

Benjamin Kay

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

2,165
citations

218677

26
h-index

243625

44
g-index

96
all docs

96
docs citations

96
times ranked

1517
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure Relevant to Neutrinoless Double β Decay. Physical Review Letters, 2016, 116, 112305.	7.8	131
2	Direct Evidence of Octupole Deformation in Neutron-Rich ^{144}Ba . Physical Review Letters, 2016, 116, 112305.	7.8	118
3	Collectivity at ^{144}Ba and the Origin of Large Reaction rate for carbon burning in massive stars. Physical Review C, 2010, 81, .	2.9	108
4	Cross-shell excitation in two-proton knockout: Structure of ^{52}Ca . Physical Review C, 2006, 74, .	2.9	107
5	Storage ring at HIE-ISOLDE. European Physical Journal: Special Topics, 2012, 207, 1-117.	2.9	104
6	Evidence for rigid triaxial deformation at low energy in ^{146}Ba . Physical Review C, 2013, 87, .	2.6	101
7	Direct Evidence for Octupole Deformation in ^{146}Ba . Physical Review C, 2013, 87, .	2.9	82
8	Reaction rate for carbon burning in massive stars. Physical Review C, 2018, 97, .	7.8	80
9	Quenching of Cross Sections in Nucleon Transfer Reactions. Physical Review Letters, 2013, 111, 042502.	2.9	69
10	Commissioning of the HELIOS spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 622, 97-106.	7.8	64
11	Shape coexistence and the role of axial asymmetry in ^{72}Ge . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 754, 254-259.	1.6	58
12	Test of Sum Rules in Nucleon Transfer Reactions. Physical Review Letters, 2012, 108, 022501.	4.1	57
13	Valence nucleon populations in the Ni isotopes. Physical Review C, 2013, 87, .	7.8	55
14	High-j single-particle neutron states outside the core. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 658, 216-221.	2.9	51
15	Valence neutron properties relevant to the neutrinoless double β decay of ^{130}Te . Physical Review C, 2013, 87, .	2.9	43
16	Valence neutron properties relevant to the neutrinoless double β decay of ^{130}Te . Physical Review C, 2013, 87, .	4.1	40
17	Valence neutron properties relevant to the neutrinoless double β decay of ^{130}Te . Physical Review C, 2013, 87, .	2.9	37

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19	First Experiment with HELIOS: The Structure of B . $\text{Physical Review Letters}$, 2010, 104, 132501.	7.8	36
20	Neutron s states in loosely bound nuclei. Physical Review C , 2014, 89, .	2.9	35
21	Pair correlations in nuclei involved in neutrinoless double \hat{I}^2 decay: $Ge76$ and $Se76$. Physical Review C , 2007, 75, .	2.9	34
22	Fission Barrier of Superheavy Nuclei and Persistence of Shell Effects at High Spin: Cases of No . Physical Review C , 2013, 87, .	7.8	34
23	Neutron single-particle strength outside the $N=50$ core. Physical Review C , 2013, 87, .	2.9	32
24	Single-neutron energies outside ^{136}Xe . Physical Review C , 2011, 84, .	2.9	28
25	Sub-shell closure and shape coexistence in the transitional nucleus $Zr98$. Physical Review C , 2018, 98, .	2.9	28
26	Core-coupled protons, $f7/2$ intruder states, and competing $g9/2$ proton and neutron structures in $^{65,67}Cu$. Physical Review C , 2012, 85, .	2.9	26
27	Change of nuclear configurations in the neutrinoless double- \hat{I}^2 decay of $Te130$, $Xe130$ and $Xe136$. Physical Review C , 2016, 93, .	2.9	26
28	Identification of the g bands in the neutron-rich Ga . Physical Review C , 2016, 94, .	2.9	24
29	Rearrangement of valence neutrons in the neutrinoless double- \hat{I}^2 decay of Xe . Physical Review C , 2016, 94, .	2.9	23
30	Cross-shell excitations near the \hat{I}^2 structure of $Mg30$. Physical Review C , 2010, 82, .	2.9	22
31	Collectivity, and B in ^{72}Ni . Physical Review C , 2010, 82, .	2.9	22
32	Experimental study of the rearrangements of valence protons and neutrons amongst single-particle orbits during double- \hat{I}^2 decay in Mo . Physical Review C , 2017, 96, .	2.9	21
33	Experimental study of the O in Tj . Physical Review C , 2017, 96, .	2.9	19
34	Study of p in Tj . Physical Review C , 2017, 96, .	2.9	19
35	Study of p in Tj . Physical Review C , 2017, 96, .	2.9	19

#	ARTICLE	IF	CITATIONS
55	Single-neutron excitations in ^{18}N . Physical Review C, 2013, 88.	2.9	8
56	Experimental study of the low-lying negative-parity states in ^{11}Be using the ^{11}B		

#	ARTICLE	IF	CITATIONS
73	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
74	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
75	How well do we understand the reaction rate of C burning?. EPJ Web of Conferences, 2017, 163, 00011.	0.3	2
76	First direct measurement of the $^{13}\text{C}(\alpha, n)^{16}\text{O}$ reaction relevant for core-c		
77	Neutron-hole strength in the $Z=81$ isotones. Journal of Physics: Conference Series, 2012, 381, 012098.	0.4	1
78	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
79	HELIOS - progress and possibilities. Journal of Physics: Conference Series, 2012, 381, 012095.	0.4	1
80	Constraining neutrinoless double β decay matrix elements in ^{130}Te . Journal of Physics: Conference Series, 2012, 381, 012043.	0.4	1
81	Nuclear structure relevant to neutrinoless double beta decay candidate ^{130}Te and other recent results. , 2013, , .		1
82	Nuclear Structure of Light Nuclei Near Threshold. Nuclear Physics News, 2014, 24, 16-21.	0.4	1
83	High- J neutron excitations outside ^{13}C . Nuclear correlations and the structure of ^{13}C . Physical Review C, 2017, 96, .	2.9	1
84	overflow="scroll"> $^{16}\text{O}(\alpha, n)^{19}\text{F}$ reaction. Physical Review C, 2017, 96, .	4.1	1
85	Cross section measurements in the $^{12}\text{C}+^{12}\text{C}$ system. EPJ Web of Conferences, 2017, 165, 01015.	0.3	1
86	An overview of nucleon-transfer studies on $0^+_{1/2}2^+_{1/2}$ -decay candidates ^{76}Ge , ^{130}Te , and ^{136}Xe . AIP Conference Proceedings, 2017, , .	0.4	1
87	Study of $\hat{1}\pm$ -particle induced reactions using the MUSIC detector. AIP Conference Proceedings, 2018, , .	0.4	1
88	Neutron-hole strength in $N=81$ nuclei. Physical Review C, 2020, 101, .	2.9	1
89	Single-nucleon energies changing with nucleon number. Physical Review C, 2022, 105, .	2.9	1
90	Experimental study of the isomeric state in ^{16}O using the $^{16}\text{O}(\alpha, n)^{19}\text{F}$ reaction.	2.9	1

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91	Study of valence neutrons in ^{136}Xe with HELIOS. Journal of Physics: Conference Series, 2011, 312, 092034.	0.4	0
92	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
93	Transfer Reactions and the Structure of Neutron-rich Nuclei. Acta Physica Polonica B, 2013, 44, 349.	0.8	0
94	The $^{20}\text{Ne}(d,p)^{21}\text{Ne}$ transfer reaction in relation to the s -process abundances. Journal of Physics: Conference Series, 2016, 665, 012026.	0.4	0
95	Coriolis coupling effects in proton-pickup spectroscopic factors from B12. Physical Review C, 2021, 103, .	2.9	0
96	Search for the $1/2+$ intruder state in P35. Physical Review C, 2020, 102, .	2.9	0