

Peter Mohr

List of Publications by Year in descending order

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51
papers

964
citations

394421

19
h-index

454955

30
g-index

51
all docs

51
docs citations

51
times ranked

607
citing authors

#	ARTICLE	IF	CITATIONS
1	Uniform \hat{I}_{\pm} -nucleus potential in a wide range of masses and energies. Physical Review C, 1996, 53, 1336-1347.	2.9	106
2	\hat{I}_{\pm} -nucleus potentials for the neutron-deficient nuclei. Physical Review C, 2000, 61, .	2.9	85
3	Alpha-cluster states of Po212 in a realistic potential model. Physical Review C, 1994, 50, 2631-2634.	2.9	50
4	Super-allowed \hat{I}_{\pm} decay above doubly-magic 100Sn and properties of 104Te = 100Sn $\hat{a}\hat{S} - \hat{I}_{\pm}$. European Physical Journal A, 2007, 31, 23-28.	2.5	47
5	Elastic alpha scattering experiments and the alpha-nucleus optical potential at low energies. Atomic Data and Nuclear Data Tables, 2013, 99, 651-679.	2.4	47
6	OPPORTUNITIES TO CONSTRAIN ASTROPHYSICAL REACTION RATES FOR THE s -PROCESS VIA DETERMINATION OF THE GROUND-STATE CROSS-SECTIONS. Astrophysical Journal, 2011, 738, 143.	4.5	43
7	The $^{15}\text{N}(\hat{I}_{\pm}, \hat{I}_{\pm}^3)^{19}\text{F}$ reaction and nucleosynthesis of ^{19}F . Physical Review C, 2002, 66, .	2.9	41
8	Photo-induced nucleosynthesis: Current problems and experimental approaches. European Physical Journal A, 2007, 32, 357-369.	2.5	36
9	\hat{I}_{\pm} -decay properties of ^{118}Sn from double-folding potential. Physical Review C, 2017, 95,		28
10	Successful Prediction of Total \hat{I}_{\pm} -Induced Reaction Cross Sections at Astrophysically Relevant Sub-Coulomb Energies Using a Novel Approach. Physical Review Letters, 2020, 124, 252701.	7.8	28
11	Benchmark on neutron capture extracted from ^{27}Al and $^{27}\text{Al}(n, \gamma)^{28}\text{Al}$ reaction. Physical Review C, 2019, 100, 044601.	2.9	27
12	Relation between total cross sections from elastic scattering and \hat{I}_{\pm} -induced reactions: The example of ^{64}Zn . Physical Review C, 2012, 86, .	2.9	26
13	$\ln(T_{\text{J}} \text{ETQq1 } 1.0784314 \text{ rgBT} / \text{Overlock } 10 \text{ Tf } 50.267 \text{ Td})$	2.9	25
14	Neutron capture of ^{26}Mg at thermonuclear energies. Physical Review C, 1998, 58, 932-941.	2.9	24
15	Cross sections of \hat{I}_{\pm} -induced reactions for targets with masses $A \approx 20$ at low energies. European Physical Journal A, 2015, 51, 1.	2.5	24
16	Measurement of neutron capture on ^{48}Ca at thermal and thermonuclear energies. Physical Review C, 1996, 54, 2014-2022.	2.9	21
17	Role of r -process conditions in neutrino-driven winds reexamined. Physical Review C, 2016, 94, .	2.9	21
18	Properties of ^8Be and ^{12}C deduced from the folding-potential model. Zeitschrift für Physik A, 1994, 349, 339-340.	0.9	19

#	ARTICLE	IF	CITATIONS
19	Statistical model analysis of \hat{I}_{\pm} -induced reaction cross sections of Zn at low energies. Physical Review C, 2016, 827, 29.	2.9	19
20	RE-EVALUATION OF THE O^{16} CROSS SECTION AT ASTROPHYSICAL ENERGIES AND ITS ROLE AS A NEUTRON POISON IN THE s -PROCESS. Astrophysical Journal, 2016, 827, 29.	4.5	18
21	\hat{I}_{\pm} -induced reaction cross sections of Zn	2.9	17
22	Low-energy direct capture in the $O^{16}(\hat{I}_{\pm}, \hat{I}^3)Ne^{20}$ reaction. Physical Review C, 2005, 72, .	2.9	16
23	Total reaction cross sections from Pr	2.9	15
24	α -cluster states in $^{46,54}Cr$ from double-folding potentials. European Physical Journal A, 2017, 53, 1.	2.5	15
25	Revised cross section of the C		
26	\hat{I}_{\pm} -induced reactions on ^{115}Zr : Cross section measurements and statistical model analysis. Physical Review C, 2018, 97,	2.9	13
27	reactions on Au	2.9	12
28	Astrophysical reaction rates of \hat{I}_{\pm} -induced reactions for nuclei with $Z \leq 26$	2.4	12
29	reactions on ^{38}Zr	2.9	11
30	Low-energy Measurement of the $Zr(\hat{I}_{\pm}, n)^{99}Mo$ Reaction Cross Section and Its Impact on Weak r-process Nucleosynthesis. Astrophysical Journal, 2021, 908, 202.	4.5	11
31	Activation thick target yield measurement of ^{100}Ru for studying the weak r -process nucleosynthesis. Physical Review C, 2021, 104, .	2.9	11
32	Relation between the $^{16}O(\hat{I}_{\pm}, \hat{I}^3)^{20}Ne$ reaction and its reverse $^{20}Ne(\hat{I}^3, \hat{I}_{\pm})^{16}O$ reaction in stars and in the laboratory. European Physical Journal A, 2006, 27, 75-78.	2.5	10
33	\hat{I}_{\pm} -Cluster States in Intermediate Mass Nuclei. The Open Nuclear & Particle Physics Journal, 2008, 1, 1-8.	1.0	9
34	Resonance strengths for the reaction $^{28}Si(\hat{I}_{\pm}, \hat{I}^3)^{32}S$ at low energies. Physical Review C, 2002, 66, .	2.9	8
35	Spectroscopic factors for bound-state wave functions derived from neutron scattering lengths. Physical Review C, 1997, 55, 1591-1593.	2.9	7
36	Uncertainty of the astrophysical O	2.9	7

#	ARTICLE	IF	CITATIONS
37	Cross-sections at sub-Coulomb energies: Full optical model versus barrier transmission for $^{40}\text{Ca} + \hat{1}\pm$. International Journal of Modern Physics E, 2019, 28, 1950029.	1.0	6
38	First direct measurement of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Cu} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \hat{1}\pm \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$: A step towards constraining the Ni-Cu cycle in the cosmos. Physical Review C, 2021, 104, .	2.9	6
39	Fusion cross section $\hat{1}\pm$ -induced reactions for heavy target nuclei. Physical Review C, 2022, 105, .	2.9	4
40	The ^{95}Zr ($n, \hat{1}^3$) ^{96}Zr Cross Section from the Surrogate Ratio Method and Its Effect on s-process Nucleosynthesis. Astrophysical Journal, 2017, 848, 98.	4.5	3
41	Cross sections of $\hat{1}\pm$ -induced reactions slightly below doubly magic Ca40 from the statistical model. Physical Review C, 2018, 98, .	2.9	3
42	Activation measurement of a-induced cross sections for ^{197}Au : analysis in the statistical model and beyond. Journal of Physics: Conference Series, 2020, 1668, 012042.	0.4	3
43	Measurement of the $^{100}\text{Mo}(\hat{1}\pm, n)^{101}\text{Sm}$ reaction relevant for High-precision $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Mo} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \hat{1}\pm \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{x} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{Sm} \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \hat{1}\pm \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \hat{1}\pm \langle \text{mml:mi} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:none} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ scattering at low energies and the rate of the $^{100}\text{Mo}(\hat{1}\pm, n)^{101}\text{Sm}$ reaction. Physical Review C, 2019, 99, .	2.9	3
44	Activation cross section measurement of the $^{100}\text{Mo}(\hat{1}\pm, n)^{103}\text{Ru}$ reaction for optical potential studies. Journal of Physics: Conference Series, 2020, 1668, 012041.	0.4	2
45	Yrast band in the heavy $N = Z$ nucleus ^{88}Ru : α -cluster approach. European Physical Journal A, 2020, 56, 1.	2.5	2
46	The ^{59}Fe ($n, \hat{1}^3$) ^{60}Fe Cross Section from the Surrogate Ratio Method and Its Effect on the ^{60}Fe Nucleosynthesis. Astrophysical Journal, 2021, 919, 84.	4.5	2
47	First direct measurement of the $^{13}\text{O}(\hat{1}\pm, n)^{14}\text{N}$ reaction relevant for ^{13}C Observation of annual modulation induced by ^{13}C rays from ^{13}C reactions at the Soudan Underground Laboratory. Physical Review C, 2020, 101, .	2.9	0
48	Comment on ^{13}C Observation of annual modulation induced by ^{13}C rays from ^{13}C reactions at the Soudan Underground Laboratory. Physical Review C, 2020, 101, .	2.9	0
49	Exploring the uncertainties of $\langle i \rangle \hat{1}\pm \langle i \rangle$, $\langle i \rangle \text{xn} \langle i \rangle$ reactions for the weak r-process. EPJ Web of Conferences, 2022, 260, 07003.	0.3	0