

Elena Lawrie

List of Publications by Year in descending order

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all docs

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docs citations

63
times ranked

446
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence for Octupole Correlations in Multiple Chiral Doublet Bands. Physical Review Letters, 2016, 116, 112501.	7.8	86
2	Possible chirality in the doubly-odd ^{119}Tl nucleus: Residual interaction at play. Physical Review C, 2008, 78, .	2.9	75
3	Congruent band structures in ^{154}Gd : Configuration-dependent pairing, a double vacuum and lack of β -vibrations. European Physical Journal A, 2011, 47, 1.	2.5	44
4	Reaching degeneracy in two-quasiparticle chiral bands. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 689, 66-71.	4.1	35
5	Nonzero Quadrupole Moments of Candidate Tetrahedral Bands. Physical Review Letters, 2010, 104, 022501.	7.8	31
6	Studies of chirality in the mass 80, 100 and 190 regions. International Journal of Modern Physics E, 2014, 23, 1461001.	1.0	30
7	Blocking of coupling to the 0_2^+ excitation in ^{154}Gd by the $[505]11/2^-$ neutron in ^{155}Gd . European Physical Journal A, 2011, 47, 1.	2.5	28
8	Octupole correlations in the structure of ^{154}Gd . Physical Review Letters, 2010, 104, 022501.	2.9	24
9	Identifying chiral bands in real nuclei. European Physical Journal A, 2012, 48, 1.	2.5	22
10	Rotational bands and chirality in ^{194}Tl . European Physical Journal A, 2014, 50, 1.	2.5	22
11	Tilted precession and wobbling in triaxial nuclei. Physical Review C, 2020, 101, .	2.9	22
12	Six-quasiparticle isomer in ^{140}Nd . Physical Review C, 2006, 74, .	2.9	21
13	Candidate chiral bands in ^{198}Tl . European Physical Journal A, 2010, 45, 39-50.	2.5	19
14	DSAM lifetime measurements for the chiral pair in ^{194}Tl . European Physical Journal A, 2016, 52, 1.	2.5	17
15	High-spin states in ^{191}Au : Evidence for triaxial shape?. Physical Review C, 2003, 68, .	2.9	16
16	Electric dipole moments in ^{230}U and ^{232}U : implications for tetrahedral shapes. Physical Review C, 2010, 82, .	2.9	14
17	Shears band with a large dynamic moment of inertia in ^{197}Bi . European Physical Journal A, 2005, 25, 49-55.	2.5	13
18	First application of the Oslo method in inverse kinematics. European Physical Journal A, 2020, 56, 1.	2.5	13

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19	Sets of rotation-aligned bands indicating nonaxiality in Au190. Physical Review C, 2004, 69, .	2.9	12
20	Decay of Be6 populated in the Li6 (He3, H3) charge-exchange reaction. Physical Review C, 2010, 81, .	2.9	12
21	Nature of low-lying electric dipole resonance excitations in ^{74}Ge . Physical Review C, 2016, 94, .	2.9	12
22	Octupole correlations in ^{154}Dy : Octupole vibration versus stable deformation. Physical Review C, 2016, 94, .	2.9	12
23	\hat{I}^2 and \hat{I}^3 bands in N=88, 90, and 92 isotones investigated with a five-dimensional collective Hamiltonian based on covariant density functional theory: Vibrations, shape coexistence, and superdeformation. Physical Review C, 2019, 100, .	2.9	10
24	New candidate chiral nucleus in the ^{80}Br mass region: ^{82}Br . Physical Review C, 2019, 100, .	2.9	10
25	Tilted precession bands in Nd135. Physical Review C, 2021, 103, .	2.9	9
26	Spectroscopy of ^{76}Se : Prolate-to-oblate shape transition. Physical Review C, 2015, 91, .	2.9	8
27	Identification of high-K rotation in Ba130: Testing the consistency of electromagnetic observables. Physical Review C, 2019, 99, .	2.9	8
28	Low-lying positive parity bands in ^{162}Yb . European Physical Journal A, 2018, 54, 1.	2.5	7
29	α -Stapler mechanism for a dipole band in ^{79}Se . Physical Review C, 2019, 100, .	2.5	6
30	Multiple many-particle chiral systems described within the particle-rotor model. European Physical Journal A, 2016, 52, 1.	2.5	5
31	Competition of rotation around the intermediate and long axes in ^{1193}Tl . Physical Review C, 2019, 100, .	2.9	5
32	A fast-timing array of $^{23}\text{LaBr}_3$ Ce detectors for lifetime measurements of excited nuclear states. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1026, 166195.	1.6	5
33	Pseudospin partner bands in ^{130}Ba . Physical Review C, 2020, 102, .	2.9	4
34	Measurement and analysis of nuclear \hat{I}^3 -ray production cross sections in proton interactions with Mg, Si, and Fe nuclei abundant in astrophysical sites over the incident energy range < 30 MeV. Physical Review C, 2020, 102, .	2.9	4
35	First candidates for \hat{I}^3 vibrational bands built on the $[505]11/2^+$ neutron orbital in odd-A Dy isotopes. Physical Review C, 2020, 101, .	2.9	4
36	New nanosecond isomers identified with the AFRODITE array. European Physical Journal A, 2003, 20, 47-48.	2.5	3

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37	High-resolution two-proton stripping to 2p-1h 7/2- states via the $^{59}\text{Co}(^3\text{He},n\ \gamma)^{61}\text{Cu}$ reaction. European Physical Journal A, 2014, 50, 1.	2.5	3
38	Spectroscopy of low-spin states in ^{157}Dy : Search for evidence of enhanced octupole correlations. Physical Review C, 2019, 100, .	2.9	3
39	Low- and medium-spin negative-parity bands in the ^{187}Os nucleus. Physical Review C, 2021, 103, .	2.9	3
40	Spectroscopy of ^{155}Yb : Structure evolution in the ^{155}N \rightarrow ^{85}N transition. Physical Review C, 2016, 94, .	2.9	2
41	Decay patterns of multi-quasiparticle bands—a model independent test of chiral symmetry. Physica Scripta, 2017, 92, 094006.	2.5	2
42	Evolution from quasivibrational to quasirotational structure in ^{155}Tm and yrast $27/2^+$ to $25/2^+$ energy anomaly in the $A \approx 150$ mass region. Physical Review C, 2018, 97, .	2.9	2
43	New collective structures in the ^{163}Yb nucleus. European Physical Journal A, 2019, 55, 1.	2.5	2
44	Angular correlation measurements with a segmented clover detector in a close geometry. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, , 165458.	1.6	2
45	Possible chiral bands in ^{194}Tl . , 2011, , .		1
46	Spin-parity assignments and extension of the 0_2^+ -band in ^{158}Er . EPJ Web of Conferences, 2013, 63, 01005.	0.3	1
47	Proportional crosstalk correction for the segmented clover at iThemba LABS. Physica Scripta, 2017, 92, 114004.	2.5	1
48	Spectroscopic study of the possibly triaxial transitional nucleus ^{75}Ge . Physical Review C, 2018, 97, .	2.9	1
49	Structure of collective states built on the $11/2^+$ isomer in ^{187}Os : Quasiparticle-plus-triaxial-rotor model and interpretation as tilted-precession bands. Physical Review C, 2021, 104, .	2.9	1
50	Signature splitting of the ^{157}Dy bands in ^{157}Ba . Physical Review C, 2021, 104, .	2.9	1
51	Implications for tetrahedral shapes [Phys. Rev. C, 82, 041305 (2010)]. Physical Review C, 2010, 82, .	2.9	0
52	Dipole Bands in ^{196}Hg . , 2011, , .		0
53	B(M1) Staggering in Two-Quasiparticle Chiral Bands. , 2011, , .		0
54	Reaching Degeneracy In Two-Quasiparticle Chiral Bands. , 2011, , .		0

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55	CHARACTERISTICS OF TWO-QUASIPARTICLE CHIRAL BANDS. International Journal of Modern Physics E, 2011, 20, 358-363.	1.0	0
56	EXPERIMENTAL INVESTIGATION OF 6Be CLUSTER DECAY. International Journal of Modern Physics E, 2011, 20, 1034-1037.	1.0	0
57	Study of 0^+ States at iThemba LABS. EPJ Web of Conferences, 2013, 63, 01015.	0.3	0
58	Studies of chirality in the MASS 80, 100 and 190 regions. , 2014, , .		0
59	DSAM lifetime measurements for the chiral bands in ^{194}Tl . Journal of Physics: Conference Series, 2016, 724, 012028.	0.4	0
60	Search for two-phonon octupole excitations in ^{146}Gd . European Physical Journal A, 2016, 52, 1.	2.5	0
61	Rotational structures in ^{196}Hg . Physical Review C, 2019, 100, 2.9		0
62	Chiral Symmetry in Real Nuclei. , 2013, , 139-148.		0
63	Reorientation-effect measurement of the ^{208}Po matrix element in ^{208}Po . Physical Review C, 2021, 104, .		0