

Iain Darby

List of Publications by Year in descending order

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85
papers

2,158
citations

218677

26
h-index

254184

43
g-index

89
all docs

89
docs citations

89
times ranked

1496
citing authors

#	ARTICLE	IF	CITATIONS
19	Analogous intruder behavior near Ni, Sn, and Pb isotopes. Physical Review C, 2015, 92, .	2.9	14
20	Competing Decay Modes of a High-spin Isomer in the Proton-unbound Nucleus ^{158}Ta . Acta Physica Polonica B, 2015, 46, 695.	0.8	2
21	High-spin states in the transitional nuclei ^{163}Re . Physical Review C, 2015, 91, 044307.	2.9	6
22	High-spin states beyond the proton drip-line: Quasiparticle alignments in 113 Cs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 243-249.	4.1	5
23	Study of the deformation-driving $1/2d5/2$ orbital in 67 28 Ni 39 using one-neutron transfer reactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 533-538.	4.1	16
24	Blurring the Boundaries: Decays of Multiparticle Isomers at the Proton Drip Line. Physical Review Letters, 2014, 112, 092501.	7.8	30
25	β decay of ^{72}Co and microsecond isomers in even-mass neutron-rich nickel isotopes. Journal of Physics G: Nuclear and Particle Physics, 2014, 41, 115104.	3.6	13
26	In-gas-cell laser ionization spectroscopy in the vicinity of 100Sn: Magnetic moments and mean-square charge radii of ^{100}Sn . Ag. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 728, 191-197.	4.1	39
27	Charge radii of odd-A ^{211}Po isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 362-366.	2.9	51
28	Low-lying excited states in the neutron-deficient isotopes ^{163}Os and ^{165}Os . Physical Review C, 2013, 87, .	2.9	14
29	Charge radii of odd-A ^{211}Po isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 362-366.	4.1	64
30	Low-lying excited states in the neutron-deficient isotopes ^{163}Os and ^{165}Os . Physical Review C, 2013, 87, .	2.9	6
31	Charge radii of odd-A ^{211}Po isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 362-366.	2.9	19
32	Charge radii of odd-A ^{211}Po isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 362-366.	2.9	13
33	Charge radii of odd-A ^{211}Po isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 362-366.	2.9	26
34	Charge radii of odd-A ^{211}Po isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 362-366.	2.9	7
35	Charge radii of odd-A ^{211}Po isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 719, 362-366.	2.9	29
36	First observation of excited states of ^{173}Hg . Physical Review C, 2012, 85, .	2.9	5

#	ARTICLE	IF	CITATIONS
37	Linearizing the atomic mass surface beyond the proton drip line via $\tilde{I} \pm$ decay measurements of the ^{159}Er isomers. <i>Physical Review C</i> , 2011, 84, .	2.9	9
38	Early onset of deformation in the neutron-deficient polonium isotopes. <i>Journal of Physics: Conference Series</i> , 2012, 381, 012072.	0.4	3
39	Algorithms for pulse shape analysis using silicon detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2012, 669, 70-78.	1.6	11
40	Diverse collective excitations in ^{159}Er up to high spin. <i>Physical Review C</i> , 2011, 84, .	2.9	14
41	Decay of the high-spin isomer in ^{160}Re : Changing single-particle structure beyond the proton drip line. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 695, 78-81.	4.1	17
42	Shape coexistence along ^{160}Re . <i>Physical Review C</i> , 2011, 84, .	2.9	14
43	Early Onset of Ground State Deformation in Neutron Deficient Polonium Isotopes. <i>Physical Review Letters</i> , 2011, 106, 052503.	7.8	94
44	Rotational structures and the wobbling mode in ^{167}Er . <i>Physical Review C</i> , 2011, 83, .	2.9	14
45	Precision measurements of proton emission from the ground states of ^{156}Ta and ^{156}Re . <i>Physical Review C</i> , 2011, 83, .	2.9	22
46	^{156}Ta and ^{156}Re and ^{160}Cr delayed proton emission branches in ^{160}Cr . <i>Physical Review C</i> , 2011, 83, .	2.9	24
47	^{160}Cr delayed proton emission branches in ^{160}Cr . <i>Physical Review C</i> , 2011, 83, .	2.9	26
48	High-spin yrast structure of ^{159}Ho . <i>Physical Review C</i> , 2011, 84, .	2.9	5
49	Discovery of ^{157}W and ^{161}Os . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 690, 15-18.	4.1	21
50	Isomeric and ground-state properties of ^{171}Pt . <i>Physical Review C</i> , 2010, 81, .	2.9	13
51	^{171}Pt decay of ^{181}Zn and migrations ^{181}Zn . <i>Physical Review C</i> , 2010, 81, .	2.9	22
52	Band crossings in ^{166}Ta . <i>Physical Review C</i> , 2010, 82, .	2.9	6
53	Competing quasiparticle configurations in ^{163}W . <i>Physical Review C</i> , 2010, 81, .	2.9	12
54	Orbital Dependent Nucleonic Pairing in the Lightest Known Isotopes of Tin. <i>Physical Review Letters</i> , 2010, 105, 162502.	7.8	98

#	ARTICLE	IF	CITATIONS
55	Structure of ^{191}Pb from \hat{I}^{\pm} - and \hat{I}^2 -decay spectroscopy. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 125103.	3.6	20
56	Wobbling mode in ^{167}Ta . Physical Review C, 2009, 80, .	2.9	36
57	Wobbling mode in ^{167}Ta . Physical Review C, 2009, 80, .	2.9	77
58	Wobbling mode in ^{167}Ta . Physical Review C, 2009, 80, .	2.9	5
59	\hat{I}^2 -ray spectroscopy of ^{191}Pb . Physical Review Letters, 2009, 102, 212501.	2.9	7
60	\hat{I}^3 -Ray Spectroscopy at the Limits: First Observation of Rotational Bands in ^{255}Lr . Physical Review Letters, 2009, 102, 212501.	7.8	34
61	Complete correlation studies of two-proton decays: ^{6}Be and ^{45}Fe . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 677, 30-35.	4.1	50
62	Two-proton radioactivity of ^{45}Fe . European Physical Journal A, 2009, 42, 431.	2.5	14
63	Structure of rotational bands in ^{253}No . European Physical Journal A, 2009, 42, 333.	2.5	27
64	Ultrahigh-spin spectroscopy of ^{159}Er . Physical Review C, 2009, 80, .	2.9	22
65	Lifetimes of intruder states in ^{186}Pb , ^{188}Pb and ^{194}Po . Nuclear Physics A, 2008, 801, 83-100.	1.5	44
66	Decays of New Nuclides and Isomers Beyond the Proton Drip Line – The Influence of Neutron Configurations. , 2008, .		0
67	Studies of excitation functions for the reaction between ^{100}Sn . Physical Review C, 2009, 80, .	2.9	10
68	\hat{I}^{\pm} decay of ^{159}Re and proton emission from ^{155}Ta . Physical Review C, 2007, 75, .	2.9	36
69	First observation of \hat{I}^2 -delayed three-proton emission in ^{45}Fe . Physical Review C, 2007, 76, .	2.9	37
70	Identification of Excited States in the ^{110}Xe . Physical Review Letters, 2007, 99, 022501.	7.8	27
71	Investigation of nuclear collectivity in the neutron mid-shell nucleus ^{186}Pb . Physical Review C, 2007, 75, .	2.9	33
72	Nuclear levels in proton-unbound ^{109}Lu . Physical Review C, 2007, 76, .	2.9	18

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73	Two-Proton Correlations in the Decay of ^{45}Fe . Physical Review Letters, 2007, 99, 192501.	7.8	108
74	In-beam gamma-ray spectroscopy of $^{190, 197}\text{Po}$. European Physical Journal A, 2007, 34, 275-281.	2.5	13
75	Collectivity in neutron-deficient Pb and Po nuclei. European Physical Journal: Special Topics, 2007, 150, 121-122.	2.6	0
76	Identification of the ^{109}Xe and ^{105}Te \hat{I}^\pm -decay chain. European Physical Journal: Special Topics, 2007, 150, 131-134.	2.6	4
77	Discovery of ^{109}Xe and ^{105}Te : Superallowed \hat{I}^\pm Decay near Doubly Magic ^{100}Sn . Physical Review Letters, 2006, 97, 082501.	7.8	103
78	Isomer spectroscopy in ^{254}No . Physica Scripta, 2006, T125, 73-77.	2.5	4
79	Nuclear isomers in superheavy elements as stepping stones towards the island of stability. Nature, 2006, 442, 896-899.	27.8	176
80	Recoil-beta tagging: A novel technique for studying proton-drip-line nuclei. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 565, 630-636.	1.6	20
81	Probing the limit of nuclear existence: Proton emission from ^{159}Re . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 641, 34-37.	4.1	46
82	\hat{I}^\pm decay of the new isotopes $^{193, 194}\text{Rn}$. Physical Review C, 2006, 74, .	2.9	27
83	Collectivity and Configuration Mixing in $^{186, 188}\text{Pb}$ and ^{194}Po . Physical Review Letters, 2006, 97, 062501.	7.8	62
84	Evidence for oblate structure in ^{186}Pb . Physical Review C, 2005, 72, .	2.9	21
85	Cross section systematics for the lightest Bi and Po nuclei produced in complete fusion reactions with heavy ions. Physical Review C, 2005, 72, .	2.9	28