

Panu Ruotsalainen

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6384161/publications.pdf>

Version: 2024-02-01

151
papers

1,471
citations

331670

21
h-index

526287

27
g-index

155
all docs

155
docs citations

155
times ranked

920
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence against the wobbling nature of low-spin bands in ^{135}Pr . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 824, 136840.	4.1	8
2	Position sensitive plastic scintillator for beta particle detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2022, 1027, 166253.	1.6	4
3	Experimental evidence for transverse wobbling bands in ^{136}Nd . Physical Review C, 2022, 105, 044307.	2.9	8
4	Single-particle states and parity doublets in odd- Z ^{221}Ac and ^{225}Pa . Physical Review C, 2022, 105, 044308.	2.9	5
5	Coulomb excitation of the ^{225}Pa mirror pair. Physical Review C, 2022, 105, 044309.	2.9	5
6	Nanosecond-Scale Proton Emission from Strongly Oblate-Deformed ^{149}Lu . Physical Review Letters, 2022, 128, 112501.	7.8	13
7	Systematics of ^{149}Lu strength in the ^{149}Lu shell with the valence-space truncated similarity renormalization group. Physical Review C, 2022, 105, 044310.	2.9	18
8	Candidate revolving chiral doublet bands in ^{119}Cs . European Physical Journal A, 2022, 58, 1.	2.5	3
9	Refined description of the positive-parity bands and the extent of octupole correlations in ^{120}Ba . Physical Review C, 2022, 105, 044311.	2.9	2
10	Lifetime measurements of yrast states in ^{178}Pt using the charge plunger method with a recoil separator. European Physical Journal A, 2021, 57, 1.	2.5	1
11	Tilted precession bands in ^{135}Nd . Physical Review C, 2021, 103, .	2.9	9
12	Isomeric ^{13}Nd . Physical Review C, 2021, 103, .	2.9	1
13	Neutron excitations in ^{119}Ba . Physical Review C, 2021, 104, .	2.9	3
14	Lifetime measurements of excited states in $^{169,171,173}\text{Os}$: Persistence of anomalous $B(E2)$ ratios in transitional rare earth nuclei in the presence of a decoupled $i_{13/2}$ valence neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136527.	4.1	1
15	Evidence of oblate-prolate shape coexistence in the strongly-deformed nucleus ^{119}Cs . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 822, 136645.	4.1	5
16	Complete set of proton excitations in ^{119}Cs . Physical Review C, 2021, 104, .	2.9	6
17	Single-particle and collective excitations in the transitional nucleus ^{166}Os . Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 125101.	3.6	0
18	Rich band structure and multiple long-lived isomers in the odd-odd ^{118}Cs nucleus. Physical Review C, 2021, 104, .	2.9	1

#	ARTICLE	IF	CITATIONS
19	Mirror energy differences above the Of7/2 shell: First \hat{I}^3 -ray spectroscopy of the $T\hat{a}\hat{c}=\hat{a}\hat{c}\hat{a}^2$ nucleus ^{56}Zn . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 823, 136784.	4.1	9
20	First observation of high-K isomeric states in ^{249}Md and ^{251}Md . European Physical Journal A, 2021, 57, 1.	2.5	3
21	Identification of excited states in ^{55}Te . Physical Review C, 2021, 104, .	2.9	0
22	Stability of the heaviest elements: K isomer in No250. Physical Review C, 2020, 101, .	2.9	14
23	In-beam \hat{I}^3 -ray and electron spectroscopy of $^{249,251}\text{Md}$. Physical Review C, 2020, 102, .	2.9	6
24	Signatures of enhanced octupole correlations at high spin in ^{136}Nd . Physical Review C, 2020, 102, .	2.9	4
25	A charge plunger device to measure the lifetimes of excited nuclear states where transitions are dominated by internal conversion. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 979, 164454.	1.6	2
26	Exploring the boundaries of the nuclear landscape: ^{211}Pa -decay properties of ^{211}Pa . Physical Review C, 2020, 102, .	2.9	12
27	Multiple chiral bands in ^{137}Nd . European Physical Journal A, 2020, 56, 1.	2.5	10
28	Excited states in ^{217}Ra populated in the ^{217}Fr decay of ^{217}Ac . Physical Review C, 2020, 102, .	2.9	2
29	Study of excited states and observation of collective level structures in the odd-odd nucleus ^{194}Bi . European Physical Journal A, 2020, 56, 1.	2.5	2
30	Population of a low-spin positive-parity band from high-spin intruder states in ^{177}Au : The two-state mixing effect. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 806, 135488.	4.1	7
31	Isomeric $13/2^+$ state in ^{201}Fr . Physical Review C, 2020, 101, .	2.9	3
32	Evidence for octupole collectivity in ^{172}Pt . European Physical Journal A, 2020, 56, 1.	2.5	0
33	Delayed or absent $(h11/2)_2$ alignment in ^{111}Xe . Physical Review C, 2020, 101, .	2.9	1
34	First candidates for \hat{I}^3 vibrational bands built on the $[505]11/2\hat{a}^{\nu}$ neutron orbital in odd- A Dy isotopes. Physical Review C, 2020, 101, .	2.9	4
35	The jurogam $\hat{A}3$ spectrometer. European Physical Journal A, 2020, 56, 1.	2.5	24
36	High-spin states of ^{218}Th . Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 095103.	3.6	2

#	ARTICLE	IF	CITATIONS
37	Chirality of ^{135}Nd reexamined: Evidence for \hat{I}_{\pm} -spectroscopy studies of the new nuclides	2.9	19
38	^{165}Pt and ^{170}Hg \hat{I}_{\pm} -decay spectroscopy of the N=130 isotones Ra218 and Th220 : Mitigation of \hat{I}_{\pm} -particle energy summing with implanted nuclei. Physical Review C, 2019, 100, .	2.9	16
39	\hat{I}_{\pm} and \hat{I}_{\pm}^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
40	Spectroscopy of low-spin states in ^{157}Dy : Search for evidence of enhanced octupole correlations. Physical Review C, 2019, 100, .	2.9	3
41	Shape coexistence in Hg178. Physical Review C, 2019, 99, .	2.9	9
42	Fine structure in the \hat{I}_{\pm} decay of Lu156 and Ta158. Physical Review C, 2019, 99, .	2.9	0
43	Confirming band assignments in ^{167}Yb with gamma-gamma-electron triple-coincidence spectroscopy. European Physical Journal A, 2019, 55, 1.	2.5	18
44	Isospin symmetry in ^{20}B values: Coulomb excitation study of ^{20}Mg Shell evolution approaching the island of inversion: Structure of ^{20}N	2.9	19
45	Structure of ^{29}Mg . Physical Review C, 2019, 99, .	2.9	9
46	TPEN: A Triple-foil differential Plunger for lifetime measurements of excited states in Exotic Nuclei. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 923, 139-146.	1.6	0
47	Production cross section and decay study of Es243 and Md249. Physical Review C, 2019, 99, .	2.9	8
48	Highly deformed bands in Nd nuclei: New results and consistent interpretation within the cranked Nilsson-Strutinsky formalism. Physical Review C, 2019, 100, .	2.9	4
49	The GRIFFIN facility for Decay-Spectroscopy studies at TRIUMF-ISAC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 918, 9-29.	1.6	24
50	Low-lying electromagnetic transition strengths in ^{180}Pt	2.9	6
51	Lifetimes of low-lying excited states in Kr503686. Physical Review C, 2018, 97, .	2.9	1
52	Recoil distance method lifetime measurements at TRIUMF-ISAC using the TIGRESS Integrated Plunger. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 882, 69-83.	1.6	5
53	Advances at TRIUMF-ISAC and decay of neutron-rich Cd studied with GRIFFIN. EPJ Web of Conferences, 2018, 193, 04011.	0.3	0

#	ARTICLE	IF	CITATIONS
55	E0 transition strengths in 110Pd. European Physical Journal A, 2018, 54, 1.	2.5	3
56	Lifetime measurements of lowest states in the g_7^- rotational band in ^{156}Lu . Physical Review C, 2018, 98, .	2.9	0
57	I_{\pm}^{\pm} decay of high-spin isomers in ^{155}Lu and ^{155}Hf . Physical Review C, 2018, 98, .	2.9	5
58	Testing microscopically derived descriptions of nuclear collectivity: Coulomb excitation of ^{22}Mg . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 468-473.	4.1	42
59	In-beam internal conversion electron spectroscopy with the SPICE detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 905, 180-187.	1.6	9
60	Decay of a $19\alpha^-$ isomeric state in ^{156}Lu . Physical Review C, 2018, 98, .	2.9	2
61	Lifetime Measurements of Excited States in ^{172}Pt and the Variation of Quadrupole Transition Strength with Angular Momentum. Physical Review C, 2017, 96, .	7.8	24
62	Towards saturation of the electron-capture delayed fission probability: The new isotopes ^{240}Es and ^{236}Bk . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 265-270.	4.1	19
63	Backbending in the pear-shaped ^{223}Th nucleus: Evidence of a high-spin octupole to quadrupole shape transition in the actinides. Physical Review C, 2017, 95, .	2.9	8
64	Halo-induced large enhancement of soft dipole excitation of ^{11}Li observed via proton inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 268-272.	4.1	31
65	Recoil distance method lifetime measurement of the 21^+ state in ^{94}Sr and implications for the structure of neutron-rich Sr isotopes. Physical Review C, 2017, 96, .	2.9	6
66	De-excitation of the strongly coupled band in ^{177}Au and implications for core intruder configurations in the light Hg isotopes. Physical Review C, 2017, 95, .	2.9	9
67	Reduced transition probabilities along the yrast line in ^{166}W . Physical Review C, 2017, 96, .	2.9	18
68	Spin-dependent evolution of collectivity in ^{112}Te . Physical Review C, 2017, 96, .	2.9	8
69	W and W and W . Physical Review C, 2017, 96, .	2.9	5
70	Detailed spectroscopy of ^{195}Bi . Physical Review C, 2017, 96, .	2.9	8
71	High-statistics β -decay Measurements at TRIUMF-ISAC and the Transition from the π Spectrometer to GRIFFIN. Acta Physica Polonica B, 2017, 48, 523.	0.8	2
72	Deformation of the proton emitter ^{113}Cs from electromagnetic transition and proton-emission rates. Physical Review C, 2016, 94, .	2.9	6

#	ARTICLE	IF	CITATIONS
73	Observation of the γ transition in ^{114}Ba and ^{114}Xe . Physical Review C, 2016, 93, .	2.9	22
74	Excited states in the proton-unbound nuclide ^{158}Ta . Physical Review C, 2016, 93, .	2.9	4
75	Lifetime measurements in ^{166}Re . Physical Review C, 2016, 93, .	2.9	2
76	Evolving collective structures in the transitional nuclei ^{162}W and ^{162}Hf . Physical Review C, 2016, 93, .	2.9	8
77	Half-lives of ^{128}Cd and ^{130}Cd . Physical Review C, 2016, 94, .	2.9	21
78	Spectroscopy of ^{70}Kr and isospin symmetry in the shell nuclei. Physical Review C, 2016, 94, .	2.9	9
79	Identification of the $\pi=1/2^+$ state in ^{218}Ra populated via α decay of ^{222}Th . Physical Review C, 2016, 94, .	2.9	5
80	SPectrometer for Internal Conversion Electrons (SPICE) at TRIUMF-ISAC. EPJ Web of Conferences, 2016, 123, 04005.	0.3	4
81	Study of Intermediate-spin States of ^{98}Y . Acta Physica Polonica B, 2016, 47, 911.	0.8	2
82	First identification of rotational band structures in ^{175}Re . Physical Review C, 2015, 92, .	2.9	3
83	Recoil-decay tagging spectroscopy of ^{74}W . Physical Review C, 2015, 92, .	2.9	6
84	Search for the terminating 2^+ state in ^{140}Nd . Physical Review C, 2015, 92, .	2.9	3
85	Identification of a dipole band above the $\pi=31/2^+$ isomeric state in ^{189}Pb . Physical Review C, 2015, 92, .	2.9	4
86	Lifetime measurement of the first excited 2^+ state in ^{112}Te . Physical Review C, 2015, 91, .	2.9	20
87	Detailed spectroscopy of ^{112}Te . Physical Review C, 2015, 91, .	2.9	15
88	Decay and Fission Hindrance of Two- and Four-Quasiparticle States in ^{209}Bi . Physical Review C, 2015, 92, .	7.8	36
89	Unusually deformed isomeric proton-emitting state in ^{151}Lu . Physical Review C, 2015, 92, .	2.9	14
90	Spectroscopy of ^{201}At including the observation of a shears band and the 2^+ state. Physical Review C, 2015, 92, .	2.9	15

#	ARTICLE	IF	CITATIONS
91	Excitations in the transitional nuclei ^{163}Lu and ^{165}Lu . Physical Review C, 2015, , .	2.9	6
92	Spectroscopy of Very Heavy Elements at and Beyond the Limits. , 2015, , .		0
93	Investigation into the Effects of Deformation on Proton Emission Rates via Lifetime Measurements. , 2015, , .		0
94	Spectroscopy of ^{161}Lu from low to high spin. Physical Review C, 2014, 90, .	2.9	2
95	Quasiparticle alignments and \pm -decay fine structure of ^{175}Pt . Physical Review C, 2014, 89, .	2.9	3
96	Experimental study of ^{175}Pt . Physical Review C, 2014, 89, .	2.9	1
97	Production and investigation of neutron-rich Osmium isotopes with and around $N=126$ using gas flow transport method. Journal of Physics: Conference Series, 2014, 515, 012016.	0.4	1
98	Spectroscopy on the proton drip-line: Probing the structure dependence of isospin nonconserving interactions. Physical Review C, 2014, 90, .	2.9	17
99	Experimental investigation of the ^{140}Nd nucleus. Physical Review C, 2013, 88, .	2.9	14
100	Band in ^{140}Nd . Physical Review C, 2014, 89, .	4.1	13
101	Spectroscopy of ^{139}Nd . EPJ Web of Conferences, 2014, 66, 02047.	0.3	2
102	Proton emission from an oblate nucleus ^{151}Lu . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 79-84.	4.1	25
103	High-spin spectroscopy of ^{140}Nd . Physical Review C, 2013, 88, .	2.9	15
104	Isomer-tagged differential-plunger measurements in ^{113}Xe . Physical Review C, 2013, 87, .	2.9	9
105	A new differentially pumped plunger device to measure excited-state lifetimes in proton emitting nuclei. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 707, 143-148.	1.6	27
106	Identification of new transitions feeding the high-spin isomers in ^{139}Nd and ^{140}Nd nuclei. Physical Review C, 2013, 87, .	2.9	18
107	Spectroscopy of the proton drip-line nucleus ^{203}Fr . Physical Review C, 2013, 87, .	2.9	28
108	Recoil- β -tagging study of the $N=Z$ nucleus ^{66}As . Physical Review C, 2013, 88, .	2.9	16

#	ARTICLE	IF	CITATIONS
109	Isospin-breaking effect in the ^{66}Se nucleus. Physical Review C, 2013, 88, .	2.9	13
110	Competing single-particle and collective states in the low-energy structure of ^{113}In . Physical Review C, 2013, 88, .	2.9	3
111	Shell structure of ^{88}Zr in the ^{88}Zr nucleus. Physical Review C, 2013, 88, .	2.9	24
112	Enhancing the sensitivity of recoil-beta tagging. Journal of Instrumentation, 2013, 8, P04025-P04025.	1.2	10
113	First prompt in-beam ^{13}C -ray spectroscopy of a superheavy element: the ^{256}Rf . Journal of Physics: Conference Series, 2013, 420, 012010.	0.4	0
114	Transition probability studies in ^{175}Au . Journal of Physics: Conference Series, 2013, 420, 012047.	0.4	2
115	Prompt gamma ray-spectroscopy of $N=50$ fission fragments. EPJ Web of Conferences, 2013, 62, 01005.	0.3	6
116	Prompt ^{13}C -ray spectroscopy of the neutron-rich ^{124}Cd . EPJ Web of Conferences, 2013, 62, 01004.	0.3	4
117	A NEW PLUNGER DEVICE FOR INVESTIGATING THE EFFECTS OF DEFORMATION ON PROTON EMISSION RATES VIA LIFETIME MEASUREMENTS. , 2013, , .		0
118	Recoil-decay tagging study of ^{205}Fr . Physical Review C, 2012, 85, .	2.9	21
119	Shell structure and pairing interaction in superheavy nuclei: Rotational properties of the ^{104}Zr nucleus. Physical Review Letters, 2012, 109, 012501.	7.8	59
120	X(5) critical-point symmetries in ^{138}Gd . Journal of Physics: Conference Series, 2012, 381, 012062.	0.4	2
121	Investigation of high-K states in ^{252}No . Physical Review C, 2012, 86, .	2.9	28
122	First observation of excited states of ^{173}Hg . Physical Review C, 2012, 85, .	2.9	5
123	In-beam spectroscopy with intense ion beams: Evidence for a rotational structure in ^{246}Fm . Physical Review C, 2012, 85, .	2.9	17
124	Electromagnetic transition strengths in ^{109}Te . Physical Review C, 2012, 86, .	2.9	11
125	Decay measurements of the ^{13}C -decay measurements of the ^{13}C nucleus. Physical Review C, 2012, 86, .	2.9	9
126	Identification of isomeric states in the $N=73$ neutron-deficient nuclei ^{132}Pr and ^{130}La . Physical Review C, 2012, 86, .	2.9	5

#	ARTICLE	IF	CITATIONS
127	Comparison of gamma-ray coincidence and low-background gamma-ray singles spectrometry. Applied Radiation and Isotopes, 2012, 70, 392-396.	1.5	6
128	Anomalous transition strength in the proton-unbound nucleus ^{56}Li . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 118-122.	4.1	22
129	A Recoil-Beta Tagging Study of ^{210}Po nucleus [sup 66]As. , 2011, , .		0
130	Lifetime measurement in the proton-unbound nucleus ^{109}Li , 2011, , .		3
131	High- γ four-quasiparticle states in ^{138}Gd . Physical Review C, 2011, 83, .	2.9	7
132	Lifetime measurements probing triple shape coexistence in ^{175}Au . Physical Review C, 2011, 84, .	2.9	9
133	Combined in-beam electron and β -ray spectroscopy of ^{186}Hg . Lifetime measurement of the first excited ^{186}Hg state in ^{108}Te . Physical Review C, 2011, 84, .	2.9	29
134	Lifetime measurements in the transitional nucleus ^{186}Au . In-beam β -ray spectroscopy of the ^{186}Au nucleus. Physical Review C, 2011, 84, .	2.9	29
135	Lifetime measurements in the transitional nucleus ^{186}Au . In-beam β -ray spectroscopy of the ^{186}Au nucleus. Physical Review C, 2011, 84, .	2.9	4
136	Lifetime measurements in the transitional nucleus ^{186}Au . In-beam β -ray spectroscopy of the ^{186}Au nucleus. Physical Review C, 2011, 84, .	2.9	4
137	Investigation of ^{246}Fm : in-beam spectroscopy at the limits. , 2011, , .		0
138	Nuclear Structure at the Extremes; In-beam β -ray Spectroscopy of ^{180}Pb . , 2011, , .		0
139	New developments on the recoil distance doppler-shift method. Journal of Physics: Conference Series, 2010, 205, 012043.	0.4	3
140	Isomer-tagged differential-plunger measurements in proton-unbound ^{144}Ho . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 683, 17-20.	4.1	6
141	Discovery of ^{157}W and ^{161}Os . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 690, 15-18.	4.1	21
142	Prompt and delayed spectroscopy of ^{219}At . Physical Review C, 2010, 82, .	2.9	17
143	Lifetime measurements and shape coexistence in ^{144}Dy . Physical Spectroscopy of ^{144}Ho . Physical Review C, 2010, 81, .	2.9	7
144	Lifetime measurements and shape coexistence in ^{144}Dy . Physical Spectroscopy of ^{144}Ho . Physical Review C, 2010, 81, .	2.9	9

#	ARTICLE	IF	CITATIONS
145	Shape coexistence at the proton drip-line: First identification of excited states in ^{180}Pb . Physical Review C, 2010, 82, .	2.9	28
146	K Isomer in ^{252}No , 2010, . Spectroscopy of the neutron-deficient nucleus ^{167}Os		0
147	^{167}Os I γ -ray spectroscopy approaching the limits of existence of atomic nuclei: A study of the excited states of ^{167}Os . Physical Review C, 2010, 82, .	2.9	6
148	^{168}Pt and ^{168}Ir Rotational Bands in ^{168}Pt and ^{168}Ir . Physical Review C, 2010, 82, .	2.9	10
149	First observation of excited states in ^{175}Hf . Physical Review C, 2010, 82, .	7.8	34
150	^{175}Hf and ^{175}Ta Rotational Bands in ^{175}Hf and ^{175}Ta . Physical Review C, 2010, 82, .	2.9	15
151	^{175}Hf and ^{175}Ta Rotational Bands in ^{175}Hf and ^{175}Ta . Physical Review C, 2010, 82, .	1.6	6