Kalle Auranen

List of Publications by Year
in descending order

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72	741	623734	642732
papers	citations	14 h-index	23 g-index

74	74	74	771
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Î± Decay to Doubly Magic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Sn</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>100</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>.	7.8	76
2	Reaction rate for carbon burning in massive stars. Physical Review C, 2018, 97, .	2.9	69
3	Evidence for Rigid Triaxial Deformation in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ge</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>76</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> from a Model-Independent Analysis. Physical Review Letters, 2019, 123, 102501.	7.8	34
4	Spectroscopy of the proton drip-line nucleus<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>203</mml:mn></mml:msup></mml:math>Fr. Physical Review C, 2013, 87, .	2.9	28
5	Proton emission from an oblate nucleus 151Lu. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 79-84.	4.1	25
6	Deformation and mixing of coexisting shapes in neutron-deficient polonium isotopes. Physical Review C, 2015, 92, .	2.9	25
7	Shape Coexistence at Zero Spin in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ni</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>64</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math> Observed via Direct Mass Measurements. Physical Review Letters, 2020, 125, 102502.	7.8	24
8	Direct observation of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Ba</mml:mi><mml:mprescripts /><mml:none /><mml:mn>114</mml:mn></mml:mmultiscripts><mml:mo>â†’</mml:mo><mml:mmultiscripts><mml:mi>Xe</mml:mi><mml:mprescripts /><mml:none /><mml:mn>112</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> two-proton decay. Physical Review C, 2015, 91, .	2.9	22
9	Measurement of the first excited<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow /><mml:mn>21</mml:mn></mml:msup><mml:mo>+</mml:mo></mml:math>state in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">Te</mml:mi><mml:mprescripts /><mml:none /></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review C, 2015, 91, .	2.9	20
10	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
11	Reduced transition probabilities along the yrast line in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">W</mml:mi><mml:mprescripts /><mml:none /><mml:mn>166</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2017, 96, .	2.9	18
12	Proton decay of 108I and its significance for the termination of the astrophysical rp-process. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 792, 187-192.	4.1	18
13	Spectroscopy on the proton drip-line: Probing the structure dependence of isospin nonconserving interactions. Physical Review C, 2014, 90, .	2.9	17
14	Detailed spectroscopy of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Bi</mml:mi><mml:mprescripts /><mml:none /><mml:mn>193</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2015, 92, .	2.9	15
15	Spectroscopy of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">At</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>201</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>including the observation of a sidebands band and the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mstyle scriptlevel="0" displaystyle="false"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mstyle></mml:mrow><mml:mo>+</mml:mo></mml:msup></mml:math>in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">At</mml:mi><mml:mprescripts /><mml:none /><mml:mn>199</mml:mn></mml:mmultiscripts></mml:math>.	2.9	15
16	Experimental study of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mrow><mml:mstyle scriptlevel="0" displaystyle="false"><mml:mfrac><mml:mn>1</mml:mn><mml:mn>2</mml:mn></mml:mfrac></mml:mstyle></mml:mrow><mml:mo>+</mml:mo></mml:msup></mml:math>intruder states in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Au</mml:mi><mml:mprescripts /><mml:none /><mml:mn>195</mml:mn></mml:mmultiscripts></mml:math>.	2.9	14
17	Oblately deformed isomeric proton-emitting state in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Lu</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>151</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review C, 2015, 91, .	2.9	14
18	Stability of the heaviest elements: K isomer in No250. Physical Review C, 2020, 101, .	2.9	14

#	Article	IF	Citations
19	display="inline"><mml:msup><mml:mrow /><mml:mn>66</mml:mn></mml:msup></mml:math>Se up to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi>J</mml:mi><mml:mi>Ï€</mml:mi></mml:msup><mml:mo>=</mml:mo><mml:msup>	2.9	13
20	Nanosecond-Scale Proton Emission from Strongly Oblate-Deformed <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Lu</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>149</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>. Physical Review Letters, 2022, 128, 112501.	7.8	13
21	Confirmation of the new isotope Pb178. Physical Review C, 2016, 94, .	2.9	12
22	Exploring the boundaries of the nuclear landscape: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> -decay properties of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Pa</mml:mi><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>211</mml:mn></mml:mrow></mml:mmultiscripts></mml:math>. Physical Review C, 2020, 102,	2.9	12
23	xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">F</mml:mi></mml:mrow><mml:mprescripts /><mml:none	7.8	11
24	Experimental study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Ar</mml:mi><mml:mprescripts /><mml:none /><mml:mn>38</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mi>Î±</mml:mi></mml:mrow></mml:math> reaction cross sections relevant to the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ca</mml:mi><mml:mprescripts	2.9	11
25	Enhancing the sensitivity of recoil-beta tagging. Journal of Instrumentation, 2013, 8, P04025-P04025.	1.2	10
26	Solving the Puzzles of the Decay of the Heaviest Known Proton-Emitting Nucleus <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mprescripts /><mml:none /><mml:mrow><mml:mn>185</mml:mn></mml:mrow></mml:mmultiscripts></mml:mrow></mml:math>.	7.8	10
27	Isomer-tagged differential plunger measurements in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msubsup><mml:mrow /><mml:mn>54</mml:mn><mml:mn>113</mml:mn></mml:msubsup></mml:math>Xe. Physical Review C,	2.9	9
28	Spectroscopy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">Kr</mml:mi><mml:mprescripts /><mml:none /><mml:mn>70</mml:mn></mml:mmultiscripts></mml:math> and isospin symmetry in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>T</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn> shell nuclei. Physical Review C, 2016, 94, .	2.9	9
29	De-excitation of the strongly coupled band in Au177 and implications for core intruder configurations in the light Hg isotopes. Physical Review C, 2017, 95, .	2.9	9
30	Collective 2+ 1 excitations in 206Po and 208,210Rn. European Physical Journal A, 2016, 52, 1.	2.5	8
31	Spin-dependent evolution of collectivity in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Te</mml:mi><mml:mprescripts /><mml:none /><mml:mn>112</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2017, 96, .	2.9	8
32	Detailed spectroscopy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Bi</mml:mi><mml:mprescripts /><mml:none /><mml:mn>195</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2017, 96, .	2.9	8
33	Production cross section and decay study of Es243 and Md249. Physical Review C, 2019, 99, .	2.9	8
34	Experimental study of isomeric intruder 12+ states in At197,203. Physical Review C, 2017, 95, .	2.9	7
35	Prompt and delayed spectroscopy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>At</mml:mi><mml:mprescripts /><mml:none /><mml:mn>203</mml:mn></mml:mmultiscripts></mml:math> : Observation of a shears band and a <mml:math	2.9	7
36	Experimental study of the low-lying negative-parity states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Be</mml:mi><mml:mprescripts /><mml:none /><mml:mn>11</mml:mn></mml:mmultiscripts></mml:math> using the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">B</mml:mi><mml:mprescripts /><mml:none		

#	Article	IF	Citations
37	Population of a low-spin positive-parity band from high-spin intruder states in 177Au: The two-state mixing effect. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 806, 135488.	4.1	7
38	Recoil-decay tagging spectroscopy of74162W88. Physical Review C, 2015, 92, .	2.9	6
39	Coulomb excitation of re-accelerated208Rn and206Po beams. EPJ Web of Conferences, 2013, 63, 01009.	0.3	5
40	Identification of theJÏ€=1â^'state inRa218populated viaÎ±decay ofTh222. Physical Review C, 2016, 94, .	2.9	5
41	Lifetime measurements of excited states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">W</mml:mi><mml:mprescripts /><mml:none /><mml:mn>162</mml:mn></mml:mmultiscripts></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">W</mml:mi><mml:mprescripts /><mml:none /><mml:mn>164</mml:mn></mml:mm	2.9	5
42	In-beam study of 253No using the SAGE spectrometer. European Physical Journal A, 2017, 53, 1.	2.5	5
43	Fine structure in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î±</mml:mi></mml:math> decay of high-spin isomers in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Lu</mml:mi><mml:mprescripts /><mml:none /><mml:mn>155</mml:mn></mml:mmultiscripts></mml:math> and <mml:math	2.9	5
44	Search for Nova Presolar Grains: <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î²</mml:mi></mml:math> -Ray Spectroscopy of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi>Ar</mml:mi></mml:mrow><mml:mprescripts /><mml:none	2.9	5
45	Level structure of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>T</mml:mi><mml:mi>z</mml:mi></mml:msu nucleus <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ar</mml:mi><mml:mprescripts /><mml:none /><mml:mn>34</mml:mn></mml:mmultiscripts></mml:math> and its relevance for nucleosynthesis in ONe novae. Physical Review C, 2021, 103, .	2.9	5
46	Excited states in the proton-unbound nuclide<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Ta</mml:mi><mml:mprescripts /><mml:none /><mml:mn>158</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2016, 93, .	2.9	4
47	Competing single-particle and collective states in the low-energy structure of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mrow /><mml:mn>113</mml:mn></mml:msup></mml:math>I. Physical Review C, 2013, 88, .	2.9	3
48	First identification of rotational band structures inRe9175166. Physical Review C, 2015, 92, .	2.9	3
49	Decay spectroscopy of Pb97182179 and evidence for a 9/2â^' intruder state in Tl98181179. Physical Review C, 2017, 96, .	2.9	3
50	Experimental study of the effective nucleon-nucleon interaction using the F21(d,p)F22 reaction. Physical Review C, 2018, 98, .	2.9	3
51	Isomeric 13/2+ state in Fr201. Physical Review C, 2020, 101, .	2.9	3
52	Identification of sub- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î¼</mml:mi><mml:mi mathvariant="normal">s</mml:mi></mml:mrow></mml:math> isomeric states in the odd-odd nucleus <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Au</mml:mi><mml:mprescripts /><mml:none /><mml:mn>178</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2021, 103, .	2.9	3
53	First observation of high-K isomeric states in ^{249}Md and ^{251}Md. European Physical Journal A, 2021, 57, 1.	2.5	3
54			

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55	Spectroscopy ofHf161from low to high spin. Physical Review C, 2014, 90, .	2.9	2
56	Lifetime measurements in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Re</mml:mi><mml:mprescripts /><mml:none /><mml:mn>166</mml:mn></mml:mmultiscripts></mml:math>: Collective versus magnetic rotation. Physical Review C, 2016, 93, .	2.9	2
57	Determination of absolute internal conversion coefficients using the SAGE spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 812, 24-32.	1.6	2
58	How well do we understand the reaction rate of C burning?. EPJ Web of Conferences, 2017, 163, 00011.	0.3	2
59	Decay of a 19â^' isomeric state in Lu156. Physical Review C, 2018, 98, .	2.9	2
60	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
61	Study of excited states and observation of collective level structures in the oddâ€“odd nucleus ^{194}Bi. European Physical Journal A, 2020, 56, 1.	2.5	2
62	High-spin states of ²¹⁸Th. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 095103.	3.6	2
63	First direct measurement of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi mathvariant="normal">N</mml:mi><mml:mprescripts /><mml:none /><mml:mn>13</mml:mn></mml:mmultiscripts><mml:mo>(</mml:mo><mml:mi>Î±</mml:mi><mml:mo>,</mml:mo><mml:mi>p</mml:mi><mml:mmultiscripts><mml:mi mathvariant="normal">O</mml:mi><mml:mprescripts /><mml:none /><mml:mn>16</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> reaction relevant for core-c	2.9	2
64	Cross section measurements in the 12C+12C system. EPJ Web of Conferences, 2017, 165, 01015.	0.3	1
65	In-beam spectroscopic study of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Cf</mml:mi><mml:mprescripts /><mml:none /><mml:mn>244</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2018, 97, .	2.9	1
66	Isomeric <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mfrac><mml:mn>13</mml:mn><mml:mn>2</mml:mn></mml:mn> <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mo>(</mml:mo><mml:mi>Î½</mml:mi><mml:msubsup><mml:mn> stat. Physical Review C, 2021, 103, .	2.9	1
67	Spectroscopy of low-lying states in neutron-deficient astatine and francium nuclei. AIP Conference Proceedings, 2015, , .	0.4	0
68	Fine structure in the Î± decay of Lu156 and Ta158. Physical Review C, 2019, 99, .	2.9	0
69	Single-particle and collective excitations in the transitional nucleus 166Os. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 125101.	3.6	0
70	Investigation into the Effects of Deformation on Proton Emission Rates via Lifetime Measurements. , 2015, , .		0
71	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Î½</mml:mi><mml:msub><mml:mi>I</mml:mi><mml:mi structures in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Sm</mml:mi><mml:mprescripts /><mml:none /><mml:mn>155</mml:mn></mml:mmultiscripts></mml:math> and <mml:math	2.9	0
72	Identification of excited states in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi>Te</mml:mi><mml:mn>55</mml:mn><mml:mn><mml:none /><mml:mprescripts /><mml:mn>52</mml:mn><mml:mn>107</mml:mn></mml:mmultiscripts></mml:math>. Physical Review C, 2021, 104, .	2.9	0