi-free proton-knockout reactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136957.	4.1	6
3	NeuLAND: The high-resolution neutron time-of-flight spectrometer for R3B at FAIR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1014, 165701.	1.6	19
4	Strong Neutron Pairing in core+4n Nuclei. Physical Review Letters, 2018, 120, 152504.	7.8	9
5	Comparison of electromagnetic and nuclear dissociation of $^{17}\text{F}$ . Physical Review C, 2018, 97, .	2.9	7
6	Nuclear astrophysics at FRANZ. Journal of Physics: Conference Series, 2018, 940, 012024.	0.4	3
7	Structure of $^{13}\text{Be}$ studied in proton knockout from $^{14}\text{Be}$ . Physical Review C, 2016, 93, .	2.9	9
8	Spectroscopy of $^{61}\text{Fe}$ via the neutron transfer reaction $^{61}\text{Fe} + n \rightarrow ^{62}\text{Fe} + \gamma$ . Physical Review C, 2017, 95, .	2.9	8
9	Stellar ( $n, \hat{p}^3$ ) cross sections of $^{23}\text{Na}$ . Physical Review C, 2017, 95, .	2.9	7
10	Nuclear astrophysics with radioactive ions at FAIR. Journal of Physics: Conference Series, 2016, 665, 012044.	0.4	9
11	Stellar neutron capture cross sections of $^{41}\text{K}$ and $^{45}\text{Sc}$ . Physical Review C, 2016, 93, .	2.9	2
12	Exclusive measurements of quasi-free proton scattering reactions in inverse and complete kinematics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 204-210.	4.1	41
13	Performance of timing Resistive Plate Chambers with protons from 200 to 800 MeV. Journal of Instrumentation, 2015, 10, C01043-C01043.	1.2	8
14	Performance of timing resistive plate chambers with relativistic neutrons from 300 to 1500 MeV. Journal of Instrumentation, 2015, 10, C02034-C02034.	1.2	9
15	Increased isomeric lifetime of hydrogen-like $^{192}\text{Os}$ . Physical Review C, 2015, 91, .	2.9	12
16	Studies of continuum states in $^{16}\text{Ne}$ using three-body correlation techniques. European Physical Journal A, 2015, 51, 1.	2.5	10
17	Stellar neutron capture cross sections of $^{20}\text{Ne}$ and $^{21}\text{Ne}$ . Physical Review C, 2014, 90, .	2.9	17
18	Thermonuclear reaction $^{30}\text{S}(\text{p}, \hat{p}^3)^{31}\text{Cl}$ studied via Coulomb breakup of $^{31}\text{Cl}$ . Physical Review C, 2014, 89, .	2.9	15





#	ARTICLE	IF	CITATIONS
55	Nuclear physics for the Re/Os clock. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 014015.	3.6	8
56	Measurement of the stellar cross sections for the reactions $^9\text{Be}(n, \hat{1}^3)^{10}\text{Be}$ and $^{13}\text{C}(n, \hat{1}^3)^{14}\text{C}$ via AMS. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 014018.	3.6	22
57	Neutron capture cross sections for the weak $s$ -process in massive stars. Physical Review C, 2008, 77, .	2.9	51
58	Neutron capture cross sections for the weak $s$ -process in massive stars. Physical Review C, 2008, 77, .	2.9	61
59	cross sections for Br and Rb: Matching the weak and main $s$ -process components. Physical Review C, 2008, 78, .	2.9	27
60	$^{176}\text{Lu}/^{176}\text{Hf}$ : A Sensitive Test of $s$ -Process Temperature and Neutron Density in AGB Stars. Astrophysical Journal, 2008, 673, 434-444.	4.5	31
61	Stellar $(n, \hat{1}^3)$ cross sections of Hf174 and radioactive Hf182. Physical Review C, 2007, 75, .	2.9	35
62	The $^{139}\text{La}(n, \hat{1}^3)$ cross section: Key for the onset of the $s$ -process. Physical Review C, 2007, 75, .	2.9	24
63	The $s$ process in massive stars. Progress in Particle and Nuclear Physics, 2007, 59, 174-182.	14.4	10
64	Neutron reactions and nuclear cosmo-chronology. Progress in Particle and Nuclear Physics, 2007, 59, 165-173.	14.4	7
65	Status and outlook of the neutron time-of-flight facility n_TOF at CERN. Nuclear Instruments & Methods in Physics Research B, 2007, 261, 925-929.	1.4	35
66	Measurement of neutron induced fission of $^{235}\text{U}$ , $^{233}\text{U}$ and $^{245}\text{Cm}$ with the FIC detector at the CERN n_TOF facility. , 2007, , .		4
67	Lanthanum: An $s$ -Process Indicator. Astrophysical Journal, 2006, 647, 685-691.	4.5	17
68	Neutron cross section measurements at n-TOF for ADS related studies. Journal of Physics: Conference Series, 2006, 41, 352-360.	0.4	2
69	Measurement of the $^{151}\text{Sm}(n, \hat{1}^3)$ cross section from 0.6 eV to 1 MeV via the neutron time-of-flight technique at the CERN n_TOF facility. Physical Review C, 2006, 73, .	2.9	36
70	Neutron capture cross section of $^{232}\text{Th}$ measured at the n_TOF facility at CERN in the unresolved resonance region up to 1 MeV. Physical Review C, 2006, 73, .	2.9	41
71	Measurement of the $^{151}\text{Sm}(n, \hat{1}^3)^{152}\text{Sm}$ cross section at n_TOF. Nuclear Physics A, 2005, 758, 533-536.	1.5	7
72	Neutron capture cross section measurements for nuclear astrophysics at CERN n_TOF. Nuclear Physics A, 2005, 758, 501-504.	1.5	7

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73	A neutron source to measure stellar neutron capture cross sections at. Nuclear Physics A, 2005, 758, 529-532.	1.5	4
74	Measurements of the $^{90,91,92,94,96}\text{Zr}(n, \hat{1}^3)$ cross-sections at n_TOF. Nuclear Physics A, 2005, 758, 573-576.	1.5	2
75	The data acquisition system of the neutron time-of-flight facility n_TOF at CERN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 538, 692-702.	1.6	84
76	An independent measurement of the $^{12}\text{C}(\hat{1}^{\pm}, \hat{1}^3)^{16}\text{O}$ cross section with the Karlsruhe $4\pi$ BaF2 detector. Nuclear Physics A, 2005, 758, 415-418.	1.5	8
77	The $(n, \hat{1}^3)$ cross sections of the p-process nuclei $^{74}\text{Se}$ and $^{84}\text{Sr}$ at. Nuclear Physics A, 2005, 758, 513-516.	1.5	2
78	Stellar neutron capture rates of $^{14}\text{C}$ . Nuclear Physics A, 2005, 758, 787-790.	1.5	14
79	Stellar Neutron Capture on Neon Isotopes. AIP Conference Proceedings, 2005, , .	0.4	3
80	Stellar $(n, \hat{1}^3)$ Cross Section of $^{62}\text{Ni}$ . Physical Review Letters, 2005, 94, 092504.	7.8	72
81	Quasistellar spectrum for neutron activation measurements at $kT=5\text{keV}$ . Physical Review C, 2005, 71, .	2.9	27
82	Stellar neutron capture on $^{180}\text{Tm}$ . II. Defining the s-process contribution to nature's rarest isotope. Physical Review C, 2004, 69, .	2.9	16
83	Stellar neutron capture on $^{180}\text{Tm}$ . I. Cross section measurement between $10\text{keV}$ and $100\text{keV}$ . Physical Review C, 2004, 69, .	2.9	15
84	Neutron Capture Cross Section Measurement of $^{151}\text{Sm}$ at the CERN Neutron Time of Flight Facility (n_TOF). Physical Review Letters, 2004, 93, 161103.	7.8	65
85	Gamma spectroscopy using two Clover detectors in close geometry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 517, 230-239.	1.6	26
86	A low background neutron flux monitor for the n_TOF facility at CERN. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 517, 389-398.	1.6	75
87	Neutron capture measurements at a RIA-type facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 524, 215-226.	1.6	15
88	New experimental validation of the pulse height weighting technique for capture cross-section measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 521, 454-467.	1.6	101
89	Hyperdeformation and Clustering in the Actinide Region. Acta Physica Hungarica A Heavy Ion Physics, 2003, 18, 323-330.	0.4	5
90	Relationship between Hyperdeformation, Fission Resonances and Clustering in $^{233}\text{Th}$ . Acta Physica Hungarica A Heavy Ion Physics, 2003, 18, 331-332.	0.4	3

#	ARTICLE	IF	CITATIONS
91	An optimized C6D6 detector for studies of resonance-dominated ( $n, \hat{I}^3$ ) cross-sections. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 496, 425-436.	1.6	117
92	Nucleosynthesis in TP-AGB stars and the production of $^{19}\text{F}$ . Nuclear Physics A, 2003, 718, 155-158.	1.5	2
93	Neutron capture measurements on $^{171}\text{Tm}$ . Nuclear Physics A, 2003, 718, 478-480.	1.5	13
94	Neutron capture cross section of $^{139}\text{La}$ . Physical Review C, 2003, 68, .	2.9	28
95	Stellar Neutron Capture on Promethium: Implications for the $s$ -Process Neutron Density. Astrophysical Journal, 2003, 582, 1251-1262.	4.5	62
96	$\hat{I}^{\pm}$ - and neutron-induced reactions on ruthenium isotopes. Physical Review C, 2002, 66, .	2.9	47
97	DANCE Device for Measurement of ( $n, \langle i \rangle \hat{I}^3 \langle /i \rangle$ ) Reactions on Radioactive Species. Journal of Nuclear Science and Technology, 2002, 39, 614-619.	1.3	5
98	Alpha and neutron induced reactions on ruthenium. Nuclear Physics A, 2001, 688, 427-429.	1.5	9
99	A detector for ( $n, \hat{I}^3$ ) cross-section measurements at a spallation neutron source. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 459, 229-246.	1.6	124
100	Neutron Capture on $^{180}\text{Tm}$ : Clue for $s$ -Process Origin of Nature's Rarest Isotope. Physical Review Letters, 2001, 87, 251102.	7.8	37
101	Low-energy resonances in $^{14}\text{N}(\hat{I}^{\pm}, \hat{I}^3)^{18}\text{F}$ and their astrophysical implications. Physical Review C, 2000, 62, .	2.9	31