

Calem R Hoffman

List of Publications by Year in descending order

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147
papers

2,689
citations

172457

29
h-index

223800

46
g-index

151
all docs

151
docs citations

151
times ranked

1630
citing authors

#	ARTICLE	IF	CITATIONS
1	structures in $\langle \mathbb{N} \rangle$ and $\langle \mathbb{N} \rangle$ and $\langle \mathbb{N} \rangle$	2.9	0
2	Border of the island of inversion: Unbound states in $\langle \mathbb{N} \rangle$	2.9	2
3	reaction and its influence on the MgAl cycle in astrophysical environments. Physical Review C, 2022, 105, .	2.9	4
4	In-flight production of an isomeric beam of ^{16}N . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1032, 166612.	1.6	5
5	Single-particle and dipole excitations in $\langle \mathbb{N} \rangle$	2.9	5
6	mathvariant="normal">N</math>	2.9	1
7	cross section σ_{at} at weak $\langle \mathbb{N} \rangle$	2.9	1
8	Single-particle and collective excitations in $\langle \mathbb{N} \rangle$	2.9	1
9	mathvariant="normal">N</math>	2.9	1
10	Coriolis coupling effects in proton-pickup spectroscopic factors from B12. Physical Review C, 2021, 103, .	2.9	0
11	deformed shell gap: Rotational structures in $\langle \mathbb{N} \rangle$	2.9	2
12	mathvariant="normal">N</math>	2.9	3
13	reaction and its influence on the flux of cosmic $\langle \mathbb{N} \rangle$	2.9	1
14	Shapes, softness, and nonyrast collectivity in W186. Physical Review C, 2021, 104, .	2.9	1
15	Evolution of single-particle structure near the N=20 island of inversion. Physical Review C, 2021, 104, .	2.9	7
16	First Exploration of Neutron Shell Structure below Lead and beyond $\langle \mathbb{N} \rangle$	7.8	18
17	Extending the Southern Shore of the Island of Inversion to $\langle \mathbb{N} \rangle$	2.9	9
18	mathvariant="normal">F</math>	7.8	26

#	ARTICLE	IF	CITATIONS
19	Search for the $1/2^+$ intruder state in P35. Physical Review C, 2020, 102, .	2.9	0
20	Identification of γ -decaying resonant states in ^{26}Mg and their importance for the astrophysical s process. European Physical Journal A, 2019, 55, 1. Experimental study of the low-lying negative parity states in ^{11}Be using the ^{11}B	2.5	10
21	Experimental study of the low-lying negative parity states in ^{11}Be using the ^{11}B		

#	ARTICLE	IF	CITATIONS
37	<p>Evidence for Octupole Deformation in ^{146}Ba. <i>Physical Review C</i>, 2016, 93, .</p> <p>Structure of ^{146}Ba. <i>Physical Review C</i>, 2016, 93, .</p>	7.8	80
38	<p>Doubly magic ^{208}Pb: High-spin states, isomers, and E_{c}. <i>Physical Review C</i>, 2017, 95, .</p>	2.9	21
39	<p>collectivity in the yrast decay. <i>Physical Review C</i>, 2017, 95, .</p> <p>Study of the $^{20,22}\text{Ne}+^{20,22}\text{Ne}$ and $^{10,12,13,14,15}\text{C}+^{12}\text{C}$ Fusion Reactions with MUSIC. <i>EPJ Web of Conferences</i>, 2016, 117, 08009.</p>	0.3	2
40	<p>Neutron single-particle strengths at ^{40}N. <i>Physical Review C</i>, 2016, 94, .</p> <p>Neutron knockout from ^{40}N. <i>Physical Review C</i>, 2016, 94, .</p>	2.9	8
41	<p>^{23}Na and ^{26}Mg. <i>Physical Review C</i>, 2016, 94, .</p>	2.9	9
42	<p>Single-particle and collective excitations in ^{62}Ni. <i>Physical Review C</i>, 2016, 94, .</p>	2.9	12
43	<p>Population and decay of a ^{62}Ni isomer in ^{62}Ni. <i>Physical Review C</i>, 2016, 94, .</p>	2.9	5
44	<p>Ordering of the ^{62}Ni levels in light nuclei. <i>Physical Review C</i>, 2016, 94, .</p>	2.9	13
45	<p>In-beam γ-ray spectroscopy of ^{63}Mn. <i>Physical Review C</i>, 2016, 93, .</p>	2.9	4
46	<p>Structure of ^{14}C and ^{14}B. <i>Physical Review C</i>, 2016, 93, .</p>	2.9	15
47	<p>Change of nuclear configurations in the neutrinoless double-β-decay of ^{130}Te and ^{136}Xe. <i>Physical Review C</i>, 2016, 93, .</p>	2.9	26
48	<p>Independent measurement of the Hoyle state ^2He feeding from ^2B. <i>Physical Review C</i>, 2016, 93, .</p>	2.9	6
49	<p>^{144}Ba using Gammasphere. <i>Physical Review C</i>, 2016, 93, .</p>	7.8	118
50	<p>Persistence of collective behavior at high spin in the $N=88$ nucleus ^{153}Tb. <i>Physical Review C</i>, 2015, 91, .</p>	2.9	3
51	<p>Analogous intruder behavior near Ni, Sn, and Pb isotopes. <i>Physical Review C</i>, 2015, 92, .</p>	2.9	14
52	<p>Decay and Fission Hindrance of Two- and Four-Quasiparticle ^{254}Rf Isomers in ^{254}Rf. <i>Physical Review C</i>, 2015, 91, .</p>	7.8	36
53	<p>Shape coexistence in ^{67}Co, $^{66,68,70,72}\text{Ni}$, and ^{71}Cu. <i>AIP Conference Proceedings</i>, 2015, .</p>	0.4	3
54	<p>Octupole transitions in the ^{208}Pb region. <i>Journal of Physics: Conference Series</i>, 2015, 580, 012010.</p>	0.4	9

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55	Core excitations across the neutron shell gap in 207Tl. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 88-92.	4.1	15
56	High-spin terminating states in the ^{88}Zr nucleus. Physical Review C, 2015, 91, .	2.9	5
57	The case of ^{106}Zr and ^{106}Yb nuclei. Physical Review C, 2015, 91, .	2.9	10
58	Recent Results at Ultrahigh Spin: Terminating States and Beyond in Mass 160 Rare-earth Nuclei. Acta Physica Polonica B, 2015, 46, 487.	0.8	4
59	Identification of deformed intruder states in semi-magic ^{70}Ni nucleus. Physical Review C, 2015, 91, .	2.9	40
60	Structure of ^{207}Pb Populated in $^{208}\text{Pb} + ^{208}\text{Pb}$ Deep-inelastic Collisions. Acta Physica Polonica B, 2015, 46, 619.	0.8	3
61	In-beam γ -ray spectroscopy of $^{38,40,42}\text{Si}$. EPJ Web of Conferences, 2014, 66, 02070.	0.3	0
62	Study of ^{207}Tl Produced in Deep-Inelastic Reactions. EPJ Web of Conferences, 2014, 66, 02110.	0.3	1
63	Exploring the stability of super heavy elements: First Measurement of the Fission Barrier of ^{254}No . EPJ Web of Conferences, 2014, 66, 02046.	0.3	2
64	Fission Barrier of Superheavy Nuclei and Persistence of Shell Effects at High Spin: Cases of ^{254}No and ^{254}Lr . Physical Review C, 2014, 90, .	7.8	34
65	Multiple excitation modes in ^{163}Hf . Physical Review C, 2014, 90, .	2.9	3
66	Angular Distributions of γ Rays from ^{210}Bi Produced in $^{208}\text{Pb} + ^{208}\text{Pb}$ Deep-inelastic Reactions. Acta Physica Polonica B, 2014, 45, 205.	0.8	4
67	Stretched states in $^{12,13}\text{B}$ with the $(d, \hat{1}\pm)$ reaction. Physical Review C, 2014, 90, .	2.9	6
68	Nuclear Structure of Light Nuclei Near Threshold. Nuclear Physics News, 2014, 24, 16-21.	0.4	1
69	Direct Measurement of the ^{40}Ca Nucleus. Physical Review C, 2014, 90, .	7.8	35
70	Direct Measurement of the ^{23}Na Nucleus. Physical Review C, 2014, 90, .	7.8	19
71	Structure of ^{151}Pu and ^{151}Cm nuclei under rotational stress: Role of higher-order deformations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 739, 13-18.	4.1	10
72	Neutron s states in loosely bound nuclei. Physical Review C, 2014, 89, .	2.9	35

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73	Evolution of Single-Particle Energies for N=9 Nuclei at Large N/Z. EPJ Web of Conferences, 2014, 66, 03098.	0.3	0
74	Configuration mixing and relative transition rates between low-spin states in ^{68}Ni . Physical Review C, 2013, 88, .	2.9	60
75	Determining the $^{7}\text{Li}(n,\hat{t}^3)$ cross section via Coulomb dissociation of ^8Li . Physical Review C, 2013, 88, .	2.9	12
76	In-Beam \hat{t}^3 -Ray Spectroscopy of ^{34}Mg . Physical Review C, 2013, 88, .	7.8	92
77	Merging the odd-odd states in ^{62}Ca . Physics Letters, Section B: Nuclear, Elem	4.1	13
78	Valence nucleon populations in the Ni isotopes. Physical Review C, 2013, 87, .	2.9	51
79	Structure of ^{14}B and the evolution of N=9 single-neutron isotones. Physical Review C, 2013, 88, .	2.9	19
80	Publisher's Note: Fusion Reactions with the One-Neutron Halo Nucleus ^{15}C [Phys. Rev. Lett. 106, 172701 (2011)]. Physical Review Letters, 2013, 111, .	7.8	0
81	Single-particle and collective excitations in ^{63}Ni . Physical Review C, 2013, 88, .	2.9	16
82	Neutron single-particle strength outside the core. Physical Review C, 2013, 87, .	2.9	32
83	Quadrupole moments of coexisting collective shapes at high spin in ^{154}Er . Physical Review C, 2013, 88, .	2.9	5
84	Identification of triaxial strongly deformed bands in ^{164}Hf . Physical Review C, 2013, 88, .	2.9	7
85	Single-neutron excitations in ^{18}N . Physical Review C, 2013, 88, .	2.9	8
86	EXOTIC BEHAVIOR AT ULTRAHIGH SPIN VALUES IN LIGHT RARE-EARTH N~90 NUCLEI. , 2013, , .		0
87	Test of Sum Rules in Nucleon Transfer Reactions. Physical Review Letters, 2012, 108, 022501.	7.8	55
88	Lifetime of the ^{10}C in ^{10}C . Physical Review C, 2012, 86, .	2.9	30
89	Multi-intruder structures in ^{34}P . Physical Review C, 2012, 85, .	2.9	13
90	Well Developed Deformation in ^{42}Si . Physical Review Letters, 2012, 109, 182501.	7.8	94

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91	Unbound states and the non-observation of a proposed 2202 keV $0^+_{g.s.}$ isomer in ^{66}Ni . Experimental study of the $0^+_{g.s.}$ isomer in ^{66}Ni . $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$	2.9	36
92	Experimental study of the $0^+_{g.s.}$ isomer in ^{66}Ni . $\frac{1}{2} \times \frac{1}{2} = \frac{1}{4}$	2.9	19
93	Competing single-particle and collective behavior in ^{71}Se . Physical Review C, 2012, 86, .	2.9	2
94	A digital data acquisition system for the detectors at gammasphere. , 2012, , .		3
95	Investigating trends in proton single-particle states in $Z=51$ isotopes using transfer reactions. Journal of Physics: Conference Series, 2012, 381, 012099.	0.4	1
96	HELIOS - progress and possibilities. Journal of Physics: Conference Series, 2012, 381, 012095.	0.4	1
97	Trends in the $g_{7/2}$ and $h_{11/2}$ neutron single-particle energies in $N=51$ isotones. Journal of Physics: Conference Series, 2012, 381, 012100.	0.4	0
98	Studying X-ray Burst Nucleosynthesis in the Laboratory. Journal of Physics: Conference Series, 2012, 403, 012033.	0.4	2
99	Collective structures up to spin $\sim 65\hbar$ in the $N=90$ isotones ^{158}Er and ^{157}Ho . Journal of Physics: Conference Series, 2012, 381, 012065.	0.4	5
100	Neutron unbound states in ^{28}Ne and ^{25}F . Physical Review C, 2012, 86, .	2.9	6
101	Yrast structure of ^{206}Bi : Isomeric states and one-proton-particle, three-neutron-hole excitations. Physical Review C, 2012, 86, .	2.9	15
102	Band structures and shape coexistence in ^{187}Pt . European Physical Journal A, 2012, 48, 1.	2.5	2
103	Study of valence neutrons in ^{136}Xe with HELIOS. Journal of Physics: Conference Series, 2011, 312, 092034.	0.4	0
104	The deformed $0^+_{g.s.}$ state in ^{34}Si . Journal of Physics: Conference Series, 2011, 312, 092050.	0.4	5
105	Fusion reactions with the one-neutron halo nucleus ^{15}C . EPJ Web of Conferences, 2011, 17, 13003.	0.3	0
106	Transition strengths and the role of the $f_{7/2}$ orbital in ^{71}As . Physical Review C, 2011, 83, .	2.9	8
107	Single-neutron energies outside ^{136}Xe . Physical Review C, 2011, 84, .	2.9	28
108	Seniority, collectivity, and ^{72}Ni . Physical Review C, 2011, 84, .	2.9	22

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109	Observation of a two-neutron cascade from a resonance in O_{24} . Physical Review C, 2011, 83, .	2.9	42
110	Spectroscopy of Neutron-rich Pu Nuclei. AIP Conference Proceedings, 2011, .	0.4	2
111	Structure of C_{16} . Physical Review C, 2010, 81, .	2.9	26
112	First observation of excited states in Li_{12} . Physical Review C, 2010, 81, .	2.9	26
113	Collectivity at $N=40$ in neutron-rich Cr_{64} . Physical Review C, 2009, 80, .	2.9	107
114	Cross-shell excitations near the β -island of inversion: Structure of Mg_{30} . Physical Review C, 2010, 82, .	2.9	22
115	First Experiment with HELIOS: The Structure of B_{13} . Physical Review Letters, 2010, 104, 132501, .	7.8	36
116	TripathietÅal.Reply:. Physical Review Letters, 2010, 104, .	7.8	5
117	THE HELIOS SPECTROMETER AND THE RADIOACTIVE BEAM PROGRAM AT ARGONNE. International Journal of Modern Physics E, 2010, 19, 825-836.	1.0	1
118	Low-energy structure of Mn_{61} populated following β^2 decay of Cr_{61} . Physical Review C, 2009, 79, .	2.9	18
119	Disappearance of the $N=14$ shell. Physical Review C, 2009, 80, .	2.9	28
120	Approaching the β -island of inversion: Structure of He_{7} . Physical Review C, 2009, 80, .	2.9	28
121	Structure of He_{7} from He_{8} . Physical Review C, 2008, 77, .	2.9	23
122	Linear polarization measurements and negative-parity states in Sr_{80} . Physical Review C, 2008, 78, .	2.9	2
123	Determination of the $N=16$ Shell Closure at the Oxygen Drip Line. Physical Review Letters, 2008, 100, 152502.	7.8	137
124	Complementary studies of $T=2Al_{30}$ and the systematics of intruder states. Physical Review C, 2008, 77, .	2.9	16
125	Excited intruder states in Mg_{32} . Physical Review C, 2008, 77, .	2.9	34
126	Intruder Configurations in the $A=33$ Isobars: Mg_{33} and Al_{33} . Physical Review C, 2008, 77, .	7.8	56

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127	SPECTROSCOPY OF 28,29,30NA: EVOLUTION OF SHELL STRUCTURE WITH ISOSPIN. , 2008, , .		0
128	High-spin states and deformation properties in 187Pt. AIP Conference Proceedings, 2007, , .	0.4	1
129	Competition between normal and intruder states inside the "island of inversion". Physical Review C, 2007, 76, .	2.9	28
130	Transition strengths and degree of deformation in Sr79. Physical Review C, 2007, 75, .	2.9	7
131	Electromagnetic transitions in neutron-rich F22. Physical Review C, 2007, 76, .	2.9	6
132	Astrophysical Reaction Rate for the Neutron-Generator Reaction C13($\hat{1}\pm, n$)O16 in Asymptotic Giant Branch Stars. Physical Review Letters, 2006, 97, 192701.	7.8	41
133	$\hat{1}^2$ -delayed $\hat{1}^3$ spectroscopy of neutron rich Na27,28,29. Physical Review C, 2006, 73, .	2.9	45
134	Structure of Na26 from the C14(C14,d) reaction. Physical Review C, 2006, 73, .	2.9	10
135	Study of the (21+) isomer in 94Ag. European Physical Journal A, 2005, 25, 131-133.	2.5	9
136	Voyage to the "island of Inversion" 29Na. European Physical Journal A, 2005, 25, 101-103.	2.5	8
137	Observation of Proton Radioactivity of the (21+) High-Spin Isomer in Ag94. Physical Review Letters, 2005, 95, 022501.	7.8	56
138	\hat{p}^{\sim} sd Shell Gap Reduction in Neutron-Rich Systems and Cross-Shell Excitations in O20. Physical Review Letters, 2005, 94, 132501.	7.8	20
139	Spectroscopy of Ne25 and the N=16 magic number. Physical Review C, 2005, 72, .	2.9	17
140	Na29: Defining the Edge of the Island of Inversion for Z=11. Physical Review Letters, 2005, 94, 162501.	7.8	73
141	Study of the (21+) isomer in 94Ag. , 2005, , 131-133.		0
142	Voyage to the "island of Inversion" 29Na. , 2005, , 101-103.		0
143	Collective excitations and shape changes in Y80. Physical Review C, 2004, 69, .	2.9	7
144	$\hat{1}^2$ -delayed proton decay of a high-spin isomer in A94g. Physical Review C, 2004, 70, .	2.9	42

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145	Structure of $T=224\text{Ne}$ from 14C on 14C . Physical Review C, 2003, 68, .	2.9	9
146	$T=52\text{Ne}$, 27Na from $14\text{C}+14\text{C}$, and the $N=16$ shell gap. Physical Review C, 2002, 65, .	2.9	18
147	Intruder Configurations in the $A=33$ Isobars: $\text{Mg}33$ and $\text{Al}33$. , 0, .		1