

# Kalle Auranen

## List of Publications by Year in descending order

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Version: 2024-02-01

72  
papers

741  
citations

623734

14  
h-index

642732

23  
g-index

74  
all docs

74  
docs citations

74  
times ranked

771  
citing authors

#	ARTICLE	IF	CITATIONS
1	structures in $\langle \text{math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:mi}>I/2\langle \text{mml:mi}>\langle \text{mml:msub}>\langle \text{mml:mi}>I\langle \text{mml:mi}>\langle \text{mml:mrow}>\langle \text{mml:mn}>155\langle \text{mml:mn}>\langle \text{mml:multiscripts}>\langle \text{mml:math}>\text{and} \langle \text{math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:mi}>Lu\langle \text{mml:mi}>\langle \text{mml:mrow}>\langle \text{mml:mprescripts}>\langle \text{mml:mn}>149\langle \text{mml:mn}>\langle \text{mml:multiscripts}>\langle \text{mml:mrow}>\langle \text{mml:math}>$	7.8	13
2	Physical Review Letters, 2022, 128, 112501.	2.9	1
3	Level structure of the $\langle \text{math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:msub}>\langle \text{mml:mi}>T\langle \text{mml:mi}>\langle \text{mml:mi}>Z\langle \text{mml:mi}>\langle \text{mml:mrow}>\langle \text{mml:mn}>13\langle \text{mml:mn}>\langle \text{mml:multiscripts}>\langle \text{mml:mo}>\langle \text{mml:mi}>\pm\langle \text{mml:mi}>\langle \text{mml:mo}>\langle \text{mml:mrow}>\langle \text{mml:mi}>p\langle \text{mml:mi}>\langle \text{mml:mrow}>\langle \text{mml:mn}>13\langle \text{mml:mn}>\langle \text{mml:multiscripts}>\langle \text{mml:math}>$	2.9	3
4	nucleus $\langle \text{math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:mi}>Ar\langle \text{mml:mi}>\langle \text{mml:mprescripts}>\langle \text{mml:mn}>34\langle \text{mml:mn}>\langle \text{mml:multiscripts}>\langle \text{mml:mrow}>\langle \text{mml:mi}>\hat{I}^4\langle \text{mml:mi}>\langle \text{mml:mi}>s\langle \text{mml:mi}>\langle \text{mml:mrow}>\langle \text{mml:math}>$ isomeric states in the odd-odd nucleus	2.9	3
5	Isomeric $\langle \text{math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:msup}>\langle \text{mml:mfrac}>\langle \text{mml:mn}>13\langle \text{mml:mn}>\langle \text{mml:mn}>2\langle \text{mml:mn}>\langle \text{mml:mrow}>\langle \text{mml:math}>$	2.9	1
6	stat. Physical Review C, 2021, 103, .	3.6	0
7	Single-particle and collective excitations in the transitional nucleus $^{166}\text{Os}$ . Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 125101.	7.8	10
8	Solving the Puzzles of the Decay of the Heaviest Known Proton-Emitting Nucleus $\langle \text{math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:mi}>Bi\langle \text{mml:mi}>\langle \text{mml:mrow}>\langle \text{mml:mprescripts}>\langle \text{mml:mn}>185\langle \text{mml:mn}>\langle \text{mml:mrow}>\langle \text{mml:math}>$	2.5	3
9	Physical Review Letters, 2021, 127, 202501.	2.9	0
10	First observation of high-K isomeric states in $^{249}\text{Md}$ and $^{251}\text{Md}$ . European Physical Journal A, 2021, 57, 1.	2.9	0
11	Identification of excited states in $\langle \text{math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:mi}>Te\langle \text{mml:mi}>\langle \text{mml:mn}>55\langle \text{mml:mn}>\langle \text{mml:mrow}>\langle \text{mml:mprescripts}>\langle \text{mml:mn}>52\langle \text{mml:mn}>\langle \text{mml:mn}>107\langle \text{mml:mn}>\langle \text{mml:multiscripts}>\langle \text{mml:mrow}>\langle \text{mml:math}>$ . Physical Review C, 2021, 104, .	2.9	14
12	Stability of the heaviest elements: K isomer in $\text{No}250$ . Physical Review C, 2020, 101, .	7.8	24
13	Shape Coexistence at Zero Spin in $\langle \text{math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:mi}>Ni\langle \text{mml:mi}>\langle \text{mml:mrow}>\langle \text{mml:mprescripts}>\langle \text{mml:mn}>64\langle \text{mml:mn}>\langle \text{mml:mrow}>\langle \text{mml:math}>$	2.9	12
14	Driven by the Monopole Tensor Interaction. Physical Review Letters, 2020, 125, 102502.	2.9	12
15	of $\langle \text{math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:mi}>Pa\langle \text{mml:mi}>\langle \text{mml:mprescripts}>\langle \text{mml:mn}>211\langle \text{mml:mn}>\langle \text{mml:multiscripts}>\langle \text{mml:mrow}>\langle \text{mml:math}>$ . Physical Review C, 2020, 102, .	2.5	2
16	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.	4.1	7
17	Population of a low-spin positive-parity band from high-spin intruder states in $^{177}\text{Au}$ : The two-state mixing effect. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 806, 135488.	2.9	3
18	Isomeric $13/2^+$ state in $\text{Fr}201$ . Physical Review C, 2020, 101, .	7.8	5
19	Search for Nova Presolar Grains: $\langle \text{math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:mi}>I^2\langle \text{mml:mi}>\langle \text{mml:mrow}>\langle \text{mml:math}>$ -Ray Spectroscopy of $\langle \text{math} \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle \text{mml:mrow}>\langle \text{mml:mi}>Ar\langle \text{mml:mi}>\langle \text{mml:mrow}>\langle \text{mml:mprescripts}>\langle \text{mml:mn}>34\langle \text{mml:mn}>\langle \text{mml:mrow}>\langle \text{mml:math}>$	3.6	2
20	High-spin states of $^{218}\text{Th}$ . Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 095103.		



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37	Reduced transition probabilities along the yrast line in $^{166}\text{W}$ . Physical Review C, 2017, 96, .	2.9	18
38	Spin-dependent evolution of collectivity in $^{112}\text{Te}$ . Physical Review C, 2017, 96, .	2.9	8
39	Experimental study of isomeric intruder $12^+$ states in $^{203}\text{At}$ . Physical Review C, 2017, 95, .	2.9	7
40	Lifetime measurements of excited states in $^{162}\text{W}$ and $^{162}\text{Yb}$ . Physical Review C, 2017, 96, .	2.9	5
41	Detailed spectroscopy of $^{195}\text{Bi}$ . Physical Review C, 2017, 96, .	2.9	8
42	In-beam study of $^{253}\text{No}$ using the SAGE spectrometer. European Physical Journal A, 2017, 53, 1.	2.5	5
43	Decay spectroscopy of $^{182}\text{Pb}$ and evidence for a $9/2^+$ intruder state in $^{179}\text{Tl}$ . Physical Review C, 2017, 96, .	2.9	3
44	How well do we understand the reaction rate of C burning?. EPJ Web of Conferences, 2017, 163, 00011.	0.3	2
45	Cross section measurements in the $^{12}\text{C}+^{12}\text{C}$ system. EPJ Web of Conferences, 2017, 165, 01015.	0.3	1
46	Collective $2^+$ $1^-$ excitations in $^{206}\text{Po}$ and $^{210}\text{Rn}$ . European Physical Journal A, 2016, 52, 1.	2.5	8
47	Direct observation of the $^{114}\text{Ba}$ $110^+$ state. Physical Review C, 2016, 93, .	2.9	22
48	Excited states in the proton-unbound nuclide $^{158}\text{Ta}$ . Physical Review C, 2016, 93, .	2.9	4
49	Lifetime measurements in $^{166}\text{Re}$ : Collective versus magnetic spectroscopy of $^{166}\text{Re}$ . Physical Review C, 2016, 93, .	2.9	2
50	$^{70}\text{Kr}$ and isospin symmetry in the $^{70}\text{Kr}$ shell nuclei. Physical Review C, 2016, 94, .	2.9	9
51	Confirmation of the new isotope $^{178}\text{Pb}$ . Physical Review C, 2016, 94, .	2.9	12
52	Identification of the $1^+$ state in $^{218}\text{Ra}$ populated via $1^+$ decay of $^{222}\text{Th}$ . Physical Review C, 2016, 94, .	2.9	5
53	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
54	First identification of rotational band structures in $^{166}\text{Re}$ . Physical Review C, 2015, 92, .	2.9	3

#	ARTICLE	IF	CITATIONS
55	Recoil-decay tagging spectroscopy of $^{74}\text{Br}$ . Physical Review C, 2015, 92, .	2.9	6
56	Lifetime measurement of the first excited $^{112}\text{Br}$ in $^{112}\text{Br}$ . Physical Review C, 2015, 91, .	2.9	20
57	Detailed spectroscopy of $^{193}\text{Bi}$ . Physical Review C, 2015, 92, .	2.9	15
58	Deformation and mixing of coexisting shapes in neutron-deficient polonium isotopes. Physical Review C, 2015, 92, .	2.9	25
59	Spectroscopy of low-lying states in neutron-deficient astatine and francium nuclei. AIP Conference Proceedings, 2015, . .	0.4	0
60	Oblately deformed isomeric proton-emitting state in $^{151}\text{Lu}$ . Physical Review C, 2015, 91, .	2.9	14
61	$^{201}\text{At}$ including the observation of a shears band and the $^{201}\text{At}$ . Physical Review C, 2015, 91, .	2.9	15
62	Investigation into the Effects of Deformation on Proton Emission Rates via Lifetime Measurements, 2015, . .		0
63	Spectroscopy of $^{161}\text{Hf}$ from low to high spin. Physical Review C, 2014, 90, .	2.9	2
64	Experimental study of $^{199}\text{At}$ in $^{199}\text{At}$ . Physical Review C, 2014, 90, .	2.9	14
65	Spectroscopy on the proton drip-line: Probing the structure dependence of isospin nonconserving interactions. Physical Review C, 2014, 90, .	2.9	17
66	Proton emission from an oblate nucleus $^{151}\text{Lu}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 79-84.	4.1	25
67	Isomer-tagged differential-plunger measurements in $^{54}\text{Xe}$ . Physical Review C, 2013, 87, .	2.9	9
68	Spectroscopy of the proton drip-line nucleus $^{203}\text{Fr}$ . Physical Review C, 2013, 87, .	2.9	28
69	Isospin-breaking effect in the $^{66}\text{Se}$ . Physical Review C, 2013, 88, .	2.9	13
70	Competing single-particle and collective states in the low-energy structure of $^{113}\text{I}$ . Physical Review C, 2013, 88, .	2.9	3
71	Enhancing the sensitivity of recoil-beta tagging. Journal of Instrumentation, 2013, 8, P04025-P04025.	1.2	10
72	Coulomb excitation of re-accelerated $^{208}\text{Rn}$ and $^{206}\text{Po}$ beams. EPJ Web of Conferences, 2013, 63, 01009.	0.3	5