

Sean J Freeman

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

146
papers

3,896
citations

34
h-index

55
g-index

173
ext. papers

4,216
ext. citations

3
avg, IF

3.83
L-index

#	Paper	IF	Citations
146	Evolution of single-particle structure near the N=20 island of inversion. <i>Physical Review C</i> , 2021 , 104,	2.7	2
145	First Exploration of Neutron Shell Structure below Lead and beyond N=126. <i>Physical Review Letters</i> , 2020 , 124, 062502	7.4	7
144	Electromagnetic properties of low-lying states in neutron-deficient Hg isotopes: Coulomb excitation of 182Hg, 184Hg, 186Hg and 188Hg. <i>European Physical Journal A</i> , 2019 , 55, 1	2.5	9
143	Pairing properties of the double- β -emitter Cd116. <i>Physical Review C</i> , 2019 , 100,	2.7	2
142	Study of medium-spin states of neutron-rich 87, 89, 91Rb isotopes. <i>European Physical Journal A</i> , 2019 , 55, 1	2.5	
141	Structure of Fe70: Single-particle and collective degrees of freedom. <i>Physical Review C</i> , 2019 , 99,	2.7	9
140	Terminating states in the positive-parity structures of As67. <i>Physical Review C</i> , 2018 , 98,	2.7	3
139	Isomers and high-spin structures in the N=81 isotones Xe135 and Ba137. <i>Physical Review C</i> , 2017 , 95,	2.7	8
138	High-spin structures in Xe132 and Xe133 and evidence for isomers along the N=79 isotones. <i>Physical Review C</i> , 2017 , 96,	2.7	11
137	Experimental study of the rearrangements of valence protons and neutrons amongst single-particle orbits during double- β -decay in Mo100. <i>Physical Review C</i> , 2017 , 96,	2.7	8
136	In-beam β -ray spectroscopy of Mn63. <i>Physical Review C</i> , 2016 , 93,	2.7	3
135	High-spin structure of Xe134. <i>Physical Review C</i> , 2016 , 93,	2.7	9
134	Change of nuclear configurations in the neutrinoless double- β -decay of Te130-Ke130 and Xe136-Ba136. <i>Physical Review C</i> , 2016 , 93,	2.7	18
133	Rearrangement of valence neutrons in the neutrinoless double- β -decay of Xe136. <i>Physical Review C</i> , 2016 , 94,	2.7	13
132	TSR: A Storage Ring for HIE-ISOLDE. <i>Acta Physica Polonica B</i> , 2016 , 47, 627	1.9	2
131	Configurations and decay hindrances of high-K states in Hf180. <i>Physical Review C</i> , 2016 , 94,	2.7	2
130	High-spin states beyond the proton drip-line: Quasiparticle alignments in 113 Cs. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2015 , 740, 243-249	4.2	4

129	Collectivity in the light radon nuclei measured directly via Coulomb excitation. <i>Physical Review C</i> , 2015 , 91,	2.7	8
128	Shape coexistence in the neutron-deficient even-even (182-188)Hg isotopes studied via coulomb excitation. <i>Physical Review Letters</i> , 2014 , 112, 162701	7.4	84
127	Quenching of cross sections in nucleon transfer reactions. <i>Physical Review Letters</i> , 2013 , 111, 042502	7.4	46
126	Valence nucleon populations in the Ni isotopes. <i>Physical Review C</i> , 2013 , 87,	2.7	41
125	Proton pair correlations and the neutrinoless double- β decay of ^{76}Ge . <i>Physical Review C</i> , 2013 , 87,	2.7	9
124	Neutron single-particle strength outside the N=50 core. <i>Physical Review C</i> , 2013 , 87,	2.7	25
123	Valence neutron properties relevant to the neutrinoless double- β decay of ^{130}Te . <i>Physical Review C</i> , 2013 , 87,	2.7	31
122	Storage ring at HIE-ISOLDE. <i>European Physical Journal: Special Topics</i> , 2012 , 207, 1-117	2.3	84
121	β ray spectroscopy of neutron-deficient ^{123}Ce . <i>Physical Review C</i> , 2012 , 86,	2.7	3
120	β ray spectroscopy of the odd-odd N=Z+2 deformed proton emitter ^{112}Cs . <i>Physical Review C</i> , 2012 , 85,	2.7	10
119	Neutron pair correlations in A=100 nuclei involved in neutrinoless double- β decay. <i>Physical Review C</i> , 2012 , 86,	2.7	18
118	Magnetic rotation and quasicollective structures in ^{58}Fe : Influence of the $g_{9/2}$ orbital. <i>Physical Review C</i> , 2012 , 85,	2.7	34
117	Test of sum rules in nucleon transfer reactions. <i>Physical Review Letters</i> , 2012 , 108, 022501	7.4	42
116	Intermediate-energy Coulomb excitation of $^{58,60,62}\text{Cr}$: The onset of collectivity toward N=40. <i>Physical Review C</i> , 2012 , 86,	2.7	46
115	Experimental study of the $^{19}\text{O}(d,p)^{20}\text{O}$ reaction in inverse kinematics. <i>Physical Review C</i> , 2012 , 85,	2.7	17
114	Constraining the $0^+\pi$ matrix elements by nuclear structure observables. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2012 , 39, 124004	2.9	34
113	Neutron-hole strength in the N= 81 isotones. <i>Journal of Physics: Conference Series</i> , 2012 , 381, 012098	0.3	1
112	Investigating trends in proton single-particle states in Z= 51 isotopes using transfer reactions. <i>Journal of Physics: Conference Series</i> , 2012 , 381, 012099	0.3	1

111	HELIOS - progress and possibilities. <i>Journal of Physics: Conference Series</i> , 2012 , 381, 012095	0.3	
110	Trends in the $g_{7/2}$ and $h_{11/2}$ neutron single-particle energies in $N=51$ isotones. <i>Journal of Physics: Conference Series</i> , 2012 , 381, 012100	0.3	
109	Constraining neutrinoless double- β decay matrix elements in ^{130}Te . <i>Journal of Physics: Conference Series</i> , 2012 , 381, 012043	0.3	1
108	Study of valence neutrons in ^{136}Xe with HELIOS. <i>Journal of Physics: Conference Series</i> , 2011 , 312, 092034	0.3	
107	Evidence for shape coexistence at medium spin in ^{76}Rb . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 701, 306-312	4.2	14
106	Single-particle and collective structures in ^{55}Cr and ^{55}V . <i>Physical Review C</i> , 2011 , 83,	2.7	8
105	Single-neutron energies outside ^{136}Xe . <i>Physical Review C</i> , 2011 , 84,	2.7	26
104	Collectivity at $N=40$ in neutron-rich ^{64}Cr . <i>Physical Review C</i> , 2010 , 81,	2.7	98
103	Cross-shell excitations near the β -band of inversion-Structure of ^{30}Mg . <i>Physical Review C</i> , 2010 , 82,	2.7	18
102	Population of positive-parity states in ^{53}Sc through one-proton knockout. <i>Physical Review C</i> , 2010 , 81,	2.7	8
101	Pair correlations in the neutrinoless double- β decay candidate ^{130}Te . <i>Physical Review C</i> , 2010 , 82,	2.7	17
100	First experiment with HELIOS: the structure of ^{13}B . <i>Physical Review Letters</i> , 2010 , 104, 132501	7.4	30
99	Spectroscopy of neutron-rich $^{168,170}\text{Dy}$: Yrast band evolution close to the $N=Z$ valence maximum. <i>Physical Review C</i> , 2010 , 81,	2.7	25
98	High-spin structures in the neutron-rich isotopes ^{57}Mn and ^{57}Co . <i>Physical Review C</i> , 2010 , 81,	2.7	26
97	THE HELIOS SPECTROMETER AND THE RADIOACTIVE BEAM PROGRAM AT ARGONNE. <i>International Journal of Modern Physics E</i> , 2010 , 19, 825-836	0.7	1
96	Evidence of nontermination of collective rotation near the maximum angular momentum in ^{75}Rb . <i>Physical Review C</i> , 2010 , 82,	2.7	5
95	Commissioning of the HELIOS spectrometer. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010 , 622, 97-106	1.2	48
94	Cross-shell excitations in ^{30}Al and ^{30}Si at high spin. <i>Nuclear Physics A</i> , 2010 , 847, 149-167	1.3	14

93	Structure of ^{240}Pu : evidence for octupole phonon condensation?. <i>Physical Review Letters</i> , 2009 , 102, 122501	7.4	34
92	High-lying, non-yrast shell structure in Ti^{52} . <i>Physical Review C</i> , 2009 , 80,	2.7	12
91	Nuclear structure relevant to neutrinoless double β decay: The valence protons in Ge^{76} and Se^{76} . <i>Physical Review C</i> , 2009 , 79,	2.7	97
90	Performance tests of large area position-sensitive planar germanium detectors with conventional and amorphous contacts. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009 , 602, 467-476	1.2	5
89	Deformation of rotational structures in Kr^{73} and Rb^{74} : Probing the additivity principle at triaxial shapes. <i>Physical Review C</i> , 2008 , 78,	2.7	8
88	Low-spin lifetime measurements in Kr^{74} . <i>Physical Review C</i> , 2008 , 77,	2.7	8
87	β ray spectroscopy of At^{197} . <i>Physical Review C</i> , 2008 , 78,	2.7	13
86	Excited states in the neutron-deficient nuclei $\text{Rn}^{197,199,201}$. <i>Physical Review C</i> , 2008 , 77,	2.7	9
85	Spectroscopy of neutron-rich $\text{Mn}^{59\text{B}}$ isotopes. <i>Physical Review C</i> , 2008 , 78,	2.7	43
84	Nuclear structure relevant to neutrinoless double beta decay: ^{76}Ge and ^{76}Se . <i>Physical Review Letters</i> , 2008 , 100, 112501	7.4	116
83	High-j single-particle neutron states outside the $N=82$ core. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008 , 658, 216-221	4.2	37
82	One-particle excitations outside the ^{54}Ti semi-magic core: The ^{55}V and ^{55}Ti yrast structures. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007 , 650, 135-140	4.2	16
81	β ray spectroscopy of neutron-deficient Te^{110} . I. Low- and intermediate-spin structures. <i>Physical Review C</i> , 2007 , 76,	2.7	8
80	Mapping the periphery of deformation in the $A\sim 80$ region: A study of Nb^{83} . <i>Physical Review C</i> , 2007 , 75,	2.7	12
79	Spectroscopy of neutron-rich Fe isotopes populated in the $\text{Ni}^{64}+\text{U}^{238}$ reaction. <i>Physical Review C</i> , 2007 , 76,	2.7	89
78	Effect of a triaxial nuclear shape on proton tunneling: the decay and structure of ^{145}Tm . <i>Physical Review Letters</i> , 2007 , 99, 082502	7.4	16
77	Pair correlations in nuclei involved in neutrinoless double β decay: Ge^{76} and Se^{76} . <i>Physical Review C</i> , 2007 , 75,	2.7	32
76	β ray spectroscopy of neutron-deficient Te^{110} . II. High-spin smooth-terminating structures. <i>Physical Review C</i> , 2007 , 76,	2.7	13

75	Identification of the g _{9/2} proton and neutron band crossing in the N=Z nucleus Sr76. <i>Physical Review C</i> , 2007 , 75,	2.7	15
74	Yrast structures in the neutron-rich isotopes Fe59,60 and the role of the g _{9/2} orbital. <i>Physical Review C</i> , 2007 , 76,	2.7	45
73	High-spin lifetime measurements in the N=Z nucleus Kr72. <i>Physical Review C</i> , 2007 , 75,	2.7	14
72	Excited states and signature inversion in Cs116. <i>Physical Review C</i> , 2006 , 74,	2.7	8
71	Cross-shell excitation in two-proton knockout: Structure of Ca52. <i>Physical Review C</i> , 2006 , 74,	2.7	84
70	One-neutron knockout in the vicinity of the N=32 sub-shell closure: Be9(Cr57,Cr56+) π X. <i>Physical Review C</i> , 2006 , 74,	2.7	11
69	Spectroscopy of the odd-odd fp-shell nucleus Sc52 from secondary fragmentation. <i>Physical Review C</i> , 2006 , 73,	2.7	10
68	Level structure of the neutron-rich Cr56,58,60 isotopes: Single-particle and collective aspects. <i>Physical Review C</i> , 2006 , 74,	2.7	70
67	Isospin symmetry of odd-odd mirror nuclei: identification of excited states in N=Z-2 48Mn. <i>Physical Review Letters</i> , 2006 , 97, 132501	7.4	17
66	Observation of an isomeric state in Au197. <i>Physical Review C</i> , 2006 , 74,	2.7	10
65	First observation of excited states in Cs114: Spectroscopy of the yrast $(\pi 11/2)^+(\pi 11/2)$ band. <i>Physical Review C</i> , 2006 , 73,	2.7	7
64	Lifetime measurements in N=Z72Kr. <i>Physica Scripta</i> , 2006 , T125, 127-129	2.6	3
63	Shape transitions far from stability: The nucleus 58Cr. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2006 , 633, 696-700	4.2	50
62	Evidence for nontermination of rotational bands in 74Kr. <i>Physical Review Letters</i> , 2005 , 95, 232501	7.4	41
61	Strength of octupole correlations in the actinides: contrasting behavior in the isotones 237U and 239Pu. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005 , 618, 51-59	4.2	21
60	Changes in $\pi 9/2$ shape polarisation across the odd neutron-rich Cr isotopes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005 , 622, 151-158	4.2	42
59	First observation of very neutron-deficient 122Ce. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2005 , 625, 203-211	4.2	8
58	Recoil decay tagging study of 146Tm. <i>European Physical Journal A</i> , 2005 , 25, 155-157	2.5	9

57	Particle-core coupling in the transitional proton emitters 145, 146, 147Tm. <i>European Physical Journal A</i> , 2005 , 25, 159-160	2.5	9
56	Electrons From A 0.3s Isomer In 254No. <i>AIP Conference Proceedings</i> , 2005 ,	0	5
55	Structure Of The Neutron-Rich Cr Isotopes: Inadequacy Of The fp Model Space And Onset Of Deformation. <i>AIP Conference Proceedings</i> , 2005 ,	0	2
54	Proton decay: spectroscopic probe beyond the proton drip line. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005 , 31, S1503-S1508	2.9	8
53	Doorway states as a principal decay pathway in C12(C12,γ)radiative capture. <i>Physical Review C</i> , 2005 , 71,	2.7	8
52	Lifetimes of excited states in octupole-collective Ba142,144 nuclei. <i>Physical Review C</i> , 2005 , 71,	2.7	15
51	Structure of two-, four-, and six-quasiparticle isomers in Yb174 and K-forbidden decays. <i>Physical Review C</i> , 2005 , 71,	2.7	39
50	High-spin rotational structures in Kr76. <i>Physical Review C</i> , 2005 , 71,	2.7	22
49	Reduced transition probabilities to the first 2+ state in Ti52,54,56 and development of shell closures at N=32,34. <i>Physical Review C</i> , 2005 , 71,	2.7	115
48	Yrast structure of neutron-rich Ti53. <i>Physical Review C</i> , 2005 , 72,	2.7	28
47	Structure of the neutron-rich Cr isotopes. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005 , 31, S1465-S1470	2.9	6
46	The CLARA-PRISMA setup installed at LNL: first results. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005 , 31, S1443-S1448	2.9	10
45	Recoil decay tagging study of 146Tm 2005 , 155-157		
44	Is the nuclear spin-orbit interaction changing with neutron excess?. <i>Physical Review Letters</i> , 2004 , 92, 162501	7.4	150
43	Ba136 studied via deep-inelastic collisions: Identification of the (π11π)10+ isomer. <i>Physical Review C</i> , 2004 , 69,	2.7	71
42	High-spin spectroscopy and quasiparticle alignments in Ce124,125. <i>Physical Review C</i> , 2004 , 69,	2.7	16
41	Development of shell closures at N=32,34. II. Lowest yrast excitations in even-even Ti isotopes from deep-inelastic heavy-ion collisions. <i>Physical Review C</i> , 2004 , 70,	2.7	78
40	Low-lying levels in Cr59: Inadequacy of the fp model space and onset of deformation. <i>Physical Review C</i> , 2004 , 69,	2.7	47

39	Multi-quasiparticle states in ^{184}W via multi-nucleon transfer. <i>European Physical Journal A</i> , 2004 , 20, 365-369	2.5	17
38	K-Mixing and fast decay of a seven-quasiparticle isomer in ^{179}Ta . <i>European Physical Journal A</i> , 2004 , 22, 23-27	2.5	15
37	Production of exotic nuclear isomers in multi-nucleon transfer reactions. <i>Laser Physics Letters</i> , 2004 , 1, 317-324	1.5	16
36	Identification of yrast high-K isomers in ^{177}Lu and characterisation of $^{177\text{m}}\text{Lu}$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004 , 584, 22-30	4.2	28
35	Complete structure determination of the astrophysically important nucleus ^{20}Na below the proton threshold. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004 , 590, 170-175	4.2	21
34	Coupling a CLOVER detector array with the PRISMA magnetic spectrometer. <i>European Physical Journal A</i> , 2003 , 20, 193-197	2.5	97
33	The GREAT spectrometer. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2003 , 204, 634-637	1.2	211
32	Binary-reaction spectroscopy of ^{99}Mo , ^{100}Mo : Intruder alignment systematics in $N=57$ and $N=58$ isotones. <i>Physical Review C</i> , 2003 , 68,	2.7	25
31	Identification of excited states in ^{140}Dy . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002 , 529, 42-49	4.2	30
30	Low-lying structure of light radon isotopes. <i>Physical Review C</i> , 2002 , 66,	2.7	20
29	Testing mean-field models near the $N=Z$ line: γ -ray spectroscopy of the $T_z=12$ nucleus ^{73}Kr . <i>Physical Review C</i> , 2002 , 65,	2.7	23
28	Identification of excited states in doubly odd ^{63}Eu by recoil-isomer tagging. <i>Physical Review C</i> , 2002 , 66,	2.7	27
27	High-spin structures and band termination effects in ^{104}Cd . <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2002 , 28, 1415-1431	2.9	6
26	Lifetimes of yrast rotational states of the fission fragments ^{100}Zr and ^{104}Mo measured using a differential plunger. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2002 , 28, 2307-2316	2.9	34
25	Excited states and deformation of ^{112}Xe . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001 , 523, 13-21	4.2	18
24	Observation of delayed alignment in $N=Z$ nuclei ^{72}Kr , ^{76}Sr and ^{80}Zr . <i>Nuclear Physics A</i> , 2001 , 682, 35-40	1.3	4
23	Masses and Proton Separation Energies Obtained from Q_{β} and $Q_{\beta p}$ Measurements. <i>Hyperfine Interactions</i> , 2001 , 132, 133-139	0.8	8
22	High-spin structures and alignment properties in ^{126}Ce . <i>Physical Review C</i> , 2001 , 63,	2.7	13

21	Alignment delays in the $N = Z$ nuclei (72)Kr, (76)Sr, and (80)Zr. <i>Physical Review Letters</i> , 2001 , 87, 132501	7.4	61
20	The GREAT triggerless total data readout method. <i>IEEE Transactions on Nuclear Science</i> , 2001 , 48, 567-569	7	194
19	Masses and Proton Separation Energies Obtained from Q_{α} and Q_p Measurements 2001 , 133-139		
18	High-spin states in ^{109}Te : Competition between collective and single-particle excitations. <i>Physical Review C</i> , 2000 , 61,	2.7	20
17	β decay of excited states in ^{198}Rn identified using correlated radioactive decay. <i>Physical Review C</i> , 1999 , 59, 673-681	2.7	32
16	Correlated spins of complementary fragment pairs in the spontaneous fission of ^{252}Cf . <i>Physical Review C</i> , 1999 , 60,	2.7	6
15	In-beam spectroscopy of ^{79}Y . <i>Physical Review C</i> , 1998 , 58, 1438-1443	2.7	4
14	New proton radioactivities $^{165,166,167}\text{Ir}$ and ^{171}Au . <i>Physical Review C</i> , 1997 , 55, 2255-2266	2.7	107
13	Loss of alignment gain in the $\pi 9/2^{-}[541\ 1/2^{-}]$ ($\pi 13/2^{-}$) 2 band in ^{167}Tm and neighbouring odd- Z $N = 98$ nuclei. <i>Zeitschrift für Physik A</i> , 1997 , 359, 127-132		15
12	Evidence for a rotational alignment in a high-K band in. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 1996 , 22, 1411-1420	2.9	1
11	A schematic model for the study of fragmentation of scissors M1 strength in deformed nuclei. <i>Nuclear Physics A</i> , 1996 , 596, 30-52	1.3	13
10	gamma decay from states at low excitation energy in the neutron-deficient isotope, ^{200}Rn , identified by correlated radioactive decay. <i>Physical Review C</i> , 1996 , 54, 2926-2934	2.7	27
9	High-K isomers in ^{176}W and mechanisms of K violation. <i>Physical Review C</i> , 1996 , 53, 1173-1190	2.7	34
8	Collectivity in "spherical" $^{143,144}\text{Eu}$ nuclei. <i>Physical Review C</i> , 1995 , 52, R1-R5	2.7	10
7	alpha decay of a new isotope, ^{204}Ra . <i>Physical Review C</i> , 1995 , 51, R1047-R1051	2.7	18
6	Magnetic moment measurements in ^{86}Zr . <i>Physical Review C</i> , 1995 , 51, 513-518	2.7	13
5	Search for deformation effects in nuclei with $N = 82$. <i>Physica Scripta</i> , 1995 , T56, 249-252	2.6	4
4	Crowell et al. reply. <i>Physical Review Letters</i> , 1994 , 72, 3737	7.4	2

- 3 Low-lying structure of the neutron-deficient isotope ^{202}Rn . *Physical Review C*, **1994**, 50, R1754-R1758 2.7 12
- 2 Novel decay modes of high-K isomers: Tunneling in a triaxial landscape. *Physical Review Letters*, **1994**, 72, 1164-1167 7.4 33
- 1 Transitional nucleus ^{101}Ag : Spin-stabilized deformation in odd Ag isotopes. *Physical Review C*, **1992**, 45, 1564-1574 2.7 10