Elena Lawrie

List of Publications by Year
in descending order

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63	693	567281 15	580821 25
papers	citations	h-index	g-index

63	63	63	446
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A fast-timing array of 2â€•x 2â€•LaBr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e2165" altimg="si19.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>3</mml:mn></mml:mrow></mml:msub></mml:math>: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
2	Low- and medium-spin negative-parity bands in the Os187 nucleus. Physical Review C, 2021, 103, .	2.9	3
3	Tilted precession bands in Nd135. Physical Review C, 2021, 103, .	2.9	9
4	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
5	Structure of collective states built on the 11/2+ isomer in Os187 : Quasiparticle-plus-triaxial-rotor model and interpretation as tilted-precession bands. Physical Review C, 2021, 104, .	2.9	1
6	Reorientation-effect measurement of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>âŒ©</mml:mo><mml:msubsup><mml:mn>2</mml:mn><mml:mn>1</mml:mn><mml:mo accent="true">^</mml:mo></mml:msubsup><mml:mo>|</mml:mo><mml:mi>E</mml:mi><mml:mo>Ì‚</mml:mo><mml:mo>|</mml:mo></mml:mover><mml:mn>2</mml:mn><mml:mo>âˆ¥</mml:mo><mml:msub><mml:mi>E</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:mo>âˆ¥</mml:mo><mml:mover><mml:mn>2</mml:mn><mml:mo>Ì‚</mml:mo></mml:mover><mml:mo>|</mml:mo><mml:mi>E</mml:mi><mml:mo>Ì‚</mml:mo><mml:mo>|</mml:mo></mml:mrow></mml:math> matrix element in <mml:math xmlns:mml="http://www.w3.o. Physical Review C, 2021, 104, .	2.9	0
7	Signature splitting of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>g</mml:mi><mml:mrow><mml:mn>7</mml:mn></mml:mrow></mml:msub></mml:math> bands in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ba</mml:mi><mml:mn></mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2021, 104, .	2.9	1
8	Pseudospin partner bands in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ba</mml:mi><mml:mprescripts /><mml:none /><mml:mn>130</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2020, 102,	2.9	4
9	Measurement and analysis of nuclear <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î³</mml:mi></mml:math> -ray production cross sections in proton interactions with Mg, Si, and Fe nuclei abundant in astrophysical sites over the incident energy range <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>E</mml:mi><mml:mo>=</mml:mo><mml:mn>30</mml:mn></mml:mrow></mml:math> MeV. Physical Review C, 2020, 102, .	2.9	4
10	Tilted precession and wobbling in triaxial nuclei. Physical Review C, 2020, 101, .	2.9	22
11	First application of the Oslo method in inverse kinematics. European Physical Journal A, 2020, 56, 1.	2.5	13
12	First candidates for Î³ vibrational bands built on the [505]11/2â^' neutron orbital in odd- A Dy isotopes. Physical Review C, 2020, 101, .	2.9	4
13	Competition of rotation around the intermediate and long axes in Tl193. Physical Review C, 2019, 100, .	2.9	5
14	Î² and Î³ 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
15	â€œStaplerâ€•mechanism for a dipole band in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Se</mml:mi><mml:mprescripts /><mml:none /><mml:mn>79</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2019, 100, .	2.9	6
16	Spectroscopy of low-spin states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Dy</mml:mi><mml:mprescripts /><mml:none /><mml:mn>157</mml:mn></mml:mmultiscripts></mml:math> : Search for evidence of enhanced octupole correlations. Physical Review C, 2019, 100, .	2.9	3
17	New collective structures in the 163Yb nucleus. European Physical Journal A, 2019, 55, 1.	2.5	2
18	New candidate chiral nucleus in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>A</mml:mi><mml:mo>â‰ˆ</mml:mo><mml:mn>80</mml:mn></mml:mrow></mml:math> mass region: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Br</mml:mi><mml:mn>47</mml:mn><mml:none /><mml:mprescripts /><mml:mn>35</mml:mn><mml:mn>82</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2019, 100, .	2.9	10

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19	Rotational structures in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Hg</mml:mi><mml:mprescripts /><mml:none /><mml:mn>196</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2019, 100, .	2.9	0
20	Identification of high- K rotation in Ba130 : Testing the consistency of electromagnetic observables. Physical Review C, 2019, 99, .	2.9	8
21	Evolution from quasivibrational to quasirotational structure in Tm155 and yrast 27/2â^ to 25/2â^ energy anomaly in the Aâ‰ˆ150 mass region. Physical Review C, 2018, 97, .	2.9	2
22	Spectroscopic study of the possibly triaxial transitional nucleus 75Ge. Physical Review C, 2018, 97, .	2.9	1
23	Low-lying positive parity bands in 162Yb. European Physical Journal A, 2018, 54, 1.	2.5	7
24	Proportional crosstalk correction for the segmented clover at iThemba LABS. Physica Scripta, 2017, 92, 114004.	2.5	1
25	Decay patterns of multi-quasiparticle bandsâ€”a model independent test of chiral symmetry. Physica Scripta, 2017, 92, 094006.	2.5	2
26	Nature of low-lying electric dipole resonance excitations in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ge</mml:mi><mml:mprescripts /><mml:none /><mml:mn>74</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2016, 94, .	2.9	12
27	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Yb</mml:mi><mml:mprescripts /><mml:none /><mml:mn>155</mml:mn></mml:mmultiscripts></mml:math>: Structure evolution in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>85</mml:mn> Physical Review C, 2016, 94, .	2.9	2
28	Evidence for Octupole Correlations in Multiple Chiral Doublet Bands. Physical Review Letters, 2016, 116, 112501.	7.8	86
29	Octupole correlations in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>88</mml:mn> width="0.16em" /><mml:mmultiscripts><mml:mi>Dy</mml:mi><mml:mprescripts /><mml:none /><mml:mn>154</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> : Octupole vibration versus stable deformation. Physical Review C, 2016, 94, .	2.9	12
30	DSAM lifetime measurements for the chiral bands in194Tl. Journal of Physics: Conference Series, 2016, 724, 012028.	0.4	0
31	Multiple many-particle chiral systems described within the particle-rotor model. European Physical Journal A, 2016, 52, 1.	2.5	5
32	DSAM lifetime measurements for the chiral pair in 194Tl. European Physical Journal A, 2016, 52, 1.	2.5	17
33	Search for two-phonon octupole excitations in 146Gd. European Physical Journal A, 2016, 52, 1.	2.5	0
34	Spectroscopy of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Se</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>76</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>: Prolate-to-oblate shape transition. Physical Review C, 2015, 91, .	2.9	8
35	Studies of chirality in the mass 80, 100 and 190 regions. International Journal of Modern Physics E, 2014, 23, 1461001.	1.0	30
36	High-resolution two-proton stripping to 2p-1h 7/2- states via the 59Co(3He,n $gamma$)61Cu reaction. European Physical Journal A, 2014, 50, 1.	2.5	3

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37	Rotational bands and chirality in 194Tl. European Physical Journal A, 2014, 50, 1.	2.5	22
38	Studies of chirality in the MASS 80, 100 and 190 regions. , 2014, , .		0
39	Octupole correlations in the structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msubsup><mml:mn>0</mml:mn><mml:mn>2</mml:mn><mml:mo>+</mml:mo></mml:msubsup></mml:math>in the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>N</mml:mi><mml:mo>=</mml:mo><mml:mn>88</mml:mn></mml:mrow></mml:math>nuclei<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:	2.9	24
40	Spin-parity assignments and extension of the 02+band in158Er. EPJ Web of Conferences, 2013, 63, 01005.	0.3	1
41	Study of 0+States at iThemba LABS. EPJ Web of Conferences, 2013, 63, 01015.	0.3	0
42	Chiral Symmetry in Real Nuclei. , 2013, , 139-148.		0
43	Identifying chiral bands in real nuclei. European Physical Journal A, 2012, 48, 1.	2.5	22
44	Congruent band structures in 154Gd : Configuration-dependent pairing, a double vacuum and lack of $ eta$ -vibrations. European Physical Journal A, 2011, 47, 1.	2.5	44
45	Blocking of coupling to the 02 + excitation in 154Gd by the [505]11/2- neutron in 155Gd. European Physical Journal A, 2011, 47, 1.	2.5	28
46	Dipole Bands in [sup 196]Hg. , 2011, , .		0
47	B(M1) Staggering in Two-Quasiparticle Chiral Bands. , 2011, , .		0
48	Reaching Degeneracy In Two-Quasiparticle Chiral Bands. , 2011, , .		0
49	CHARACTERISTICS OF TWO-QUASIPARTICLE CHIRAL BANDS. International Journal of Modern Physics E, 2011, 20, 358-363.	1.0	0
50	EXPERIMENTAL INVESTIGATION OF 6Be CLUSTER DECAY. International Journal of Modern Physics E, 2011, 20, 1034-1037.	1.0	0
51	Possible chiral bands in [sup 194]Tl. , 2011, , .		1
52	Candidate chiral bands in 198Tl. European Physical Journal A, 2010, 45, 39-50.	2.5	19
53	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
54	Decay ofBe6populated in theLi6(He3,H3) charge-exchange reaction. Physical Review C, 2010, 81, .	2.9	12

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55	Nonzero Quadrupole Moments of Candidate Tetrahedral Bands. Physical Review Letters, 2010, 104, 022501.	7.8	31
56	Electric dipole moments in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">U</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>230</mml:mn><mml:mo>,</mml:mo><mml:mn>232</mml:mn></mml:mrow></mml:mmultiscripts></mml:m implications for tetrahedral shapes. Physical Review C, 2010, 82, .	2.9	14
57	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mmultiscripts><mml:mi mathvariant="normal">U</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>230</mml:mn><mml:mo>,</mml:mo><mml:mn>232</mml:mn></mml:mrow></mml:mmultiscripts></mml:m implications for tetrahedral shapes [Phys. Rev. C PRVCAN0556-281310.1103/PhysRevC.82.04130582, 041305 (2010)]. Physical Review C, 2010, 82, .	2.9	0
58	Possible chirality in the doubly-oddTl198nucleus: Residual interaction at play. Physical Review C, 2008, 78, .	2.9	75
59	Six-quasiparticle isomer inNd140. Physical Review C, 2006, 74, .	2.9	21
60	Shears band with a large dynamic moment of inertia in 197Bi. European Physical Journal A, 2005, 25, 49-55.	2.5	13
61	Sets of rotation-aligned bands indicating nonaxiality inAu190. Physical Review C, 2004, 69, .	2.9	12
62	New nanosecond isomers identified with the AFRODITE array. European Physical Journal A, 2003, 20, 47-48.	2.5	3
63	High-spin states inAu191: Evidence for triaxial shape?. Physical Review C, 2003, 68, .	2.9	16