

Ann-Cecilie Larsen

List of Publications by Year in descending order

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Version: 2024-02-01

150
papers

3,184
citations

117571

34
h-index

182361

51
g-index

158
all docs

158
docs citations

158
times ranked

1246
citing authors

#	ARTICLE	IF	CITATIONS
1	Radiative strength functions in Mo93 ⁺ 98. Physical Review C, 2005, 71, .	1.1	119
2	Analysis of possible systematic errors in the Oslo method. Physical Review C, 2011, 83, . Novel technique for Constraining $\langle \sigma \rangle$ Process ($\langle \sigma \rangle$)	1.1	118
3		2.9	111
4	R Low-Energy Enhancement of Magnetic Dipole Radiation. Physical Review Letters, 2013, 111, 232504. Shape Coexistence in the Neutron-Deficient Even-Even	2.9	96
5	Impact of a low-energy enhancement in the $\langle \sigma \rangle$ ray strength function on the neutron-capture cross section. Physical Review C, 2014, 112, 162701. Evidence for Shape Coexistence in Neutron-Rich Strontium Isotopes at	2.9	96
6	Photonuclear cross sections for Mo isotopes: A step toward a unified understanding of	1.1	94
7		2.9	79
8		1.1	76
9	Large Low-Energy $\langle \sigma \rangle$ Strength for $\langle \sigma \rangle$	2.9	66
10	Evolution of the pygmy dipole resonance in Sn isotopes. Physical Review C, 2011, 83, .	2.9	65
11	Observation of Large Scissors Resonance Strength in Actinides. Physical Review Letters, 2012, 109, 162503.	1.1	64
12	Scissors resonance in the quasicontinuum of Th, Pa, and U isotopes. Physical Review C, 2014, 89, .	1.1	62
13	Nuclear level densities and $\langle \sigma \rangle$ ray strength functions in $\langle \sigma \rangle$	1.1	57
14	Physical Review C, 2007, 75, .	2.9	55
15	Constant-temperature level densities in the quasicontinuum of Th and U isotopes. Physical Review C, 2013, 88, .	1.1	54
16	Experimental Neutron Capture Rate Constraint Far from Stability. Physical Review Letters, 2016, 116, 242502.	2.9	53
17	Measurement of the Sign of the Spectroscopic Quadrupole Moment for the 21^+ State in Se70: No Evidence for Oblate Shape. Physical Review Letters, 2007, 98, 072501.	2.9	52

#	ARTICLE	IF	CITATIONS
19	Level densities and \hat{I}^3 -ray strength functions in Sn isotopes. Physical Review C, 2010, 81, .	1.1	50
20	Transitional \hat{I}^3 strength in Cd isotopes. Physical Review C, 2013, 87, .	1.1	48
21	Novel techniques for constraining neutron-capture rates relevant for r-process heavy-element nucleosynthesis. Progress in Particle and Nuclear Physics, 2019, 107, 69-108.	5.6	47
22	Microcanonical entropies and radiative strength functions of $^{50,51}\text{V}$. Physical Review C, 2006, 73, .	1.1	46
23	Spectroscopy of ^{253}No and its daughters. Nuclear Physics A, 2011, 852, 15-35.	0.6	45
24	First observation of low-energy \hat{I}^3 -ray enhancement in the rare-earth region. Physical Review C, 2016, 93, .	1.1	45
25	\hat{I}^3 -strength functions in ^{60}Ni from two-step cascades following proton capture. Physical Review C, 2010, 81, .	1.1	41
26	Verification of detailed balance for \hat{I}^3 absorption and emission in Dy isotopes. Physical Review C, 2018, 98, .	1.1	40
27	Isomeric states in ^{253}No . European Physical Journal A, 2007, 32, 245-250.	1.0	38
28	Experimental level densities of atomic nuclei. European Physical Journal A, 2015, 51, 1.	1.0	38
29	Thermodynamic properties of $^{56,57}\text{Fe}$. Physical Review C, 2008, 78, .	1.1	37
30	Nuclear excitations at constant temperature. Physical Review C, 2009, 79, .	1.1	37
31	Galactic production of ^{138}La : Impact of $^{138,139}\text{La}$ statistical properties. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 268-272.	1.5	37
32	Level density and \hat{I}^3 -ray strength function in the odd-odd ^{238}Np nucleus. Physical Review C, 2009, 79, .	1.1	36
33	\hat{I}^3 -strength functions of ^{238}U reaction via the simultaneous measurement of d -decay and fission. Physical Review C, 2009, 79, .	1.1	35
34	Level density and \hat{I}^3 -decay properties of closed shell Pb nuclei. Physical Review C, 2009, 79, .	1.1	34
35	Strong Neutron \hat{I}^3 Competition above the Neutron Threshold in the Decay of ^{60}Co . Physical Review C, 2016, 94, .	1.1	34
36	Low-energy Coulomb excitation of $^{96,98}\text{Sr}$ beams. Physical Review C, 2016, 94, .	1.1	33

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37	High-K, $t_{1/2} = 1.4(1)$ ms, isomeric state in $\text{Ln}255$. Physical Review C, 2008, 78, .	1.1	32
38	Evidence for the pair-breaking process in Sn . Physical Review C, 2009, 79, .	1.1	31
39	Functions of Ge \hat{I}^3 -ray strength. Physical Review C, 2009, 79, .	1.1	31
40	Breaking of nucleon Cooper pairs at finite temperature in $\text{Mo}93$. Physical Review C, 2006, 74, .	1.1	30
41	Level density and thermodynamic properties of dysprosium isotopes. Physical Review C, 2012, 85, .	1.1	30
42	Radiative strength functions in Dy \hat{I}^3 -ray spectroscopy. Physical Review C, 2010, 81, .	1.1	29
43	Examination of the low-energy enhancement of the Hg \hat{I}^3 -ray strength function of Fe . Physical Review C, 2018, 97, .	1.1	29
44	Strength of Ni \hat{I}^3 -ray strength and its robustness within the shell model. Physical Review C, 2018, 97, .	1.1	28
45	Detailed spectroscopy of $\text{Fm}249$. Physical Review C, 2006, 74, .	1.1	26
46	Consolidating the concept of low-energy magnetic dipole decay radiation. Physical Review C, 2018, 98, .	1.1	26
47	Radiative Width of the Hoyle State from \hat{I}^3 -Ray Spectroscopy. Physical Review Letters, 2020, 125, 182701.	2.9	26
48	Extraction of thermal and electromagnetic properties in Y and Ti . Physical Review C, 2009, 80, .	1.1	25
49	Enhanced Radiative Strength in the Quasicontinuum of Sn . Physical Review Letters, 2009, 102, 162504.	2.9	24
50	Nuclear level density and \hat{I}^3 -ray strength function of ^{43}Sc . Physical Review C, 2012, 85, .	1.1	24
51	Experimental First Order Pairing Phase Transition in Atomic Nuclei. Journal of Physics: Conference Series, 2015, 580, 012048.	0.3	22
52	Fermi's golden rule applied to the \hat{I}^3 decay in the quasicontinuum of $\text{Ti}46$. Physical Review C, 2011, 83, .	1.1	21

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55	<p>Statistical properties of $\langle mml:math \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle mml:mmultiscripts \langle mml:mtext \rangle \text{Pu} \langle /mml:mtext \rangle \langle mml:mprescripts \rangle \langle /mml:mprescripts \rangle \langle mml:none \rangle \langle /mml:none \rangle \langle mml:mn \rangle 243 \langle /mml:mn \rangle \langle /mml:mmultiscripts \rangle \langle /mml:math \rangle$, and $\langle mml:math \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle mml:mmultiscripts \langle mml:mtext \rangle \text{Pu} \langle /mml:mtext \rangle \langle mml:mprescripts \rangle^{21} \langle /mml:mprescripts \rangle \langle mml:none \rangle \langle /mml:none \rangle \langle mml:mn \rangle 242 \langle /mml:mn \rangle \langle /mml:mmultiscripts \rangle \langle mml:mo \rangle (\langle /mml:mo \rangle \langle mml:mi \rangle n \langle /mml:mi \rangle \langle mml:mo \rangle , \langle /mml:mo \rangle \langle mml:mi \rangle ^{13} \langle /mml:mi \rangle \langle mml:mo \rangle) \langle /mml:math \rangle$</p>	1.1	21
56	<p>Low-energy enhancement and fluctuations of β^3-ray strength functions in $^{56,57}\text{Fe}$: test of the Brink-$\hat{\epsilon}$ "Axel" hypothesis. <i>Journal of Physics G: Nuclear and Particle Physics</i>, 2017, 44, 064005.</p>	1.4	21
57	<p>decay of $\langle mml:math \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle mml:mi \rangle ^{13} \langle /mml:mi \rangle \langle /mml:math \rangle$ $\langle mml:math \text{xmlns:mml}="http://www.w3.org/1998/Math/MathML">\langle mml:mmultiscripts \langle mml:mi \text{mathvariant}="bold" \rangle \text{Zr} \langle /mml:mi \rangle \langle mml:mprescripts \rangle \langle /mml:mprescripts \rangle \langle mml:none \rangle \langle /mml:none \rangle \langle mml:mrow \rangle \langle mml:mn \rangle 91 \langle /mml:mn \rangle \langle mml:mo \rangle , \langle /mml:mo \rangle \langle mml:mn \rangle 92 \langle /mml:mn \rangle \langle /mml:mrow \rangle \langle /mml:mmultiscripts \rangle \langle /mml:math \rangle$</p>		

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73	Shell-gap-reduced level densities in ^{89}Y . <i>Physical Review C</i> , 2014, 89, .	1.1	13
74	Electromagnetic properties of low-lying states in neutron-deficient Hg isotopes: Coulomb excitation of ^{182}Hg , ^{184}Hg , ^{186}Hg and ^{188}Hg . <i>European Physical Journal A</i> , 2019, 55, 1.	1.0	13
75	First application of the Oslo method in inverse kinematics. <i>European Physical Journal A</i> , 2020, 56, 1.	1.0	13
76	Nature of low-lying electric dipole resonance excitations in ^{74}Ge . <i>Physical Review C</i> , 2016, 94, .	1.1	12
77	Structure of low-lying states in ^{140}Sm studied by Coulomb excitation. <i>Physical Review C</i> , 2016, 93, .	1.1	12
78	Test of the generalized Brink-Axel hypothesis in ^{64}Ni and ^{65}Ni . <i>Physical Review C</i> , 2018, 98, .	1.1	12
79	Level densities of ^{44}Sc and ^{47}Ti from different experimental techniques. <i>Physical Review C</i> , 2008, 77, .	1.1	11
80	A new fission-fragment detector to complement the CACTUS-SiRi setup at the Oslo Cyclotron Laboratory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 738, 6-12.	0.7	11
81	\hat{I}^3 decay from the quasicontinuum of ^{197}Au and ^{198}Au . <i>Physical Review C</i> , 2015, 91, .	1.1	11
82	Lifetime measurement for the 21^+ state in ^{140}Sm and the onset of collectivity in neutron-deficient Sm isotopes. <i>Physical Review C</i> , 2015, 92, .	1.1	10
83	Investigating the \hat{I}^3 decay of ^{65}Ni from particle- \hat{I}^3 coincidence data. <i>Physical Review C</i> , 2017, 96, .	1.1	10
84	Energy dependence of the prompt \hat{I}^3 -ray emission from the (d,p)-induced fission of ^{234}U and ^{240}Pu . <i>Physical Review C</i> , 2017, 96, .	1.1	10
85	Restricted spin-range correction in the Oslo method: The example of nuclear level density and \hat{I}^3 -ray intensities and strength functions from discrete two-step \hat{I}^3 -ray cascades in ^{191}Os . <i>Physical Review C</i> , 2019, 99, .	1.1	10
86	Restricted spin-range correction in the Oslo method: The example of nuclear level density and \hat{I}^3 -ray strength function from ^{239}Pu . <i>Physical Review C</i> , 2019, 99, .	1.1	9
87	Reaction rate relevant to the \hat{I}^3 -ray strength function for thallium isotopes relevant to the \hat{I}^3 -ray process. <i>Physical Review C</i> , 2019, 99, .	1.1	9
88	\hat{I}^3 -ray strength function for thallium isotopes relevant to the \hat{I}^3 -ray process. <i>Physical Review C</i> , 2019, 99, .	1.1	9
89	A new software implementation of the Oslo method with rigorous statistical uncertainty propagation. <i>Computer Physics Communications</i> , 2021, 262, 107795.	3.0	9
90	Nuclear level densities and \hat{I}^3 -ray strength functions of ^{180}Tl , ^{181}Tl , ^{182}Tl . <i>Physical Review C</i> , 2019, 99, .	1.1	8

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91	Strong enhancement of level densities in the crossover from spherical to deformed neodymium isotopes. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 816, 136206.	1.5	8
92	Study of the soft dipole modes in ^{140}Ce via inelastic scattering of ^{17}O . <i>Physica Scripta</i> , 2014, 89, 054016.	1.2	7
93	Observation of Large Orbital Scissors Strength in Actinides. <i>Acta Physica Polonica B</i> , 2013, 44, 567.	0.3	6
94	Experimental constraints on the $\langle \text{mml:math} \rangle$ reaction rate. <i>Physical Review C</i> , 2019, 99, .	1.1	6
95	$\hat{\Gamma}^3$ -ray decay from neutron-bound and unbound states in $\text{Mo}95$ and a novel technique for spin determination. <i>Physical Review C</i> , 2016, 93, .	1.1	5
96	Benchmarking the extraction of statistical neutron capture cross sections on short-lived nuclei for applications using the $\hat{\Gamma}^2$ -Oslo method. <i>Physical Review C</i> , 2019, 100, .	1.1	5
97	decay strength distributions from total absorption spectroscopy. <i>Physical Review C</i> , 2019, 100, .	1.1	5
98	Study of the high-lying, high-spin $\hat{\Gamma}^{\pm}$ $+28\text{Si}$ resonance structure in ^{32}S . <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2011, 38, 035107.	1.4	4
99	Onset of collectivity in neutron-rich Sr and Kr isotopes: Prompt spectroscopy after Coulomb excitation at REX-ISOLDE, CERN. <i>EPJ Web of Conferences</i> , 2013, 62, 01003.	0.1	4
100	Upbend and M1 Scissors Mode in Neutron-rich Nuclei — Consequences for r-process (n,γ) Reaction Rates. <i>Acta Physica Polonica B</i> , 2015, 46, 509.	0.3	4
101	Title is missing!. <i>Acta Physica Polonica B</i> , 2011, 42, 605.	0.3	3
102	Neutron-induced cross sections of actinides via the surrogate-reaction method. <i>EPJ Web of Conferences</i> , 2013, 62, 08002.	0.1	3
103	Observation of low-lying resonances in the quasicontinuum of $^{195,196}\text{Pt}$ and enhanced astrophysical reaction rates. <i>EPJ Web of Conferences</i> , 2015, 93, 01039.	0.1	3
104	Spectroscopy of Low-lying States in ^{140}Sm . <i>Acta Physica Polonica B</i> , 2015, 46, 607.	0.3	3
105	Photoneutron Cross-section Measurements for ^{165}Ho by the Direct Neutron-Multiplicity Sorting at NewSUBARU. <i>Acta Physica Polonica B</i> , 2019, 50, 487.	0.3	3
106	Nuclear thermodynamics below particle threshold. <i>AIP Conference Proceedings</i> , 2005, , .	0.3	2
107	Properties of warm nuclei in the quasi-continuum. <i>EPJ Web of Conferences</i> , 2010, 2, 04001.	0.1	2
108	Gamma-ray strength functions and their relation to astrophysics. , 2011, , .		2

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109	um and pre-equilibrium processes in the Mn^n		

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127	Entropy In Hot Nuclei. AIP Conference Proceedings, 2005, , .	0.3	0
128	Single Particle Entropy in Heated Nuclei. AIP Conference Proceedings, 2006, , .	0.3	0
129	Nuclear properties in the vicinity of closed shells. AIP Conference Proceedings, 2006, , .	0.3	0
130	Gamma and electron spectroscopy of heavy nuclei at FLNR JINR. AIP Conference Proceedings, 2007, , .	0.3	0
131	The Oslo Method and Its Application to Lead Isotopes. AIP Conference Proceedings, 2008, , .	0.3	0
132	Spectroscopy of heavy elements at Dubna. AIP Conference Proceedings, 2008, , .	0.3	0
133	Level Densities and β -Strength Functions in Light Sc and Ti Isotopes. EPJ Web of Conferences, 2010, 2, 03003.	0.1	0
134	Soft structures of β -ray strength functions studied with the Oslo method. EPJ Web of Conferences, 2010, 2, 03001.	0.1	0
135	Spectroscopy of transfermium nuclei using the GABRIELA set up at the focal plane of the VASSILISSA recoil separator. , 2010, , .		0
136	Do light nuclei display a universal β -ray strength function?. EPJ Web of Conferences, 2012, 21, 04004.	0.1	0
137	Neutron-induced cross sections of actinides via the surrogate-reaction method. EPJ Web of Conferences, 2013, 42, 01003.	0.1	0
138	The statistical properties of $^{111,112,113}\text{Sn}$ studied with the Oslo method. EPJ Web of Conferences, 2015, 93, 04004.	0.1	0
139	Statistical nuclear properties and synthesis of ^{138}La . EPJ Web of Conferences, 2015, 93, 04005.	0.1	0
140	Low-energy enhancement of M1 strength. Journal of Physics: Conference Series, 2015, 580, 012020.	0.3	0
141	First simultaneous measurement of fission and gamma probabilities of ^{237}U and ^{239}Np via surrogate reactions. EPJ Web of Conferences, 2016, 122, 12004.	0.1	0
142	Resonances in odd-odd ^{182}Ta . EPJ Web of Conferences, 2017, 146, 05012.	0.1	0
143	Statistical gamma-ray decay studies at iThemba LABS. EPJ Web of Conferences, 2017, 146, 05006.	0.1	0
144	Gamma-widths, lifetimes and fluctuations in the nuclear quasi-continuum. EPJ Web of Conferences, 2018, 178, 06001.	0.1	0

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145	<p>Publisher's Note: Statistical properties of $\langle mml:math \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle mml:mmultiscripts \rangle \langle mml:mi \rangle \text{Pu} \langle /mml:mi \rangle \langle mml:mprescripts \rangle \langle /mml:none \rangle \langle mml:mn \rangle 243 \langle /mml:mn \rangle \langle /mml:mmultiscripts \rangle \langle /mml:math \rangle$, and $\langle mml:math \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle mml:mrow \rangle \langle mml:mmultiscripts \rangle \langle mml:mi \rangle \text{Pu} \langle /mml:mi \rangle \langle mml:mprescripts \rangle \langle /mml:none \rangle \langle mml:mn \rangle 242 \langle /mml:mn \rangle \langle /mml:mmultiscripts \rangle \langle mml:mo \rangle (\langle /mml:mo \rangle \langle mml:mi \rangle n \langle /mml:mi \rangle \langle mml:mo \rangle , \langle /mml:mo \rangle \langle mml:mi \rangle \hat{\beta}^3 \langle /mml:math \rangle$</p>	1.1	0
146	$\hat{\beta}^3$ -ray strength function for astrophysical applications in the IAEA-CRP. EPJ Web of Conferences, 2020, 239, 07005.	0.1	0
147	Studying the Photon Strength Function of ^{97}Zr Using the $^{96}\text{Zr}(n,g)$ and $^{96}\text{Zr}(d,p)$ Reactions. , 2017, , .		0
148	Nuclear Astrophysics with Radioactive Beams. , 2017, , .		0
149	Total absorption spectroscopy measurement on neutron-rich $^{74,75}\text{Cu}$ isotopes. Nuclear Physics A, 2022, 1018, 122359.	0.6	0
150	The study of prompt fission $\hat{\beta}^3$ rays at the Oslo Cyclotron Laboratory. EPJ Web of Conferences, 2021, 256, 00005.	0.1	0