

Cyrus Baktash

List of Publications by Year in descending order

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59
papers

1,652
citations

304368

22
h-index

288905

40
g-index

59
all docs

59
docs citations

59
times ranked

783
citing authors

#	ARTICLE	IF	CITATIONS
1	Rotational Bands in the Doubly Magic Nucleus $N=56$. Physical Review Letters, 1999, 82, 3763-3766.	2.9	139
2	Performance of the Recoil Mass Spectrometer and its detector systems at the Holifield Radioactive Ion Beam Facility. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 450, 12-29.	0.7	119
3	Prompt Proton Decay of a Well-Deformed Rotational Band in ^{58}Cu . Physical Review Letters, 1998, 80, 3018-3021.	2.9	97
4	Observation and Quadrupole-Moment Measurement of the First Superdeformed Band in the $A \approx 140$ Mass Region. Physical Review Letters, 1997, 79, 1233-1236.	2.9	91
5	Systematics of even-even $T_z = 1$ nuclei in the $A = 80$ region: High-spin rotational bands in ^{74}Kr , ^{78}Sr , and ^{82}Zr . Physical Review C, 1997, 56, 98-117.	1.1	83
6	High-spin shell-model states near ^{56}Ni . European Physical Journal A, 1999, 4, 115-145.	1.0	69
7	One-phonon isovector 2^+ in the neutron-rich nucleus ^{132}Te . Physical Review C, 2011, 84, .	1.1	65
8	First Observation of a Superdeformed Band in the $N, Z \approx 40$ Mass Region. Physical Review Letters, 1995, 74, 1946-1949.	2.9	60
9	Coulomb excitation of ^{124}Zr and ^{126}Zr . Physical Review C, 2011, 84, .	1.1	55
10	Coulomb excitation and transfer reactions with rare neutron-rich isotopes. Nuclear Physics A, 2005, 752, 264-272.	0.6	50
11	Identification and Quadrupole-Moment Measurement of a Superdeformed Band in ^{84}Zr . Physical Review Letters, 1995, 75, 1471-1474.	2.9	41
12	Spherical and deformed high-spin states in ^{38}Ar . Physical Review C, 2002, 65, .	1.1	40
13	Comparison of superdeformed bands in ^{61}Zn and ^{60}Zn : Possible evidence for $T=0$ pairing. Physical Review C, 1999, 60, .	1.1	37
14	Evidence for Hyperdeformation in ^{147}d . Physical Review Letters, 1995, 74, 5186-5189.	2.9	35
15	Superdeformed and highly deformed bands in ^{65}Zn and neutron-proton interactions in Zn isotopes. Physical Review C, 2000, 62, .	1.1	35
16	Yrast superdeformed band in ^{59}Cu . Physical Review C, 2000, 62, .	1.1	34
17	Prompt proton decay and deformed bands in ^{56}Ni . Physical Review C, 2008, 77, .	1.1	32
18	Triaxial superdeformed bands in ^{86}Zr . Physical Review C, 1998, 57, R1-R5.	1.1	31

#	ARTICLE	IF	CITATIONS
19	Investigations of γ -ray and particle decay of ^{13}Ni . Physical Review C, 2009, 80, .	1.1	27
20	Magnetic moments of 21^+ states in $^{124,126,128}\text{Sn}$. Physical Review C, 2013, 87, .	1.1	27
21	Probing γ -cross-shell interactions via terminating configurations in $^{42,43}\text{Sc}$. Physical Review C, 2007, 75, .	1.1	26
22	Electromagnetic Moments of Radioactive ^{136}Te and the Emergence of Collectivity. Physical Review C, 2004, 70, .	2.9	26
23	Study of the $^{124}\text{Sn}(d,p)$ reaction in inverse kinematics close to the Coulomb barrier. Physical Review C, 2004, 70, .	1.1	23
24	New band structures and an unpaired crossing in ^{78}Kr . Physical Review C, 1999, 59, 655-664.	1.1	21
25	Physics with heavy neutron-rich RIBs at the HRIBF. European Physical Journal A, 2002, 15, 171-173.	1.0	21
26	Extensive γ -ray spectroscopy of normally and superdeformed structures in $^{61,29}\text{Cu}$. European Physical Journal A, 2008, 36, 251-278.	1.0	21
27	Rotational inertia of superdeformed nuclei: Intruder orbitals, pairing, and identical bands. Physical Review C, 1996, 53, R1070-R1073.	1.1	20
28	Accurate Lifetime Measurements of Superdeformed Bands in ^{148}Nd Nuclei. Physical Review Letters, 1999, 83, 5447-5450.	2.9	20
29	Breakup of the doubly magic ^{100}Sn core. Physical Review C, 2002, 66, .	1.1	20
30	Identification of excited states in the $T_z = +12$ nucleus ^{75}Rb : The quest for experimental signatures of collective neutron-proton correlations. Physical Review C, 1997, 56, R591-R595.	1.1	19
31	In-beam spectroscopy study of the proton emitter ^{151}Lu . Physical Review C, 1998, 58, R3042-R3045.	1.1	19
32	First evidence of excited states in the near-drip-line nucleus ^{126}Pr and signature inversion in ^{130}Nd nuclei. Physical Review C, 2001, 63, .	1.1	19
33	Coulomb excitation and transfer reactions with neutron-rich radioactive beams. European Physical Journal A, 2005, 25, 383-387.	1.0	19
34	Interband Transitions between Superdeformed Bands in ^{87}Nb : Evidence for a Superintruder Orbital. Physical Review Letters, 1997, 78, 614-617.	2.9	16
35	Rotational bands with terminating properties in ^{59}Ni . Physical Review C, 2002, 65, .	1.1	16
36	Coulomb excitation measurements of transition strengths in the isotopes $^{132, 134}\text{Sn}$. European Physical Journal A, 2005, 25, 391-394.	1.0	16

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37	\hat{I}^3 -ray spectroscopy of ^{132}Te through \hat{I}^2 decay of a ^{132}Sb radioactive beam. Physical Review C, 2005, 71, .	1.1	16
38	High-spin states in the $A=39$ mirror nuclei ^{39}Ca and ^{39}K . European Physical Journal A, 1999, 6, 5-8.	1.0	15
39	Band terminations in the valence space of ^{86}Zr . Physical Review C, 2000, 61, .	1.1	14
40	Two-neutron alignment and shape changes in ^{69}As . Physical Review C, 2000, 62, .	1.1	14
41	^{100}Sn core excitations in ^{102}In . Physical Review C, 2002, 65, .	1.1	14
42	^{100}Sn core excitations in ^{97}Ag . Physical Review C, 2005, 72, .	1.1	14
43	Early Signal of Emerging Nuclear Collectivity in Neutron-Rich ^{129}Sb . https://arxiv.org/abs/2002.03250 . Physical Review Letters, 2020, 124, 032502.	2.9	14
44	First-excited state g factor of ^{136}Te by the recoil in vacuum method. Physical Review C, 2017, 96, .	1.1	13
45	Complete high-spin structure of ^{57}Co . Physical Review C, 2003, 67, .	1.1	12
46	Excited states of the proton emitter ^{105}Sb . Physical Review C, 2002, 65, .	1.1	11
47	Test of calculations with single-particle density dependent pairing in ^{132}Te . Physical Review C, 2004, 69, .	1.1	9
48	Lifetime measurements and terminating structures in ^{87}Nb . Physical Review C, 2003, 67, .	1.1	8
49	First nuclear moment measurement with radioactive beams by recoil-in-vacuum method: g -factor of the $2+1$ state in ^{132}Te . European Physical Journal A, 2005, 25, 205-208.	1.0	4
50	Coulomb excitation of odd- A neutron-rich radioactive beams. European Physical Journal A, 2005, 25, 395-396.	1.0	3
51	Developing techniques to study $A \approx 132$ nuclei with (d, p) reactions in inverse kinematics. European Physical Journal A, 2005, 25, 283-285.	1.0	1
52	NUCLEAR STRUCTURE STUDIES WITH HEAVY NEUTRON-RICH RIBS AT THE HRIBF. , 2003, , .		1
53	Comparative lifetimes of superdeformed bands in $A \approx 1480$ Nuclei. , 1999, , .		0
54	Plans for constructing a next-generation ISOL facility at ORNL. , 1999, , .		0

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55	Nuclear Structure Studies With Neutron-Rich RIBS At The HRIBF. AIP Conference Proceedings, 2003, , .	0.3	0
56	^{132}Te and single-particle density-dependent pairing. European Physical Journal A, 2005, 25, 389-390.	1.0	0
57	Studies Of Neutron-Rich Nuclei With (d,p) Reactions In Inverse Kinematics At The HRIBF. AIP Conference Proceedings, 2005, , .	0.3	0
58	GYROMAGNETIC RATIOS IN NEUTRON-RICH NUCLEI BY THE RECOIL IN VACUUM TECHNIQUE. , 2013, , .		0
59	NUCLEAR STRUCTURE STUDIES WITH ISOL BEAMS AT THE HRIBF. , 2003, , .		0