

# Matti Leino

## List of Publications by Year in descending order

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149  
papers

3,883  
citations

147801

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149  
docs citations

149  
times ranked

1038  
citing authors

#	ARTICLE	IF	CITATIONS
1	A triplet of differently shaped spin-zero states in the atomic nucleus $^{186}\text{Pb}$ . <i>Nature</i> , 2000, 405, 430-433.	27.8	367
2	New results on elements 111 and 112. <i>European Physical Journal A</i> , 2002, 14, 147-157.	2.5	269
3	The reaction $^{48}\text{Ca} + ^{238}\text{U} \rightarrow ^{286}\text{112}^*$ studied at the GSI-SHIP. <i>European Physical Journal A</i> , 2007, 32, 251-260.	2.5	256
4	The reaction $^{48}\text{Ca} + ^{248}\text{Cm} \rightarrow ^{296}\text{116}^*$ studied at the GSI-SHIP. <i>European Physical Journal A</i> , 2012, 48, 1.	2.5	179
5	The new element 112. <i>Zeitschrift für Physik A</i> , 1996, 354, 229-230.	0.9	128
6	Decay properties of neutron-deficient isotopes $^{256}\text{Db}$ , $^{255}\text{Rf}$ , $^{252}\text{Lr}$ , $^{253}\text{Lr}$ . <i>European Physical Journal A</i> , 2001, 12, 57-67.	2.5	127
7	In-beam study of $^{254}\text{No}$ . <i>European Physical Journal A</i> , 1999, 6, 63-69.	2.5	112
8	Decay properties of neutron-deficient nuclei in the region $Z = 86-92$ . <i>European Physical Journal A</i> , 2000, 8, 521-535.	2.5	92
9	Spectroscopy and single-particle structure of the odd- $Z$ heavy elements $^{255}\text{Lr}$ , $^{251}\text{Md}$ and $^{247}\text{Es}$ . <i>European Physical Journal A</i> , 2006, 30, 397-411.	2.5	87
10	Decay studies of $K$ isomers in $^{254}\text{No}$ . <i>European Physical Journal A</i> , 2010, 43, 55.	2.5	76
11	$\beta_{\pm}$ decay studies of the nuclides $^{218}\text{U}$ and $^{219}\text{U}$ . <i>Physical Review C</i> , 2007, 75, .	2.9	75
12	Gamma-ray spectroscopy of $^{192}\text{Po}$ - $^{195}\text{Po}$ . <i>European Physical Journal A</i> , 1999, 6, 289-302.	2.5	70
13	Alpha-gamma decay studies of $^{251}\text{No}$ , $^{253}\text{No}$ and their daughter products $^{247}\text{Fm}$ , $^{249}\text{Fm}$ . <i>European Physical Journal A</i> , 2004, 22, 417-427.	2.5	70
14	THE NUCLEAR STRUCTURE OF HEAVY-ACTINIDE AND TRANS ACTINIDE NUCLEI. <i>Annual Review of Nuclear and Particle Science</i> , 2004, 54, 175-215.	10.2	68
15	High- $K$ structure in $^{250}\text{Fm}$ and the deformed shell gaps at $N=152$ and $Z=100$ . <i>Physical Review C</i> , 2008, 78, .	2.9	65
16	Alpha-decay studies of the new isotopes $^{191}\text{At}$ and $^{193}\text{At}$ . <i>European Physical Journal A</i> , 2003, 17, 537-558.	2.5	62
17	$\beta_{\pm}$ decay studies of very neutron-deficient francium and radium isotopes. <i>Physical Review C</i> , 2005, 71, .	2.9	62
18	Energy systematics of low-lying Nilsson levels in odd-mass einsteinium isotopes. <i>European Physical Journal A</i> , 2005, 26, 233-239.	2.5	60

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19	Investigations into the alpha-decay of $^{195}\text{At}$ . European Physical Journal A, 2003, 16, 457-467.	2.5	54
20	Fine structure in the $\hat{I}\pm$ decay of $^{188,192}\text{Po}$ . Physical Review C, 2003, 68, .	2.9	54
21	Alpha-gamma decay studies of $^{255}\text{Rf}$ , $^{251}\text{No}$ and $^{247}\text{Fm}$ . European Physical Journal A, 2006, 30, 561-569.	2.5	54
22	Decay properties of neutron-deficient isotopes of elements from $Z = 101$ to $Z = 108$ . European Physical Journal A, 2009, 41, 145-153.	2.5	53
23	Excitation function for the production of $^{265}\text{108}$ and $^{266}\text{109}$ . Zeitschrift für Physik A, 1997, 358, 377-378.	0.9	51
24	First observation of excited states in $^{184}\text{Pb}$ : spectroscopy beyond the neutron mid-shell. European Physical Journal A, 1998, 3, 17-20.	2.5	50
25	Alpha decay of the new isotopes $^{188,189}\text{Po}$ . European Physical Journal A, 1999, 6, 381-385.	2.5	45
26	$\hat{I}\pm$ decay studies of the nuclides $^{195}\text{Rn}$ and $^{196}\text{Rn}$ . Physical Review C, 2001, 63, .	2.9	40
27	Evidence for non-yrast states in $^{254}\text{No}$ . European Physical Journal A, 2005, 26, 227-232.	2.5	40
28	Studies of neutron-deficient mendelevium isotopes at SHIP. European Physical Journal A, 2010, 43, 35.	2.5	39
29	Alpha-gamma decay studies of $^{255}\text{No}$ . European Physical Journal A, 2006, 29, 165-173.	2.5	38
30	In-beam $\hat{I}^3$ -ray spectroscopy of $^{190}\text{Po}$ : First observation of a low-lying prolate band in Po isotopes. European Physical Journal A, 2003, 17, 167-171.	2.5	35
31	Investigation of nuclear collectivity in the neutron mid-shell nucleus $^{186}\text{Pb}$ . Physical Review C, 2007, 75, .	2.9	33
32	Alpha decay properties of $^{200}\text{Fr}$ and $^{202}\text{Fr}$ . Zeitschrift für Physik A, 1996, 354, 1-2.	0.9	30
33	Blurring the Boundaries: Decays of Multiparticle Isomers at the Proton Drip Line. Physical Review Letters, 2014, 112, 092501.	7.8	30
34	$\alpha$ -decay spectroscopy of light odd-odd Bi isotopes - I: $^{188,190}\text{Bi}$ nuclei. European Physical Journal A, 2003, 18, 39-54.	2.5	29
35	$\hat{I}\pm$ -decay studies of the francium isotopes $^{198}\text{Fr}$ and $^{199}\text{Fr}$ . Physical Review C, 2013, 87, .	2.9	29
36	Alpha decay studies of neutron-deficient radium isotopes. Zeitschrift für Physik A, 1996, 355, 157-164.	0.9	28

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37	Decay studies of neutron-deficient lawrencium isotopes. European Physical Journal A, 2008, 38, 219-226.	2.5	28
38	Spectroscopy of the proton drip-line nucleus $^{203}\text{Fr}$ . Physical Review C, 2013, 87, .	2.9	28
39	Identification of new mendelevium and einsteinium isotopes in bombardments of $^{209}\text{Bi}$ with $^{40}\text{Ar}$ . Zeitschrift für Physik A, 1996, 356, 11-12.	0.9	27
40	Structure of rotational bands in $^{253}\text{No}$ . European Physical Journal A, 2009, 42, 333.	2.5	27
41	Microsecond isomers in $^{187}\text{Tl}$ and $^{188}\text{Pb}$ . European Physical Journal A, 2000, 7, 41-44.	2.5	24
42	First observation of excited states in the neutron deficient $N=86$ isotones $^{159}\text{Ta}$ and $^{160}\text{W}$ . Physical Review C, 2001, 63, .	2.9	24
43	In-beam spectroscopy of $^{253}$ , $^{254}\text{No}$ . European Physical Journal A, 2002, 15, 205-208.	2.5	24
44	First observation of excited states in $^{197}\text{At}$ : the onset of deformation in neutron-deficient astatine nuclei. European Physical Journal A, 1999, 5, 43-47.	2.5	22
45	Low-lying structure of light radon isotopes. Physical Review C, 2002, 66, .	2.9	22
46	Alpha decay of the new isotope $^{174}\text{Hg}$ . Zeitschrift für Physik A, 1997, 358, 375-376.	0.9	21
47	First observation of gamma-rays from the proton emitter $^{171}\text{Au}$ . European Physical Journal A, 2003, 16, 489-494.	2.5	21
48	Shape isomerism and spectroscopy of $^{177}\text{Hg}$ . Physical Review C, 2003, 68, .	2.9	21
49	Evidence for oblate structure in $^{186}\text{Pb}$ . Physical Review C, 2005, 72, .	2.9	21
50	Recoil-decay tagging study of $^{205}\text{Fr}$ . Physical Review C, 2012, 85, .	2.9	21
51	Alpha decay of the new isotope $^{197}\text{Rn}$ . Zeitschrift für Physik A, 1996, 354, 9-10.	0.9	19
52	In-beam and decay spectroscopy of transfermium elements. European Physical Journal A, 2005, 25, 599-604.	2.5	19
53	Alpha-decay study of $^{218}\text{U}$ ; a search for the sub-shell closure at $Z = 92$ . European Physical Journal A, 2005, 25, 183-184.	2.5	19
54	In-beam studies of very neutron-deficient heavy nuclei. European Physical Journal A, 2002, 15, 189-193.	2.5	18

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55	Strongly coupled bands in the neutron-deficient nucleus $^{167}\text{Re}$ . <i>Physical Review C</i> , 2003, 68, .	2.9	18
56	$\hat{I}^{\pm}$ decay and recoil decay tagging studies of $^{183}\text{Tl}$ . <i>Physical Review C</i> , 2004, 70, .	2.9	18
57	Prolate structures in $^{189}\text{Po}$ and $^{185}\text{Pb}$ . <i>European Physical Journal A</i> , 2005, 24, 57-62.	2.5	18
58	Confirming band assignments in $^{167}\text{Ytterbium}$ with gamma-gamma-electron triple-coincidence spectroscopy. <i>European Physical Journal A</i> , 2019, 55, 1.	2.5	18
59	Identification of the $13/2^+$ isomer in $^{199}\text{At}$ . <i>European Physical Journal A</i> , 2000, 9, 307-308.	2.5	17
60	Decay studies of neutron-deficient odd-mass $\text{At}$ and $\text{Bi}$ isotopes. <i>European Physical Journal A</i> , 2005, 25, 181-182.	2.5	17
61	Prompt and delayed spectroscopy of $^{199}\text{At}$ . <i>Physical Review C</i> , 2010, 82, .	2.9	17
62	First identification of $\hat{I}^3$ -ray transitions in $^{107}\text{Te}$ . <i>Physical Review C</i> , 2004, 70, .	2.9	16
63	Shape coexistence in $^{183}\text{Tl}$ . <i>Physical Review C</i> , 2001, 64, .	2.9	15
64	Heavy Element Spectroscopy At JYFL. AIP Conference Proceedings, 2005, , .	0.4	15
65	Collectivity of $^{196}\text{Po}$ at $^{196}\text{Po}$ . <i>Physical Review C</i> , 2009, 79, .	2.9	15
66	First observation of excited states in $^{175}\text{Hg}$ . <i>Physical Review C</i> , 2009, 79, .	2.9	15
67	Detailed spectroscopy of $^{193}\text{Bi}$ . <i>Physical Review C</i> , 2015, 92, .	2.9	15
68	Spectroscopy of $^{201}\text{At}$ including the observation of a shears band and the $^{201}\text{At}$ . <i>Physical Review C</i> , 2013, 87, .	2.9	15
69	First observation of excited states in $^{172}\text{Hg}$ . <i>Physical Review C</i> , 2013, 87, .	2.9	14
70	Experimental study of $^{199}\text{At}$ . <i>Physical Review C</i> , 2009, 79, .	2.9	14
71	Alpha-decay characteristics of neutron-deficient $^{190}\text{Po}$ , $^{189}\text{Bi}$ and $^{186}\text{Pb}$ isotopes. <i>Zeitschrift für Physik A</i> , 1997, 358, 63-68.	0.9	13
72	New microsecond isomers in $^{189}$ , $^{190}\text{Bi}$ . <i>European Physical Journal A</i> , 2001, 10, 129-133.	2.5	13

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73	Recoil-fission tagging of the transfermium nucleus $^{252}\text{No}$ . European Physical Journal A, 2006, 28, 301-306.	2.5	13
74	In-beam gamma-ray spectroscopy of $^{190, 197}\text{Po}$ . European Physical Journal A, 2007, 34, 275-281.	2.5	13
75	Decay study of $^{246}\text{Fm}$ at SHIP. European Physical Journal A, 2011, 47, 1.	2.5	13
76	$\hat{I}^2$ -delayed fission of $^{186, 188}\text{Bi}$ isotopes. Physical Review C, 2013, 87, .	2.9	13
77	Nanosecond-Scale Proton Emission from Strongly Oblate-Deformed $^{149}\text{Lu}$ . Physical Review Letters, 2022, 128, 112501.	7.8	13
78	Alpha decay studies of neutron-deficient radium isotopes. Zeitschrift für Physik A, 1996, 355, 157-164.	0.9	12
79	Confirmation of the new isotope $^{178}\text{Pb}$ . Physical Review C, 2016, 94, .	2.9	12
80	RDDS lifetime measurement with JUROGAM + RITU. European Physical Journal A, 2005, 25, 441-442.	2.5	11
81	Decay of $^{111}\text{m}\text{Sb}$ — $^{112}\text{m}\mu\text{s}$ isomer in $^{136}\text{Pm}$ . Physical Review C, 2008, 78, .	2.9	11
82	Fine Structure in the alpha decays of $^{226}\text{U}$ and $^{230}\text{Pu}$ . European Physical Journal A, 1999, 6, 269-273.	2.5	10
83	Spectroscopy of $^{144}\text{Ho}$ using recoil-isomer tagging. Physical Review C, 2010, 81, .	2.9	9
84	In-beam spectroscopy at the RITU gas-filled recoil separator. European Physical Journal A, 2003, 20, 87-92.	2.5	8
85	In-beam gamma-ray spectroscopy of $^{254}\text{No}$ . European Physical Journal A, 2005, 25, 605-607.	2.5	8
86	Detailed spectroscopy of $^{195}\text{Bi}$ . Physical Review C, 2017, 96, .	2.9	8
87	Spectroscopy of the neutron-deficient nuclide $^{171}\text{Pt}$ . European Physical Journal A, 2003, 17, 1-5.	2.5	7
88	High- $K$ four-quasiparticle states in $^{138}\text{Gd}$ . Physical Review C, 2011, 83, .	2.9	7
89	First observation of superdeformed states in $^{191}\text{Bi}$ . European Physical Journal A, 2015, 51, 1.	2.5	7
90	Experimental study of isomeric intruder $12+$ states in $^{197, 203}\text{At}$ . Physical Review C, 2017, 95, .	2.9	7

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91	Lifetime measurement in $^{195}\text{Po}$ . European Physical Journal A, 2009, 39, 291-294.	2.5	5
92	Determination of $\hat{I}\pm$ -decay branching ratios for $^{178}, ^{179}\text{Hg}$ . European Physical Journal A, 2012, 48, 1.	2.5	5
93	In-beam study of $^{253}\text{No}$ using the SAGE spectrometer. European Physical Journal A, 2017, 53, 1.	2.5	5
94	Lifetime Measurements and Coulomb Excitation of Light Hg Nuclei. , 2009, , .		4
95	Lifetime measurement in the proton-unbound nucleus [ <sup>109</sup> l. , 2011, , .		3
96	Search for the terminating $27\hat{\alpha}^+$ state in $^{140}\text{Nd}$ . Physical Review C, 2015, 92, .	2.9	3
97	Decay spectroscopy of $^{179}\text{Pb}$ and evidence for a $9/2\hat{\alpha}^+$ intruder state in $^{179}\text{Tl}$ . Physical Review C, 2017, 96, .	2.9	3
98	Isomeric $13/2^+$ state in $^{201}\text{Fr}$ . Physical Review C, 2020, 101, .	2.9	3
99	Some Remarks on the Discovery of $^{244}\text{Md}$ . Physical Review Letters, 2021, 126, 182501.	7.8	3
100	First observation of high-K isomeric states in $^{249}\text{Md}$ and $^{251}\text{Md}$ . European Physical Journal A, 2021, 57, 1.	2.5	3
101	Probing the three shapes in $^{186}\text{Pb}$ using in-beam $\hat{I}^3$ -ray spectroscopy. European Physical Journal A, 2005, 25, 449-450.	2.5	2
102	Isomer Tagging with a Dual Multi-Wire Proportional Counter & a Differential Plunger.. AIP Conference Proceedings, 2008, , .	0.4	2
103	Study of excited states and observation of collective level structures in the odd-odd nucleus $^{194}\text{Bi}$ . European Physical Journal A, 2020, 56, 1.	2.5	2
104	High-spin states of $^{218}\text{Th}$ . Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 095103.	3.6	2
105	Probing shapes of very neutron deficient $Z=82$ nuclei using the recoil-decay tagging method. Acta Physica Hungarica A Heavy Ion Physics, 1997, 6, 169-175.	0.4	2
106	Decay studies of new isomeric states in $^{255}\text{No}$ . Physical Review C, 2022, 106, .	2.9	2
107	Experimental identification of intruder bandheads in odd-mass [ <sup>187</sup> 193]Pb. , 1999, , .		1
108	Feature Article: Developments in Spectroscopic Studies of Deformed Superheavy Nuclei. Nuclear Physics News, 2004, 14, 23-27.	0.4	1

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109	Probing the shapes of $^{186}\text{Pb}$ . AIP Conference Proceedings, 2006, , .	0.4	1
110	Spectroscopy of the neutron-deficient isobars [ $^{163}\text{Re}$ ] and [ $^{163}\text{W}$ ] using tagging techniques. , 2008, , .		1
111	Lifetime measurements of yrast states in $^{178}\text{Pt}$ using the charge plunger method with a recoil separator. European Physical Journal A, 2021, 57, 1.	2.5	1
112	SPECTROSCOPY OF THE ODD TRANSFERMIUM $^{251}\text{Md}$ AND $^{255}\text{Lr}$ NUCLEI USING $\hat{I}^3$ , ELECTRON AND $\hat{I}^\pm$ SPECTROSCOPY. , 2005, , .		1
113	Nuclear structure information from recoil decay tagging experiments. , 1998, , .		0
114	Fine structure in. , 1998, , .		0
115	Fine structure in the alpha-decay of the neutron-deficient. , 1998, , .		0
116	The onset of deformation in neutron-deficient At nuclei. , 1999, , .		0
117	Study of shape coexistence in the very neutron-deficient nucleus [ $^{176}\text{Hg}$ ]. , 1999, , .		0
118	Excited states in the heavy nuclide [ $^{254}\text{No}$ ]. , 1999, , .		0
119	Identification of excited states in [ $^{226}\text{U}$ ]: Evidence for octupole deformation. , 1999, , .		0
120	NUCLEAR STRUCTURE STUDIES OF EXOTIC NUCLEI USING AN ARRAY OF BAF<sub>2</sub> DETECTORS. , 2003, , .		0
121	Proton decay studies at the gas-filled separator RITU. AIP Conference Proceedings, 2003, , .	0.4	0
122	Advances Toward and Beyond the Proton Drip line with Recoil-Isomer Tagging. AIP Conference Proceedings, 2006, , .	0.4	0
123	In-beam spectroscopy of $^{254}\text{No}$ . AIP Conference Proceedings, 2006, , .	0.4	0
124	First Identification of $\hat{I}^3$ -rays in $^{106}\text{Te}$ Using Recoil Decay Tagging Technique. AIP Conference Proceedings, 2006, , .	0.4	0
125	Probe of Triple Shape Coexistence In Neutron Deficient Polonium Nuclei. AIP Conference Proceedings, 2006, , .	0.4	0
126	Evidence for enhanced collectivity in Te-I-Xe nuclei near the $N=Z=50$ double shell closure. AIP Conference Proceedings, 2007, , .	0.4	0



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127	Discovery of the proton emitting nucleus [ <sup>159</sup> Re. AIP Conference Proceedings, 2007, , .	0.4	0
128	Collectivity in neutron-deficient Pb and Po nuclei. European Physical Journal: Special Topics, 2007, 150, 121-122.	2.6	0
129	Probing collectivity in the vicinity of neutron deficient Pb nuclei. AIP Conference Proceedings, 2008, , .	0.4	0
130	Evidence for a strongly-coupled band in very neutron-deficient odd-mass nucleus [ <sup>185</sup> Pb. AIP Conference Proceedings, 2008, , .	0.4	0
131	Spectroscopy of Very Heavy Elements. AIP Conference Proceedings, 2008, , .	0.4	0
132	Confirmation Of Super Heavy Element Production In [ <sup>48</sup> Ca Induced Fusion Reactions A Handshake Of Physics And Chemistry For Element 112. AIP Conference Proceedings, 2008, , .	0.4	0
133	Decays of New Nuclides and Isomers Beyond the Proton Drip Lineâ€”The Influence of Neutron Configurations. , 2008, , .		0
134	Spectroscopy of odd-proton nuclei in the region of [ <sup>254</sup> No. AIP Conference Proceedings, 2008, , .	0.4	0
135	K Isomer in [ <sup>252</sup> No. , 2010, , .		0
136	A Recoil-Beta Tagging Study of Nâ€™=â€™Z nucleus [ <sup>66</sup> As. , 2011, , .		0
137	Probing the Collective Degrees of Freedom at the Proton Drip Line in the Extremely Neutron Deficient [ <sup>172</sup> Hg. , 2011, , .		0
138	The influence of quasineutron configurations on [ <sup>161</sup> Ta and nearby odd-A nuclei. , 2011, , .		0
139	Investigation of [ <sup>246</sup> Fm : in-beam spectroscopy at the limits. , 2011, , .		0
140	Nuclear Structure at the Extremes; In-beam $\hat{3}$ -ray Spectroscopy of [ <sup>180</sup> Pb. , 2011, , .		0
141	Revisiting the Level Scheme of the Proton Emitter <sup>151</sup> Lu. , 2015, , .		0
142	Evidence for octupole collectivity in $^{172}\text{Pt}$ . European Physical Journal A, 2020, 56, 1.	2.5	0
143	TOWARDS PROLATE DEFORMED GROUND STATE IN POLONIUM NUCLEI: IN-BEAM AND ALPHA-DECAY STUDIES OF <sup>190,191</sup> Po. , 2001, , .		0
144	THE DISCOVERY OF A PROLATE-OBLATE-SPHERICAL SHAPE TRIPLET OF SPIN $0^{+}$ STATES IN THE ATOMIC NUCLEUS <sup>186</sup> Pb. , 2001, , .		0

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145	IN-BEAM $\hat{1}^3$ -RAY SPECTROSCOPY ABOVE THE HIGH-SPIN ISOMERIC STATE IN $^{155}\text{Lu}$ . , 2013, , .		0
146	A NEW PLUNGER DEVICE FOR INVESTIGATING THE EFFECTS OF DEFORMATION ON PROTON EMISSION RATES VIA LIFETIME MEASUREMENTS. , 2013, , .		0
147	EVOLUTION OF NUCLEAR STRUCTURE IN NEUTRON-DEFICIENT Pb ISOTOPES. , 2013, , .		0
148	Spectroscopy of Very Heavy Elements at and Beyond the Limits. , 2015, , .		0
149	Investigation into the Effects of Deformation on Proton Emission Rates via Lifetime Measurements. , 2015, , .		0