

Benjamin Kay

List of Publications by Year in descending order

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96
papers

2,165
citations

218381

26
h-index

243296

44
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96
all docs

96
docs citations

96
times ranked

1517
citing authors

#	ARTICLE	IF	CITATIONS
19	Development of an Isomeric beam of ²⁶ Al for nuclear reaction studies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 899, 6-9.	0.7	3
20	Experimental study of the effective nucleon-nucleon interaction using the F21(d,p)F22 reaction. Physical Review C, 2018, 98, .	1.1	3
21	<p> \hat{I}_{\pm} </p> <p> T_j </p>	1.0784314	rgB

#	ARTICLE	IF	CITATIONS
37	Ordering of the d_{13} levels in light nuclei. Physical Review C, 2016, 94, .	1.1	13
38	In-beam β^3 -ray spectroscopy of Mn63. Physical Review C, 2016, 93, .	1.1	4
39	Change of nuclear configurations in the neutrinoless double- β^2 decay of ^{130}Te and ^{136}Xe . Physical Review C, 2016, 93, .	1.1	26
40	Direct Evidence of Octupole Deformation in Neutron-Rich ^{144}Ba . Physical Review Letters, 2016, 116, 012503.	2.9	118
41	Rearrangement of valence neutrons in the neutrinoless double- β^2 decay of ^{136}Xe . Physical Review C, 2016, 94, .	1.1	23
42	The $^{20}\text{Ne}(\text{d},\text{p})^{21}\text{Ne}$ transfer reaction in relation to the s -process abundances. Journal of Physics: Conference Series, 2016, 665, 012026.	0.3	0
43	Exploring the stability of super heavy elements: First Measurement of the Fission Barrier of ^{254}No . EPJ Web of Conferences, 2014, 66, 02046.	0.1	2
44	Fission Barrier of Superheavy Nuclei and Persistence of Shell Effects at High Spin: Cases of ^{254}No and ^{254}Lr . Physical Review Letters, 2014, 112, 082502.	2.9	34
45	Nuclear Structure of Light Nuclei Near Threshold. Nuclear Physics News, 2014, 24, 16-21.	0.1	1
46	Upper limit on the two-photon emission branch for the $0_2^+ \rightarrow 0_1^+$ transition in ^{98}Mo . Physical Review C, 2014, 89, .	1.1	5
47	Neutron s states in loosely bound nuclei. Physical Review C, 2014, 89, .	1.1	35
48	Quenching of Cross Sections in Nucleon Transfer Reactions. Physical Review Letters, 2013, 111, 042502.	2.9	64
49	Valence nucleon populations in the Ni isotopes. Physical Review C, 2013, 87, .	1.1	51
50	Evidence for rigid triaxial deformation at low energy in ^{76}Ge . Physical Review C, 2013, 87, .	1.1	82
51	New AMS method to measure the atom ratio $^{146}\text{Sm}/^{147}\text{Sm}$ for a half-life determination of ^{146}Sm . Nuclear Instruments & Methods in Physics Research B, 2013, 294, 143-146.	0.6	4
52	Nuclear structure relevant to neutrinoless double beta decay candidate ^{130}Te and other recent results. , 2013, , .		1
53	Transfer Reactions and the Structure of Neutron-rich Nuclei. Acta Physica Polonica B, 2013, 44, 349.	0.3	0
54	Proton pair correlations and the neutrinoless double- β^2 decay of ^{76}Ge . Physical Review C, 2013, 87, .	1.1	13

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55	Neutron single-particle strength outside the $N=50$ core. Physical Review C, 2013, 87, .	1.1	32
56	Valence neutron properties relevant to the neutrinoless double- β^2 decay of ^{130}Te . Physical Review C, 2013, 87, .	1.1	37
57	Single-neutron excitations in ^{18}N . Physical Review C, 2013, 88, .	1.1	8
58	Neutron pair correlations in ^{100}N involved in neutrinoless double- β^2 decay. Physical Review C, 2012, 86, .	1.1	18
59	Test of Sum Rules in Nucleon Transfer Reactions. Physical Review Letters, 2012, 108, 022501.	2.9	55
60	Core-coupled protons, $f_{7/2}$ intruder states, and competing $g_{9/2}$ proton and neutron structures in $^{65,67}\text{Cu}$. Physical Review C, 2012, 85, .	1.1	26
61	Experimental study of the ^{19}O ($T_{1/2} = 0.784314$ s). Physical Review Letters, 2012, 108, 022501.	1.1	19
62	Neutron-hole strength in the $N=81$ isotones. Journal of Physics: Conference Series, 2012, 381, 012098.	0.3	1
63	Investigating trends in proton single-particle states in $Z=51$ isotopes using transfer reactions. Journal of Physics: Conference Series, 2012, 381, 012099.	0.3	1
64	HELIOS - progress and possibilities. Journal of Physics: Conference Series, 2012, 381, 012095.	0.3	1
65	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.	0.3	0
66	Studying X-ray Burst Nucleosynthesis in the Laboratory. Journal of Physics: Conference Series, 2012, 403, 012033.	0.3	2
67	Constraining neutrinoless double- β^2 decay matrix elements in ^{130}Te . Journal of Physics: Conference Series, 2012, 381, 012043.	0.3	1
68	β^3 -ray spectroscopy of the odd-odd $N=Z+2$ deformed proton emitter ^{112}Cs . Physical Review C, 2012, 85, .	1.1	11
69	Yrast structure of ^{206}Bi : Isomeric states and one-proton-particle, three-neutron-hole excitations. Physical Review C, 2012, 86, .	1.1	15
70	Storage ring at HIE-ISOLDE. European Physical Journal: Special Topics, 2012, 207, 1-117.	1.2	101
71	Study of valence neutrons in ^{136}Xe with HELIOS. Journal of Physics: Conference Series, 2011, 312, 092034.	0.3	0
72	First measurement of the ^{33}Cl ($T_{1/2} = 0.000000$ s). Physical Review Letters, 2012, 108, 022501.	1.1	19

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73	Single-particle and collective structures in Cr55 and V55. Physical Review C, 2011, 83, .	1.1	10
74	Single-neutron energies outside ^{136}Xe . Physical Review C, 2011, 84, .	1.1	28
75	Seniority, collectivity, and ^{72}Ni . Physical Review C, 2011, 84, .	1.1	22
76	Commissioning of the HELIOS spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 622, 97-106.	0.7	58
77	Cross-shell excitations in ^{30}Al and ^{30}Si at high spin. Nuclear Physics A, 2010, 847, 149-167.	0.6	14
78	Collectivity of ^{64}Ni . Physical Review C, 2010, 82, .	1.1	107
79	Cross-shell excitations near the ^{64}Ni island of inversion. Structure of ^{64}Ni . Physical Review C, 2010, 82, .	1.1	22
80	Population of positive-parity states in ^{53}Sc through one-proton knockout. Physical Review C, 2010, 81, .	1.1	9
81	Pair correlations in the neutrinoless double- β^2 decay candidate ^{130}Te . Physical Review C, 2010, 82, .	1.1	18
82	First Experiment with HELIOS: The Structure of ^{13}B . Physical Review Letters, 2010, 104, 132501.	2.9	36
83	High-lying, non-yrast shell structure in ^{73}Ti . Physical Review C, 2009, 80, .	1.1	24
84	High-lying, non-yrast shell structure in ^{73}Ti . Physical Review C, 2009, 80, .	1.1	13
85	Properties of excited states in ^{77}Ge . Physical Review C, 2009, 80, .	1.1	108
86	Properties of excited states in ^{77}Ge . Physical Review C, 2009, 80, .	1.1	4
87	Experiments to Further the Understanding of the Triple-Alpha Process in Hot Astrophysical Scenarios. , 2009, , .		2
88	High-j single-particle neutron states outside the core. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 658, 216-221.	1.5	40

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91	Structure Relevant to Neutrinoless Double \hat{I}^2 Decay: ^{76}Ge and ^{76}Se . Physical Review C, 2007, 75, .	2.9	131
92	Pair correlations in nuclei involved in neutrinoless double \hat{I}^2 decay: ^{76}Ge and ^{76}Se . Physical Review C, 2007, 75, .	1.1	34
93	One-particle excitations outside the ^{54}Ti semi-magic core: The ^{55}V and ^{55}Ti yrast structures. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 650, 135-140.	1.5	17
94	Cross-shell excitation in two-proton knockout: Structure of ^{52}Ca . Physical Review C, 2006, 74, .	1.1	104
95	One-neutron knockout in the vicinity of the $N=32$ sub-shell closure: $^{9}\text{Be}(^{57}\text{Cr}, ^{56}\text{Cr} + \hat{I}^3)X$. Physical Review C, 2006, 74, .	1.1	13
96	Spectroscopy of the odd-odd fp-shell nucleus ^{52}Sc from secondary fragmentation. Physical Review C, 2006, 73, .	1.1	11