

# Calem R Hoffman

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1025119/publications.pdf>

Version: 2024-02-01

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	Determination of the $N=16$ Shell Closure at the Oxygen Drip Line. Physical Review Letters, 2008, 100, 152502.	7.8	137
2	Direct Evidence of Octupole Deformation in Neutron-Rich $Ba$ . Physical Review Letters, 2010, 105, 112501.	7.8	118
3	Well Developed Deformation in Neutron-Rich $Cr$ . Physical Review Letters, 2010, 105, 112503.	2.9	107
4	Well Developed Deformation in $Si$ . Physical Review Letters, 2012, 109, 182501.	7.8	94
5	$\hat{I}^3$ -Ray Spectroscopy of $Mg$ . Physical Review Letters, 2010, 105, 112501.	7.8	92
6	Direct Evidence for Octupole Deformation in $Ba$ . Physical Review Letters, 2010, 105, 112501.	7.8	80
7	and the Origin of Large $\hat{I}^3$ Decay to Doubly Magic $Sr$ . Physical Review Letters, 2010, 105, 112501.	7.8	76
8	$Na_{29}$ : Defining the Edge of the Island of Inversion for $Z=11$ . Physical Review Letters, 2005, 94, 162501.	7.8	73
9	Reaction rate for carbon burning in massive stars. Physical Review C, 2018, 97, .	2.9	69
10	Configuration mixing and relative transition rates between low-spin states in $Ni$ . Physical Review C, 2013, 88, .	2.9	60
11	Observation of Proton Radioactivity of the $(21^+)$ High-Spin Isomer in $Ag_{94}$ . Physical Review Letters, 2005, 95, 022501.	7.8	56
12	Intruder Configurations in the $Mg$ Isobars: $Mg_{33}$ and $Mg_{34}$ . Physical Review Letters, 2005, 95, 022501.	7.8	56
13	Test of Sum Rules in Nucleon Transfer Reactions. Physical Review Letters, 2012, 108, 022501.	7.8	55
14	Valence nucleon populations in the $Ni$ isotopes. Physical Review C, 2013, 87, .	2.9	51
15	$\hat{I}^2$ -delayed $\hat{I}^3$ spectroscopy of neutron rich $Na_{27,28,29}$ . Physical Review C, 2006, 73, .	2.9	45
16	$\hat{I}^2$ -delayed proton decay of a high-spin isomer in $A_{94}g$ . Physical Review C, 2004, 70, .	2.9	42
17	Observation of a two-neutron cascade from a resonance in $O_{24}$ . Physical Review C, 2011, 83, .	2.9	42

#	ARTICLE	IF	CITATIONS
19	Astrophysical Reaction Rate for the Neutron-Generator Reaction $C^{13}(\hat{n},n)O^{16}$ in Asymptotic Giant Branch Stars. <i>Physical Review Letters</i> , 2006, 97, 192701.	7.8	41
20	Identification of deformed intruder states in semi-magic $Ni$ . <i>Physical Review C</i> , 2015, 91, .	2.9	40
21	First Experiment with HELIOS: The Structure of Low-spin states and the non-observation of a proposed $2202\text{-keV}$ $\gamma$ transition. <i>Physical Review Letters</i> , 2010, 104, 132501.	7.8	36
22	Isomers in $Ni$ . <i>Physical Review C</i> , 2012, 85, .	2.9	36
23	Isomers in $Ni$ . <i>Physical Review C</i> , 2012, 85, .	7.8	36
24	Nuclear Structure Towards $Ca$ . <i>Physical Review C</i> , 2014, 89, .	2.9	35
25	Neutron s states in loosely bound nuclei. <i>Physical Review C</i> , 2014, 89, .	2.9	35
26	Excited intruder states in $Mg$ . <i>Physical Review C</i> , 2008, 77, .	2.9	34
27	Excited intruder states in $No$ and $Ca$ . <i>Physical Review C</i> , 2013, 87, .	7.8	34
28	Neutron single-particle strength outside the core. <i>Physical Review C</i> , 2013, 87, .	2.9	32
29	Lifetime of the $C$ . <i>Physical Review C</i> , 2013, 87, .	2.9	30
30	Masses and $\beta$ -Decay Spectroscopy of Neutron-Rich Odd-Odd $Eu$ . <i>Physical Review C</i> , 2013, 87, .	7.8	29
31	Competition between normal and intruder states inside the $\epsilon$ -island of inversion. <i>Physical Review C</i> , 2007, 76, .	2.9	28
32	Approaching the $\epsilon$ -island of inversion. <i>Physical Review C</i> , 2009, 80, .	2.9	28
33	Single-neutron energies outside $Xe$ . <i>Physical Review C</i> , 2011, 84, .	2.9	28
34	First observation of excited states in $Li^{12}$ . <i>Physical Review C</i> , 2010, 81, .	2.9	26
35	Change of nuclear configurations in the neutrinoless double- $\beta$ decay of $Te^{130}$ and $Xe^{136}$ . <i>Physical Review C</i> , 2016, 93, .	2.9	26
36	Extending the Southern Shore of the Island of Inversion to $F$ . <i>Physical Review Letters</i> , 2020, 124, 152502.	7.8	26





#	ARTICLE	IF	CITATIONS
73	Study of the ( 21+) isomer in 94Ag. European Physical Journal A, 2005, 25, 131-133.	2.5	9
74	Octupole transitions in the $^{208}\text{Pb}$ region. Journal of Physics: Conference Series, 2015, 580, 012010.	0.4	9
75	High- $K$ , two-quasiparticle states in $^{160}\text{Gd}$ . Physical Review C, 2020, 101, .	2.9	9
76	Voyage to the Île of Inversionâ€” $^{29}\text{Na}$ . European Physical Journal A, 2005, 25, 101-103.	2.5	8
77	Transition strengths and the role of the $7/2$ orbital in $^{71}\text{As}$ . Physical Review C, 2011, 83, .	2.9	8
78	Single-neutron excitations in $^{18}\text{N}$ . Physical Review C, 2013, 88, .	2.9	8
79	Transition strengths at $^{40}\text{Ni}$ , 42: Neutron knockout from $^{68}\text{Ni}$ .	2.9	8
80	Collective excitations and shape changes in $^{80}\text{Y}$ . Physical Review C, 2004, 69, .	2.9	7
81	Transition strengths and degree of deformation in $^{79}\text{Sr}$ . Physical Review C, 2007, 75, .	2.9	7
82	Identification of triaxial strongly deformed bands in $^{164}\text{Hf}$ .	2.9	7
83	$^{11}\text{Be}$ using the $B$		

#	ARTICLE	IF	CITATIONS
91	Collective structures up to spin $\sim 65$ in the $N = 90$ isotones $^{158}\text{Er}$ and $^{157}\text{Ho}$ . Journal of Physics: Conference Series, 2012, 381, 012065.	0.4	5
92	Quadrupole moments of coexisting collective shapes at high spin in $^{154}\text{Er}$ . Physical Review C, 2013, 88, .	2.9	5
93	Population and decay of a $^{88}\text{Ho}$ isomer in $^{88}\text{Y}$ . Physical Review C, 2017, 95, .	2.9	5
94	Production of a $^{155}\text{Pu}$ isomer in $^{155}\text{Am}$ . Physical Review C, 2017, 95, .	2.9	5
95	In-flight production of an isomeric beam of $^{16}\text{N}$ . Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1032, 166612.	1.6	5
97	Single-particle and dipole excitations in $^{62}\text{Co}$ . Physical Review C, 2022, 105, .	2.9	5
98	Angular Distributions of $\gamma$ Rays from $^{210}\text{Bi}$ Produced in $^{208}\text{Pb} + ^{208}\text{Pb}$ Deep-inelastic Reactions. Acta Physica Polonica B, 2014, 45, 205.	0.8	4
99	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
100	In-beam $\gamma$ -ray spectroscopy of $^{63}\text{Mn}$ . Physical Review C, 2016, 93, .	2.9	4
101	Revised decay properties of the key 93-keV resonance in the $^{153}\text{Gd}$ nucleus. Physical Review C, 2017, 95, .	2.9	4
102	Reaction and its influence on the $\text{MgAl}$ cycle in astrophysical environments. Physical Review C, 2022, 105, .	2.9	4
103	A digital data acquisition system for the detectors at gammasphere. , 2012, , .		3
104	Multiple excitation modes in $^{163}\text{Hf}$ . Physical Review C, 2014, 90, .	2.9	3
105	Persistence of collective behavior at high spin in the $N = 88$ nucleus $^{153}\text{Tb}$ . Physical Review C, 2015, 91, .	2.9	3
106	Shape coexistence in $^{67}\text{Co}$ , $^{66}\text{Ni}$ , $^{70}\text{Ni}$ , and $^{71}\text{Cu}$ . AIP Conference Proceedings, 2015, , .	0.4	3
107	Structure of $^{207}\text{Pb}$ Populated in $^{208}\text{Pb} + ^{208}\text{Pb}$ Deep-inelastic Collisions. Acta Physica Polonica B, 2015, 46, 619.	0.8	3
108	$\beta^\pm$ decay of the $T = 1, A = 2^+$ state in $^{10}\text{B}$ and isospin symmetry breaking in the $A = 10$ triplet. Physical Review C, 2017, 96, .	2.9	3

#	ARTICLE	IF	CITATIONS
109	Experimental study of the effective nucleon-nucleon interaction using the F21(d,p)F22 reaction. Physical Review C, 2018, 98, .	2.9	3
110	Configuration mixing in $^{28}\text{Mg}$ and the $^{26}\text{Mg}$ $\alpha$ -decay. Physical Review C, 2018, 98, .	2.9	3
111	$^{100}\text{Mo}$ $\alpha$ -decay: $Q_\alpha$ and $\log_{10} t_{1/2}$ cross section at weak energy. Physical Review C, 2018, 98, .	2.9	3
112	Linear polarization measurements and negative-parity states in $^{80}\text{Sr}$ . Physical Review C, 2008, 78, .	2.9	2
113	Spectroscopy of Neutron-rich Pu Nuclei. AIP Conference Proceedings, 2011, , .	0.4	2
114	Competing single-particle and collective behavior in $^{71}\text{Se}$ . Physical Review C, 2012, 86, .	2.9	2
115	Studying X-ray Burst Nucleosynthesis in the Laboratory. Journal of Physics: Conference Series, 2012, 403, 012033.	0.4	2
116	Band structures and shape coexistence in $^{187}\text{Pt}$ . European Physical Journal A, 2012, 48, 1.	2.5	2
117	Exploring the stability of super heavy elements: First Measurement of the Fission Barrier of $^{254}\text{No}$ . EPJ Web of Conferences, 2014, 66, 02046.	0.3	2
118	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. EPJ Web of Conferences, 2016, 117, 08009.	0.3	2
119	Possible quenching of static neutron pairing near the deformed shell gap: Rotational structures in $^{160}\text{Gd}$ . Physical Review C, 2018, 98, .	2.9	2
120	Border of the island of inversion: Unbound states in $^{161}\text{Ne}$ . Physical Review C, 2022, 105, .	2.9	2
121	$^{13}\text{O}$ $\alpha$ -decay: $Q_\alpha$ and $\log_{10} t_{1/2}$ reaction relevant for core-c. Physical Review C, 2018, 98, .	2.9	2
122	High-spin states and deformation properties in $^{187}\text{Pt}$ . AIP Conference Proceedings, 2007, , .	0.4	1
123	THE HELIOS SPECTROMETER AND THE RADIOACTIVE BEAM PROGRAM AT ARGONNE. International Journal of Modern Physics E, 2010, 19, 825-836.	1.0	1
124	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
125	HELIOS - progress and possibilities. Journal of Physics: Conference Series, 2012, 381, 012095.	0.4	1
126	Study of $^{207}\text{Tl}$ Produced in Deep-Inelastic Reactions. EPJ Web of Conferences, 2014, 66, 02110.	0.3	1



#	ARTICLE	IF	CITATIONS
145	Search for the $1/2+$ intruder state in P35. Physical Review C, 2020, 102, .	2.9	0
146	Voyage to the "Island of Inversion" $^{29}\text{Na}$ . , 2005, , 101-103.		0
147	structures in $^{29}\text{Na}$ and $^{29}\text{Mg}$ . Physical Review Letters, 2005, 95, 102501.	2.9	0