

Magne Sveen Guttormsen

List of Publications by Year in descending order

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131
papers

3,665
citations

101384

36
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149479

56
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131
all docs

131
docs citations

131
times ranked

1128
citing authors

#	ARTICLE	IF	CITATIONS
1	Extraction of level density and $\hat{\Gamma}^3$ strength function from primary $\hat{\Gamma}^3$ spectra. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 447, 498-511.	0.7	226
2	The unfolding of continuum $\hat{\Gamma}^3$ -ray spectra. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 374, 371-376.	0.7	143
3	The first generation of $\hat{\Gamma}^3$ -rays from hot nuclei. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1987, 255, 518-523.	0.7	140
4	Radiative strength functions in Mo93 $\hat{\Gamma}^3$ 98. Physical Review C, 2005, 71, .	1.1	119
5	Analysis of possible systematic errors in the Oslo method. Physical Review C, 2011, 83, . Novel technique for Constraining $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{-Process} (\langle \text{mml:math} \rangle \text{Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 557 Td} (\text{xmlns:mml="ht$	1.1	118
6	Shape Coexistence in the Neutron-Deficient Even-Even $\langle \text{mml:math} \rangle$	2.9	111
7	Studied via Coulomb Excitation. Physical Review Letters, 2014, 112, 162701.	2.9	96
8	Statistical Gamma-Decay at Low Angular Momentum. Physica Scripta, 1990, T32, 54-60.	1.2	86
9	$\hat{\Gamma}^3$ -ray strength function and pygmy resonance in rare earth nuclei. Physical Review C, 2001, 63, . Photoneutron cross sections for Mo isotopes: A step toward a unified understanding of $\langle \text{mml:math} \rangle$	1.1	85
10	Physical Review C, 2013, 88, .	1.1	76
11	The SiRi particle-telescope system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 648, 168-173.	0.7	75
12	Thermal properties and radiative strengths in Dy160,161,162. Physical Review C, 2003, 68, . Evidence for the Dipole Nature of the Low-Energy $\langle \text{mml:math} \rangle$	1.1	70
13	Enhancement in $\langle \text{mml:math} \rangle$	2.9	66
14	Evolution of the pygmy dipole resonance in Sn isotopes. Physical Review C, 2011, 83, .	1.1	64
15	Thermal and electromagnetic properties of ^{166}Er and ^{167}Er . Physical Review C, 2001, 63, .	1.1	62
16	Observation of Large Scissors Resonance Strength in Actinides. Physical Review Letters, 2012, 109, 162503.	2.9	62
17	Scissors resonance in the quasicontinuum of Th, Pa, and U isotopes. Physical Review C, 2014, 89, .	1.1	62
18	Level densities and thermodynamical quantities of heated Mo93 $\hat{\Gamma}^3$ 98 isotopes. Physical Review C, 2006, 73, .	1.1	60

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19	Nuclear level densities and β -ray strength functions in Sc. <i>Physical Review C</i> , 2013, 87, .	1.1	57
20	Validity of the Generalized Brink-Axel Hypothesis in Np. <i>Physical Review C</i> , 2016, 93, .	2.9	55
21	Constant-temperature level densities in the quasicontinuum of Th and U isotopes. <i>Physical Review C</i> , 2013, 88, .	1.1	54
22	Experimental Neutron Capture Rate Constraint Far from Stability. <i>Physical Review Letters</i> , 2016, 116, 242502.	2.9	53
23	Level densities and β -ray strength functions in Sn isotopes. <i>Physical Review C</i> , 2010, 81, .	1.1	50
24	Transitional β -strength in Cd isotopes. <i>Physical Review C</i> , 2013, 87, .	1.1	48
25	Novel techniques for constraining neutron-capture rates relevant for r-process heavy-element nucleosynthesis. <i>Progress in Particle and Nuclear Physics</i> , 2019, 107, 69-108.	5.6	47
26	Level densities and β -strength functions in $^{148,149}\text{Sm}$. <i>Physical Review C</i> , 2002, 65, .	1.1	46
27	Microcanonical entropies and radiative strength functions of $^{50,51}\text{V}$. <i>Physical Review C</i> , 2006, 73, .	1.1	46
28	Level densities and β -ray strength functions in $^{170,171,172}\text{Yb}$. <i>Physical Review C</i> , 2004, 70, .	1.1	45
29	First observation of low-energy β -ray enhancement in the rare-earth region. <i>Physical Review C</i> , 2016, 93, .	1.1	45
30	β -strength functions in ^{60}Ni from two-step cascades following proton capture. <i>Physical Review C</i> , 2010, 81, .	1.1	41
31	Verification of detailed balance for β absorption and emission in Dy isotopes. <i>Physical Review C</i> , 2018, 98, .	1.1	40
32	On the relation between the statistical β -decay and the level density in ^{162}Dy . <i>Nuclear Physics A</i> , 1995, 589, 249-266.	0.6	38
33	Isomeric states in ^{253}No . <i>European Physical Journal A</i> , 2007, 32, 245-250.	1.0	38
34	Experimental level densities of atomic nuclei. <i>European Physical Journal A</i> , 2015, 51, 1.	1.0	38
35	K^+ Emission in Symmetric Heavy Ion Reactions at Subthreshold Energies. <i>Physical Review Letters</i> , 1996, 77, 4884-4886.	2.9	37
36	Thermodynamic properties of ^{56}Fe . <i>Physical Review C</i> , 2008, 78, .	1.1	37

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37	Nuclear excitations at constant temperature. Physical Review C, 2009, 79, .	1.1	37
38	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
39	Ray strength function in the odd-odd nucleus ^{238}Pu . Physical Review C, 2009, 79, .	1.1	36
40	Level density and β -decay properties of closed shell Pb nuclei. Physical Review C, 2009, 79, .	1.1	34
41	Competition above the Neutron Threshold in the Decay of ^{70}P . Physical Review C, 2009, 79, .	1.1	34
42	Level densities in $^{56,57}\text{Fe}$ and $^{96,97}\text{Mo}$. Physical Review C, 2003, 68, .	1.1	31
43	Evidence for the pair-breaking process in ^{116}Sn . Physical Review C, 2009, 79, .	1.1	31
44	Low-energy enhancement in the β -ray strength functions of ^{73}Ge and ^{74}Ge . Physical Review C, 2006, 74, .	1.1	31
45	Breaking of nucleon Cooper pairs at finite temperature in ^{93}Mo . Physical Review C, 2006, 74, .	1.1	30
46	Level density and thermodynamic properties of dysprosium isotopes. Physical Review C, 2012, 85, .	1.1	30
47	Radiative strength functions in ^{163}Dy and ^{164}Dy . Physical Review C, 2010, 81, .	1.1	29
48	Observation of Fine Structure in Nuclear Level Densities and β -Ray Strength Functions. Physical Review Letters, 1996, 77, 2404-2407.	2.9	28
49	Enhanced low-energy β -ray strength function of ^{56}Fe . Physical Review C, 2009, 79, .	1.1	28
50	Extraction of thermal and electromagnetic properties in ^{70}Ni and its robustness within the shell model. Physical Review C, 2018, 97, .	1.1	28
51	Level density of ^{56}Fe and low-energy enhancement of β -strength function. Physical Review C, 2006, 74, .	1.1	27
52	Radiative Width of the Hoyle State from β -Ray Spectroscopy. Physical Review Letters, 2020, 125, 182701.	2.9	26
53	Extraction of thermal and electromagnetic properties in ^{89}Y . Physical Review C, 2009, 79, .	1.1	25
54	Extraction of thermal and electromagnetic properties in ^{45}Ti . Physical Review C, 2009, 80, .	1.1	24

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55	Nuclear level density and β^3 -ray strength function of ^{43}Sc . <i>Physical Review C</i> , 2012, 85, .	1.1	24
56	Experimental First Order Pairing Phase Transition in Atomic Nuclei. <i>Journal of Physics: Conference Series</i> , 2015, 580, 012048.	0.3	22
57	Fermi's golden rule applied to the β^3 decay in the quasicontinuum of ^{46}Ti . <i>Physical Review C</i> , 2011, 83, .	1.1	21
58	Statistical properties of β^3 decay of ^{243}Pu , and β^3 decay of ^{242}Pu .	1.1	21
59	Low-energy enhancement and fluctuations of β^3 -ray strength functions in $^{56,57}\text{Fe}$: test of the Brink's "Axel Quasicontinuum" hypothesis. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2017, 44, 064005.	1.4	21
60	β^3 decay of ^{91}Zr and ^{92}Zr .		

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73	Completing the nuclear reaction puzzle of the nucleosynthesis of Mo92. Physical Review C, 2016, 94, .	1.1	14
74	Independent normalization for γ -ray strength functions: The shape method. Physical Review C, 2021, 104, .	1.1	14
75	Comprehensive Test of the Brink-Axel Hypothesis in the Energy Region of the Pygmy Dipole Resonance. Physical Review Letters, 2021, 127, 182501.	2.9	14
76	Level densities and thermodynamical properties of Pt and Au isotopes. Physical Review C, 2014, 90, .	1.1	13
77	Shell-gap-reduced level densities in Y . Physical Review C, 2014, 90, .	1.1	13
78	Electromagnetic properties of low-lying states in neutron-deficient Hg isotopes: Coulomb excitation of ^{182}Hg , ^{184}Hg , ^{186}Hg and ^{188}Hg . European Physical Journal A, 2019, 55, 1.	1.0	13
79	First application of the Oslo method in inverse kinematics. European Physical Journal A, 2020, 56, 1.	1.0	13
80	Test of the generalized Brink-Axel hypothesis in Ni . Physical Review C, 2018, 98, .	1.1	12
81	Level densities of ^{44}Sc and ^{47}Ti from different experimental techniques. Physical Review C, 2008, 77, .	1.1	11
82	A new fission-fragment detector to complement the CACTUS-SiRi setup at the Oslo Cyclotron Laboratory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 738, 6-12.	0.7	11
83	γ decay from the quasicontinuum of $^{197,198}\text{Au}$. Physical Review C, 2015, 91, .	1.1	11
84	Fine Structure in the alpha decays of ^{226}U and ^{230}Pu . European Physical Journal A, 1999, 6, 269-273.	1.0	10
85	Investigating the γ decay of ^{65}Ni from particle- γ coincidence data. Physical Review C, 2017, 96, .	1.1	10
86	Energy dependence of the prompt γ -ray emission from the (d,p)-induced fission of ^{234}U and ^{240}Pu . Physical Review C, 2017, 96, .	1.1	10
87	γ -ray intensities and γ -ray strength functions from discrete two-step γ -ray cascades in ^{137}Ba . Physical Review C, 2017, 96, .	1.1	10
88	Restricted spin-range correction in the Oslo Method: The example of nuclear level density and γ -ray strength function from ^{239}Pu . Physical Review C, 2017, 96, .	1.1	9
89	Restricted spin-range correction in the Oslo Method: The example of nuclear level density and γ -ray strength function relevant to ^{191}Au . Physical Review C, 2017, 96, .	1.1	9
90	Nuclear level densities and γ -ray strength functions of Ta180,181,182. Physical Review C, 2019, 99, .	1.1	8

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91	Strong enhancement of level densities in the crossover from spherical to deformed neodymium isotopes. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 816, 136206.	1.5	8
92	Statistical properties of the well deformed Sm153,155 nuclei and the scissors resonance. Physical Review C, 2021, 103, .	1.1	7
93	Level density and thermal properties in rare earth nuclei. Physics of Atomic Nuclei, 2001, 64, 1186-1193.	0.1	6
94	Experimental constraints on the α -decay reaction rate. Physical Review C, 2019, 99, .	1.1	6
95	α -decay strength distributions from total absorption spectroscopy. Physical Review C, 2019, 100, .	1.1	5
96	Lifetime Measurements and Coulomb Excitation of Light Hg Nuclei. , 2009, , .		4
97	The Oslo Cyclotron Laboratory. European Physical Journal Plus, 2021, 136, 1.	1.2	4
98	Excitation energy dependence of prompt fission γ -ray emission from ^{241}Pu . Physical Review C, 2021, 103, .	1.1	4
99	Bulk properties of iron isotopes. Physics of Atomic Nuclei, 2007, 70, 1634-1639.	0.1	3
100	Nuclear thermodynamics below particle threshold. AIP Conference Proceedings, 2005, , .	0.3	2
101	Level densities and radiative strength functions. , 2009, , .		2
102	Gamma-ray strength functions and their relation to astrophysics. , 2011, , . Equilibrium and pre-equilibrium processes in the α -decay of ^{54}Mn .		2
103			

#	ARTICLE	IF	CITATIONS
109	Identification of excited states in [^{sup 226}]U: Evidence for octupole deformation. , 1999, , .		0
110	Measurements of level densities and gamma ray strength functions. AIP Conference Proceedings, 2000, , .	0.3	0
111	Average Nuclear Level Densities and Radiative Strength Functions in ^{56,57} Fe from Primary $\hat{\Gamma}^3$ -ray Spectra. AIP Conference Proceedings, 2003, , .	0.3	0
112	RADIATIVE STRENGTH FUNCTIONS AND LEVEL DENSITIES. , 2003, , .		0
113	Entropy In Hot Nuclei. AIP Conference Proceedings, 2005, , .	0.3	0
114	Level densities of iron isotopes and low-energy enhancement of $\hat{\Gamma}^3$ -strength function. AIP Conference Proceedings, 2006, , .	0.3	0
115	Single Particle Entropy in Heated Nuclei. AIP Conference Proceedings, 2006, , .	0.3	0
116	Nuclear properties in the vicinity of closed shells. AIP Conference Proceedings, 2006, , .	0.3	0
117	Heating Nuclei in the Mass Region of $A \hat{\sim} 40 \hat{\sim} 50$. AIP Conference Proceedings, 2006, , .	0.3	0
118	Extracting Experimental Level Densities in $A \hat{\sim} 207 \hat{\sim} 208$ Nuclei. AIP Conference Proceedings, 2006, , .	0.3	0
119	Primary versus secondary $\hat{\Gamma}^3$ intensities in ^{Yb171} (nth, $\hat{\Gamma}^3$). Physical Review C, 2006, 74, .	1.1	0
120	Experimental Level Densities and $\hat{\Gamma}^3$ -Strength Functions in rare earth nuclei. AIP Conference Proceedings, 2008, , .	0.3	0
121	Experimental nuclear level densities and $\hat{\Gamma}^3$ -ray strength functions in Sc and V isotopes. AIP Conference Proceedings, 2008, , .	0.3	0
122	Level densities and $\hat{\Gamma}^3$ -strength functions in Sm isotopes. AIP Conference Proceedings, 2008, , .	0.3	0
123	The Oslo Method and Its Application to Lead Isotopes. AIP Conference Proceedings, 2008, , .	0.3	0
124	Spectroscopy of heavy elements at Dubna. AIP Conference Proceedings, 2008, , .	0.3	0
125	Thermodynamic properties of atomic nuclei with $T < 1 \hat{\sim} \% \text{MeV}$. AIP Conference Proceedings, 2008, , .	0.3	0
126	Puzzling $\hat{\Gamma}^3$ -ray strength functions in [^{sup 44,45}]Sc and [^{sup 50,51}]V. AIP Conference Proceedings, 2008, , .	0.3	0

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127	Spectroscopy of transfermium nuclei using the GABRIELA set up at the focal plane of the VASSILISSA recoil separator. , 2010, , .		0
128	THERMAL QUENCHING OF PAIR CORRELATIONS IN RARE EARTH NUCLEI. , 2001, , .		0
129	SINGLE QUASIPARTICLE ENTROPY IN EXCITED NUCLEI WITH T ≤ 1 MEV. , 2001, , .		0
130	Nuclear Astrophysics with Radioactive Beams. , 2017, , .		0
131	The Beta-Oslo Method: Experimentally Constrained (n,γ) Reaction Rates Relevant to the r-Process. Springer Proceedings in Physics, 2019, , 137-140.	0.1	0