

Stefan Lalkovski

List of Publications by Year in descending order

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123
papers

2,570
citations

172457

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125
all docs

125
docs citations

125
times ranked

1215
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of Isomeric Decays in the ^{82}Cd Process Waiting-Point Nucleus Isomeric states observed in heavy neutron-rich nuclei populated in the fragmentation of a ^{208}Pb beam. Physical Review C, 2011, 84, .	7.8	135
2	Recent results in fragmentation isomer spectroscopy with rising. Nuclear Instruments & Methods in Physics Research B, 2007, 261, 1079-1083.	1.4	84
4	In-beam measurements of sub-nanosecond nuclear lifetimes with a mixed array of HPGe and LaBr ₃ :Ce detectors. European Physical Journal A, 2010, 46, 329-336.	2.5	82
5	The generalized centroid difference method for picosecond sensitive determination of lifetimes of nuclear excited states using large fast-timing arrays. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 726, 191-202.	1.6	81
6	Nuclear Data Sheets for A = 207. Nuclear Data Sheets, 2011, 112, 707-853.	2.2	79
7	Single particle behavior at ^{126}N Isomeric decays in neutron-rich ^{126}N and ^{126}O . Physical Review C, 2009, 80, .	2.9	73
8	Isomeric decays in neutron-rich ^{204}Pt spectroscopy of neutron-rich tantalum nuclei: Shape evolution in neutron-rich tungsten isotopes. Physical Review C, 2009, 80, .	2.9	69
9	^{132}Sn -Decay Half-Lives of Neutron-Rich ^{132}Sn Measurements of high-energy α -rays with detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, 76-79.	1.6	68
10	Measurements of high-energy α -rays with detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, 76-79.	1.6	60
11	Germanium-gated ^{133}I fast timing of excited states in fission fragments using the EXILL&FATIMA spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 763, 210-220.	1.6	58
12	Nuclear Data Sheets for A = 200. Nuclear Data Sheets, 2007, 108, 1471-1582.	2.2	53
13	Lifetime measurements of the first ^{104}Zr states in ^{104}Zr : Evolution of ground-state deformations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 448-452.	4.1	52
14	Nuclear Data Sheets for A = 112. Nuclear Data Sheets, 2015, 124, 157-412.	2.2	49
15	Evolution of the ^{132}Sn shell gap below ^{132}Sn inferred from core excited states in ^{131}In . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 672, 313-316.	4.1	48
16	High-spin states in ^{96}Zr nuclei. Physical Review C, 2005, 72, .	2.9	46
17	Half-Life Systematics across the ^{126}N Closure: Role of First-Forbidden Transitions in the ^{126}N Spherical proton-neutron structure of isomeric states in ^{126}N . Physical Review C, 2009, 79, .	7.8	45
18	Spherical proton-neutron structure of isomeric states in ^{128}Cd . Physical Review C, 2009, 79, .	2.9	39

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19	EXILL – a high-efficiency, high-resolution setup for \hat{I}^3 -spectroscopy at an intense cold neutron beam facility. <i>Journal of Instrumentation</i> , 2017, 12, P11003-P11003.	1.2	39
20	High-spin study of odd- A 49In isotopes beyond the neutron mid-shell. <i>European Physical Journal A</i> , 2002, 15, 315-323.	2.5	38
21	Experimental study of the lifetime and phase transition in neutron-rich ^{102}Zr . <i>Physical Review Letters</i> , 2009, 102, 172501.	2.9	38
22	Weakly deformed oblate structures in ^{102}Zr . <i>Physical Review Letters</i> , 2009, 102, 172501.	2.9	37
23	Proton "hole" excitation in the closed shell nucleus ^{205}Au . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009, 672, 116-119.	4.1	37
24	High-spin structures of $^{121, 123, 125, 127}\text{Sb}$ nuclei: Single proton and core-coupled states. <i>European Physical Journal A</i> , 2005, 24, 39-49.	2.5	36
25	High-spin structure of the neutron-rich $^{109, 111, 113}\text{Rh}$ isotopes. <i>European Physical Journal A</i> , 2002, 15, 429-433.	2.5	34
26	First observation of the decay of a ^{15}Ag isomer. <i>Physical Review Letters</i> , 2013, 110, 082501.	2.9	33
27	Isomeric states in ^{208}Pb . <i>Physical Review Letters</i> , 2013, 110, 082502.	2.9	31
28	Core-coupled states and split proton-neutron quasiparticle multiplets in $^{122, 126}\text{Ag}$. <i>Physical Review C</i> , 2013, 87, 054307.	2.9	31
29	Abrupt shape transition at neutron number $Z=60$ in ^{107}Ag . <i>Physical Review C</i> , 2009, 80, 044312.	2.9	29
30	Core-coupled states in ^{107}Ag . <i>Physical Review C</i> , 2009, 80, 044312.	2.9	29
31	FATIMA – FAST TIMing Array for DESPEC at FAIR. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 969, 163967.	1.6	29
32	Two-quasiparticle and collective excitations in transitional $^{108, 110}\text{Pd}$ nuclei. <i>European Physical Journal A</i> , 2003, 18, 589-596.	2.5	28
33	The mutable nature of particle-core excitations with spin in the one-valence-proton nucleus ^{133}Sb . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 760, 273-278.	4.1	27
34	Electromagnetic transition rates in the ^{133}Sb nucleus. <i>Physical Review C</i> , 2013, 87, 044304.	2.9	25
35	\hat{I}^2 -ray spectroscopy of ^{133}Sb . <i>Physical Review C</i> , 2013, 87, 044304.	2.9	25
36	Enhanced time response of 1-in. $\text{LaBr}_3(\text{Ce})$ crystals by leading edge and constant fraction techniques. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 795, 144-150.	1.6	25

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37	Coherent quadrupole-octupole modes and split parity-doublet spectra in odd- A nuclei. <i>Physical Review C</i> , 2007, 76, .	2.9	24
38	ISOMERIC DECAY STUDIES IN NEUTRON-RICH $N = 126$ NUCLEI. <i>International Journal of Modern Physics E</i> , 2009, 18, 1002-1007.	1.0	24
39	Long-lived K isomer and enhanced \hat{I}^3 vibration in the neutron-rich nucleus ^{172}Dy : Collectivity beyond double midshell. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 760, 641-646.	4.1	24
40	Neutron-proton pairing competition in $N > Z$ nuclei: Metastable state decays in the proton dripline nuclei ^{8241}Nb and ^{8643}Tc . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008, 660, 326-330.	4.1	23
41	FIRST RESULTS WITH THE RISING ACTIVE STOPPER. <i>International Journal of Modern Physics E</i> , 2008, 17, 8-20.	1.0	23
42	Octupole collectivity in ^{98}Mo , ^{100}Mo , ^{102}Mo . <i>Physical Review C</i> , 2007, 75, .	2.9	22
43	coincidence and fast-timing measurements using $\text{LaBr}_3(\text{Ce})$ detectors and gammasphere. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 652, 231-233.	1.6	21
44	Multiple \hat{I}^2 decaying states in ^{194}Re : Shape evolution in neutron-rich osmium isotopes. <i>Physical Review C</i> , 2012, 85, .	2.9	21
45	Evolution of deformation and collectivity in neutron-rich tungsten isotopes. <i>Physical Review C</i> , 2013, 88, .	2.9	21
46	Is seniority a partial dynamic symmetry in the first $\hat{I}^3_{g9/2}$ shell?. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2018, 781, 706-712.	4.1	21
47	Isomer spectroscopy of ^{127}Cd . <i>Physical Review C</i> , 2010, 82, .	2.9	20
48	In-beam fast-timing measurements in ^{103}Cd and ^{105}Cd . <i>Physical Review C</i> , 2011, 84, .	2.9	20
49	Investigation of $B(E_{g1})$ in ^{90}Kr . <i>Physical Review C</i> , 2014, 90, .	2.9	20
50	K-mixing in the doubly mid-shell nuclide ^{170}Dy and the role of vibrational degeneracy. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 762, 404-408.	4.1	20
51	Shape coexistence and isomeric states in neutron-rich ^{112}Tc and ^{113}Tc . <i>Physical Review C</i> , 2010, 82, .	2.9	18
52	New isomer in ^{96}Y marking the onset of deformation at $N = 57$. <i>Europhysics Letters</i> , 2017, 117, 12001.	2.0	18
53	Measurement of picosecond lifetimes in neutron-rich Xe isotopes. <i>Physical Review C</i> , 2016, 94, .	2.9	17
54	Investigation of ^{198}Hg after two-neutron pickup. <i>Physical Review C</i> , 2013, 87, .	2.9	16

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55	Shape evolution of neutron-rich Mo isotopes in the triaxial domain. <i>Physical Review C</i> , 2020, 101, .	2.9	16
56	Evolution of the $\pi g_{9/2}$ $u h_{11/2}$ configuration in the neutron-rich ${}^{110,112}\text{Rh}$ and ${}^{114,116}\text{Ag}$ isotopes. <i>European Physical Journal A</i> , 2003, 18, 25-30.	2.5	15
57	Quasi- \hat{I}^3 band and odd-even staggering effect in $\text{Ru}102$. <i>Physical Review C</i> , 2005, 71, .	2.9	15
58	The population of metastable states as a probe of relativistic-energy fragmentation reactions. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 723, 302-306.	4.1	15
59	Structure of neutron-rich nuclei around the $N = 126$ closed shell; the yrast structure of ${}^{205}\text{Au}126$ up to spin-parity $I^\pi = (19/2^+)$. <i>European Physical Journal A</i> , 2009, 42, 489.	2.5	14
60	Configuration dependence of K -forbidden transition rates from three-quasiparticle isomers. <i>Physical Review C</i> , 2010, 81, .	2.9	12
61	Enhanced P -softness. <i>Physical Review C</i> , 2012, 86, .	2.9	12
62	Fast Timing Measurement Using an $\text{LaBr}_3(\text{Ce})$ Scintillator Detector Array Coupled with Gammaphere. <i>Acta Physica Polonica B</i> , 2017, 48, 351.	0.8	12
63	Evolution of collectivity in a ground \hat{I}^3 -band mixing scheme for even-even transitional nuclei. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, 427-444.	3.6	11
64	Isomeric decay studies around ${}^{204}\text{Pt}$ and ${}^{148}\text{Tb}$. <i>European Physical Journal: Special Topics</i> , 2007, 150, 165-168.	2.6	11
65	IBM-1 calculations towards the neutron-rich nucleus Zr . <i>Physical Submicrosecond isomer in ${}^{106}\text{Zr}$</i>	2.9	11
66	Competition between Allowed and First-Forbidden Rh decay: The Case of ${}^{117}\text{Rh}$	2.9	11
67	Precision Lifetime Measurements Using LaBr_3 Detectors With Stable and Radioactive Beams. <i>EPJ Web of Conferences</i> , 2013, 63, 01008.	0.3	11
68	Test of the $\text{SO}(6)$ selection rule in ${}^{196}\text{Pt}$ using cold-neutron capture. <i>Nuclear Physics A</i> , 2015, 934, 1-7.	1.5	11
69	Octupole states in ${}^{208}\text{Tl}$	7.8	11
70	${}^{207}\text{Tl}$ studied through \hat{I}^2 decay. <i>Physical Review C</i> , 2020, 101, .	2.9	11
71	Half-life of the $15/2^+$ state of ${}^{135}\text{La}$: A test of $E2$ seniority relations. <i>Physical Review C</i> , 2017, 95, .	2.9	10
72	Lifetimes and shape-coexisting states of ${}^{99}\text{Zr}$. <i>Physical Review C</i> , 2019, 100, .	2.9	10

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73	Fast-timing measurements in the ground-state band of Pd114. Physical Review C, 2019, 100, .	2.9	10
74	Nuclear Data Sheets for A=105. Nuclear Data Sheets, 2019, 161-162, 1-353.	2.2	10
75	Low- γ boundary of the ^{108}Zr β -decay. Physical Review C, 2016, 93, .	2.9	9
76	Fast-timing study of the ^{108}Zr β -decay. Physical Review C, 2016, 93, .	2.9	8
77	Gamma-ray Spectroscopy in the Vicinity of ^{108}Zr . Acta Physica Polonica B, 2015, 46, 721.	0.8	8
78	Fast-timing study of the ^{108}Zr β -decay. Physical Review C, 2016, 93, .	2.9	8
79	Selection in the decay of the ^{108}Zr β -decay. Physical Review C, 2016, 93, .		

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91	The ($n, \hat{1}^3$) campaigns at EXILL. EPJ Web of Conferences, 2015, 93, 01014.	0.3	4
92	The UK NuSTAR Project. Acta Physica Polonica B, 2016, 47, 637.	0.8	4
93	Lifetime measurements in the Yrast magnetic band in ^{193}Pb . Journal of Physics G: Nuclear and Particle Physics, 2005, 31, S1559-S1562.	3.6	3
94	Investigation of 0^+ states in mercury isotopes after two-neutron transfer. EPJ Web of Conferences, 2014, 66, 02008.	0.3	3
95	Algebraic approach to the structure of the low-lying states in ^{100}Ru isotopes. Physical Review C, 2016, 93, .	2.9	3
96	Isomer Spectroscopy of Neutron-rich $^{165,167}\text{Tb}$. Acta Physica Polonica B, 2017, 48, 601.	0.8	3
97	^7Li -induced reactions for fast-timing with $\text{LaBr}_3\text{:Ce}$ detectors. , 2012, , .		2
98	^{194}Re : Shape evolution in neutron-rich osmium isotopes [Phys. Rev. C 85 , 034301 (2012)]. Physical Review C, 2012, 85, .	2.9	2
99	Fast-timing measurements in $^{95, 96}\text{Mo}$. Journal of Physics: Conference Series, 2012, 366, 012027.	0.4	2
100	The Generalized Centroid Difference method for lifetime measurements via $\hat{1}^3\text{-}\hat{1}^3$ coincidences using large fast-timing arrays. EPJ Web of Conferences, 2015, 93, 01013.	0.3	2
101	Isomer spectroscopy of neutron-rich ^{168}Tb . Radiation Physics and Chemistry, 2017, 140, 493-496.	2.8	2
102	Structure of the neutron mid-shell nuclei $^{64,66,111,113}\text{Ag}$. Physical Review C, 2017, 96, .	2.9	2
103	A time-of-flight correction procedure for fast-timing data of recoils with varying implantation positions at a spectrometer focal plane. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 933, 18-29.	1.6	2
104	Isomeric and $\hat{1}^2$ -decay spectroscopy of $^{173,174}\text{Ho}$. Physical Review C, 2020, 102, .	2.9	2
105	Fast-timing Measurements in ^{100}Zr Using $\text{LaBr}_3\text{(Ce)}$ Detectors Coupled with Gammasphere. Acta Physica Polonica B, 2018, 49, 555.	0.8	2
106	New Insights into the Structure of Exotic Nuclei Using the RISING Active Stopper. , 2009, , .		1
107	Structure of $N=126$ nuclei produced in fragmentation of ^{238}U . , 2009, , .		1
108	Heavy rotation $\hat{1}^2$ evolution of quadrupole collectivity centred at the neutron-rich doubly mid-shell nucleus ^{170}Dy . AIP Conference Proceedings, 2015, , .	0.4	1

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109	Optimization of the Time Response of LaBr ₃ (Ce) Detectors, and Its Dependence on Ce Concentration. , 2015, , .		1
110	Fast-timing measurements in neutron-rich odd-mass zirconium isotopes using LaBr ₃ :Ce detectors coupled with Gammasphere. EPJ Web of Conferences, 2018, 193, 05004.	0.3	1
111	\hat{I}^2 Decay Half-Lives of $A \approx 110$ Nuclei on the r -Process Path. , 2015, , .		1
112	Structure of the low-lying states in ^{99}Pd and ^{101}Pd . Physical Review C, 2022, 105, .	2.9	1
113	Electromagnetic Transition Rate Measurements in the $N=80$ Isotone, ^{138}Ce . Journal of Physics: Conference Series, 2012, 381, 012057.	0.4	0
114	First results of the (n, \hat{I}^3) EXILL campaigns at the Institut Laue Langevin using EXOGAM and FATIMA. Journal of Physics: Conference Series, 2014, 533, 012026.	0.4	0
115	Observation of the Ground State Bands in ^{109}Pd and ^{111}Pd . Journal of Physics: Conference Series, 2014, 533, 012035.	0.4	0
116	Shape Evolution in Neutron-Rich Ru Nuclei. , 2015, , .		0
117	Isomer-delayed gamma-ray spectroscopy of neutron-rich ^{166}Tb . EPJ Web of Conferences, 2017, 146, 10009.	0.3	0
118	The boundary of the $N=90$ shape phase transition: ^{148}Ce . Journal of Physics: Conference Series, 2018, 1023, 012022.	0.4	0
119	The \hat{I}^3 - \hat{I}^3 fast-timing technique and the EXILL&FATIMA campaign. EPJ Web of Conferences, 2018, 193, 04008.	0.3	0
120	Lifetime measurement in neutron-rich $A \sim 100$ nuclei. EPJ Web of Conferences, 2018, 193, 05003.	0.3	0
121	\hat{I}^2 - \hat{I}^3 and isomeric decay spectroscopy of ^{168}Dy . EPJ Web of Conferences, 2018, 178, 02023.	0.3	0
122	Half-Life Measurements of (2_{-1}^{+}) States in the Vicinity of ^{108}Zr and their Implications for Ground-State Deformations. , 2015, , .		0
123	Investigation of γ -ray Emission in Heavy Ion Induced Fission During the Cyclotron Beam-on Periods. Acta Physica Polonica B, 2016, 47, 723.	0.8	0