

Magne Sveen Guttormsen

List of Publications by Year in descending order

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131
papers

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101384

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149479

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#	ARTICLE	IF	CITATIONS
1	The <math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e657" altimg="si76.svg">$\hat{\Gamma}^3$</math> -ray energy response of the Oslo Scintillator Array OSCAR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 985, 164678.	0.7	18
2	The Oslo Cyclotron Laboratory. European Physical Journal Plus, 2021, 136, 1.	1.2	4
3	Excitation energy dependence of prompt fission $\hat{\Gamma}^3$ -ray emission from ^{241}Pu. Physical Review C, 2021, 103, .	1.1	4
4	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
5	Independent normalization for $\hat{\Gamma}^3$ -ray strength functions: The shape method. Physical Review C, 2021, 104, .	1.1	14
6	Statistical properties of the well deformed Sm153,155 nuclei and the scissors resonance. Physical Review C, 2021, 103, .	1.1	7
7	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
8	Radiative Width of the Hoyle State from $\hat{\Gamma}^3$ -Ray Spectroscopy. Physical Review Letters, 2020, 125, 182701.	2.9	26
9	Simultaneous Determination of Neutron-Induced Fission and Radiative Capture Cross Sections from Decay Probabilities Obtained with a Surrogate Reaction. Physical Review Letters, 2020, 125, 122502.	2.9	16
10	First application of the Oslo method in inverse kinematics. European Physical Journal A, 2020, 56, 1.	1.0	13
11	Primary $\hat{\Gamma}^3$ -ray intensities and strength functions from discrete two-step Restricted spin-range correction in the Oslo Method: The example of nuclear level density and decay cascades in ^{239}Pu.	1.1	10
12	Strength function from ^{239}Pu.	1.1	9
13	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
14	First experimental constraint on the reaction rate relevant to $\hat{\Gamma}^3$ -process nucleo	1.1	8
15	Nuclear level densities and $\hat{\Gamma}^3$ -ray strength functions of Ta180,181,182. Physical Review C, 2019, 99, .	1.1	8
16	Nuclear level densities and $\hat{\Gamma}^3$ -ray strength functions in samarium isotopes. Physical Review C, 2019, 99, .	1.1	15
17	Level densities or ^{74}Ge from compound nuclear reactions. Physical Review C, 2019, 99, .	1.1	15
18	Re-estimation of ^{180}Ta nucleosynthesis in light of newly constrained reaction rates. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 791, 403-408.	1.5	15

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19	Experimental constraints on the β -decay strength distributions from total absorption spectroscopy. <i>Physical Review C</i> , 2019, 99, . $\langle \sigma \rangle$ reaction rate.	1.1	6
20	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
21	Decay strength distributions from total absorption spectroscopy. <i>Physical Review C</i> , 2019, 100, . $\langle \sigma \rangle$	1.1	5
22	The Beta-Oslo Method: Experimentally Constrained (β -) Reaction Rates Relevant to the r-Process. <i>Springer Proceedings in Physics</i> , 2019, , 137-140.	0.1	0
23	Examination of the low-energy enhancement of the β -ray strength function of ^{56}Fe . Test of the generalized Brink-Axel hypothesis in ^{56}Fe . <i>Physical Review C</i> , 2018, 97, .	1.1	28
24	Photoneutron cross sections for Ni isotopes: Toward understanding cross sections relevant to weak r-process nucleosynthesis. <i>Physical Review C</i> , 2018, 98, .	1.1	12
25	Verification of detailed balance for β -absorption and emission in Dy isotopes. <i>Physical Review C</i> , 2018, 98, .	1.1	40
26	Photoneutron cross sections for Ni isotopes: Toward understanding cross sections relevant to weak r-process nucleosynthesis. <i>Physical Review C</i> , 2018, 98, .	1.1	15
27	Low-energy enhancement and fluctuations of β -ray strength of ^{56}Ni and its robustness within the shell model. <i>Physical Review C</i> , 2018, 97, .	1.1	28
28	Low-energy enhancement and fluctuations of β -ray strength functions in $^{56,57}\text{Fe}$: test of the Brink-Axel hypothesis. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2017, 44, 064005.	1.4	21
29	Decay of ^{91}Zr and ^{92}Zr		

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37	Completing the nuclear reaction puzzle of the nucleosynthesis of Mo92. Physical Review C, 2016, 94, .	1.1	14
38	Statistical properties of ^{243}Pu , and ^{242}Pu β -ray enhancement β -ray strength functions of ^{242}Pu and ^{243}Pu First observation of low-energy β -ray enhancement Experimentally constrained β -ray strength functions of ^{242}Pu Validity of the Generalized Brink-Axel Hypothesis in ^{242}Pu Novel technique for Constraining β -Process (^{242}Pu)	1.1	21
39	β -ray enhancement in the rare-earth region. Physical Review C, 2016, 93, .	1.1	45
40	Experimentally constrained β -ray strength functions of ^{242}Pu and ^{243}Pu β -ray strength functions of ^{242}Pu Validity of the Generalized Brink-Axel Hypothesis in ^{242}Pu	1.1	25
41	Validity of the Generalized Brink-Axel Hypothesis in ^{242}Pu Novel technique for Constraining β -Process (^{242}Pu)	1.1	31
42	Novel technique for Constraining β -Process (^{242}Pu)	2.9	55
43	Experimental Neutron Capture Rate Constraint Far from Stability. Physical Review Letters, 2016, 116, 242502.	2.9	53
44	β -decay from the quasicontinuum of $^{197,198}\text{Au}$. Physical Review C, 2015, 91, .	1.1	11
45	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
46	Experimental level densities of atomic nuclei. European Physical Journal A, 2015, 51, 1.	1.0	38
47	Experimental First Order Pairing Phase Transition in Atomic Nuclei. Journal of Physics: Conference Series, 2015, 580, 012048.	0.3	22
48	Novel technique for Constraining β -Process (^{242}Pu)	2.9	111
49	Rygmy resonance and low-energy enhancement in the β -ray strength functions of Pd isotopes. Physical Review C, 2014, 90, .	1.1	16
50	Scissors resonance in the quasicontinuum of Th, Pa, and U isotopes. Physical Review C, 2014, 89, .	1.1	62
51	Level density and β -ray strength function in the odd-odd ^{238}Np nucleus. Physic	1.1	36
52	Level densities and thermodynamical properties of Pt and Au isotopes. Physical Review C, 2014, 90, .	1.1	13
53	Shape Coexistence in the Neutron-Deficient Even-Even ^{182}Hg and ^{188}Hg Studied via Coulomb Excitation. Physical Review Letters, 2014, 112, 162701	2.9	96
54	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

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55	Shell-gap-reduced level densities in Y	1.1	13
56	Photon-neutron cross sections for Mo isotopes: A step toward a unified understanding of $\langle \sigma \rangle$	1.1	76
57	Enhancement in Fe	2.9	66
58	Constant-temperature level densities in the quasicontinuum of Th and U isotopes. Physical Review C, 2013, 88, .	1.1	54
59	Transitional I^3 strength in Cd isotopes. Physical Review C, 2013, 87, .	1.1	48
60	Experimental differential cross sections, level densities, and spin cutoffs as a testing ground for nuclear reaction codes. Physical Review C, 2013, 88, .	1.1	2
61	Extreme nonstatistical effects in I^3 decay of ^{95}Mo neutron resonances. Physical Review C, 2013, 88, .	1.1	14
62	Indirect (n, I^3) cross sections of thorium cycle nuclei using the surrogate method. Physical Review C, 2012, 85, .	1.1	16
63	Level density and thermodynamic properties of dysprosium isotopes. Physical Review C, 2012, 85, .	1.1	30
64	Primary I^3 -ray spectra in ^{44}Ti of astrophysical interest. Physical Review C, 2012, 85, .	1.1	14
65	Observation of Large Scissors Resonance Strength in Actinides. Physical Review Letters, 2012, 109, 162503.	2.9	62
66	Nuclear level density and I^3 -ray strength function of ^{43}Sc . Physical Review C, 2012, 85, .	1.1	24
67	Fermi's golden rule applied to the I^3 decay in the quasicontinuum of ^{46}Ti . Physical Review C, 2011, 83, .	1.1	21
68	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
69	Gamma-ray strength functions and their relation to astrophysics. , 2011, , .		2
70	Evolution of the pygmy dipole resonance in Sn isotopes. Physical Review C, 2011, 83, .	1.1	64
71	Analysis of possible systematic errors in the Oslo method. Physical Review C, 2011, 83, . Equilibrium and pre-equilibrium processes in the Mn	1.1	118
72			

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73	\hat{I}^3 -strength functions in Ni60 from two-step cascades following proton capture. Physical Review C, 2010, 81, .	1.1	41
74	Level densities and \hat{I}^3 -ray strength functions in Sn isotopes. Physical Review C, 2010, 81, .	1.1	50
75	Radiative strength functions in ^{163}Dy and ^{164}Dy . Physical Review C, 2010, 81, .	1.1	29
76	Spectroscopy of transfermium nuclei using the GABRIELA set up at the focal plane of the VASSILISSA recoil separator. , 2010, , .		0
77	Lifetime Measurements and Coulomb Excitation of Light Hg Nuclei. , 2009, , .		4
78	Level density and \hat{I}^3 -decay properties of closed shell Pb nuclei. Physical Review C, 2009, 79, .	1.1	34
79	Extraction of thermal and electromagnetic properties in ^{45}Ti . Physical Review C, 2009, 79, .	1.1	24
80	Evidence for the pair-breaking process in ^{116}Sn and ^{117}Sn . Physical Review C, 2009, 79, .	1.1	31
81	Nuclear excitations at constant temperature. Physical Review C, 2009, 79, .	1.1	37
82	Level densities and radiative strength functions. , 2009, , .		2
83	Experimental Study of Level Density and \hat{I}^3 -strength Functions from Compound Nuclear Reactions. AIP Conference Proceedings, 2008, , .	0.3	1
84	Experimental Level Densities and \hat{I}^3 -Strength Functions in rare earth nuclei. AIP Conference Proceedings, 2008, , .	0.3	0
85	Experimental nuclear level densities and \hat{I}^3 -ray strength functions in Sc and V isotopes. AIP Conference Proceedings, 2008, , .	0.3	0
86	Level densities and \hat{I}^3 -strength functions in Sm isotopes. AIP Conference Proceedings, 2008, , .	0.3	0
87	The Oslo Method and Its Application to Lead Isotopes. AIP Conference Proceedings, 2008, , .	0.3	0
88	Spectroscopy of heavy elements at Dubna. AIP Conference Proceedings, 2008, , .	0.3	0
89	Thermodynamic properties of atomic nuclei with $T < 1 \text{ MeV}$. AIP Conference Proceedings, 2008, , .	0.3	0
90	Puzzling \hat{I}^3 -ray strength functions in $^{44,45}\text{Sc}$ and $^{50,51}\text{V}$. AIP Conference Proceedings, 2008, , .	0.3	0

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91	Thermodynamic properties of ^{56}Fe . Physical Review C, 2008, 78, .	1.1	37
92	Level densities of ^{44}Sc and ^{47}Ti from different experimental techniques. Physical Review C, 2008, 77, .	1.1	11
93	Nuclear level densities and β -ray strength functions in ^{44}Sc and ^{45}Ti . Physical Review C, 2007, 76, .	1.1	57
94	Bulk properties of iron isotopes. Physics of Atomic Nuclei, 2007, 70, 1634-1639.	0.1	3
95	Isomeric states in ^{253}No . European Physical Journal A, 2007, 32, 245-250.	1.0	38
96	Level density of ^{56}Fe and low-energy enhancement of \hat{I}^3 -strength function. Physical Review C, 2006, 74, .	1.1	27
97	Level densities of iron isotopes and low-energy enhancement of \hat{I}^3 -strength function. AIP Conference Proceedings, 2006, , .	0.3	0
98	Single Particle Entropy in Heated Nuclei. AIP Conference Proceedings, 2006, , .	0.3	0
99	Nuclear properties in the vicinity of closed shells. AIP Conference Proceedings, 2006, , .	0.3	0
100	Heating Nuclei in the Mass Region of $A \approx 40$ - 50. AIP Conference Proceedings, 2006, , .	0.3	0
101	Extracting Experimental Level Densities in $A \approx 207$ - 208 Nuclei. AIP Conference Proceedings, 2006, , .	0.3	0
102	Primary versus secondary \hat{I}^3 intensities in ^{171}Yb ($n\text{th}, \hat{I}^3$). Physical Review C, 2006, 74, .	1.1	0
103	Breaking of nucleon Cooper pairs at finite temperature in $^{93-98}\text{Mo}$. Physical Review C, 2006, 74, .	1.1	30
104	Microcanonical entropies and radiative strength functions of $^{50,51}\text{V}$. Physical Review C, 2006, 73, .	1.1	46
105	Level densities and thermodynamical quantities of heated $^{93-98}\text{Mo}$ isotopes. Physical Review C, 2006, 73, .	1.1	60
106	Entropy In Hot Nuclei. AIP Conference Proceedings, 2005, , .	0.3	0
107	Nuclear thermodynamics below particle threshold. AIP Conference Proceedings, 2005, , .	0.3	2
108	Radiative strength functions in $^{93-98}\text{Mo}$. Physical Review C, 2005, 71, .	1.1	119

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109	Level densities and $\hat{\Gamma}^3$ -ray strength functions in Yb170,171,172. Physical Review C, 2004, 70, .	1.1	45
110	Nature of the pygmy resonance in continuous $\hat{\Gamma}^3$ spectra. Physics of Atomic Nuclei, 2004, 67, 1866-1872.	0.1	1
111	Thermal properties and radiative strengths in Dy160,161,162. Physical Review C, 2003, 68, .	1.1	70
112	Level densities in Fe56,57 and Mo96,97. Physical Review C, 2003, 68, .	1.1	31
113	Average Nuclear Level Densities and Radiative Strength Functions in 56,57Fe from Primary $\hat{\Gamma}^3$ -ray Spectra. AIP Conference Proceedings, 2003, , .	0.3	0
114	RADIATIVE STRENGTH FUNCTIONS AND LEVEL DENSITIES. , 2003, , .		0
115	Thermodynamical Properties Of 56Fe. AIP Conference Proceedings, 2003, , .	0.3	1
116	Level densities and $\hat{\Gamma}^3$ -strength functions in 148,149Sm. Physical Review C, 2002, 65, .	1.1	46
117	Level density and thermal properties in rare earth nuclei. Physics of Atomic Nuclei, 2001, 64, 1186-1193.	0.1	6
118	Thermal and electromagnetic properties of 166Er and 167Er. Physical Review C, 2001, 63, .	1.1	62
119	$\hat{\Gamma}^3$ -ray strength function and pygmy resonance in rare earth nuclei. Physical Review C, 2001, 63, .	1.1	85
120	THERMAL QUENCHING OF PAIR CORRELATIONS IN RARE EARTH NUCLEI. , 2001, , .		0
121	SINGLE QUASIPARTICLE ENTROPY IN EXCITED NUCLEI WITH T ≤ 1 MEV. , 2001, , .		0
122	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
123	Measurements of level densities and gamma ray strength functions. AIP Conference Proceedings, 2000, , .	0.3	0
124	Identification of excited states in [²²⁶ U]: Evidence for octupole deformation. , 1999, , .		0
125	Fine Structure in the alpha decays of 226U and 230Pu. European Physical Journal A, 1999, 6, 269-273.	1.0	10
126	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

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127	Observation of Fine Structure in Nuclear Level Densities and $\hat{\Gamma}^3$ -Ray Strength Functions. Physical Review Letters, 1996, 77, 2404-2407.	2.9	28
128	K+Emission in Symmetric Heavy Ion Reactions at Subthreshold Energies. Physical Review Letters, 1996, 77, 4884-4886.	2.9	37
129	On the relation between the statistical $\hat{\Gamma}^3$ -decay and the level density in ^{162}Dy . Nuclear Physics A, 1995, 589, 249-266.	0.6	38
130	Statistical Gamma-Decay at Low Angular Momentum. Physica Scripta, 1990, T32, 54-60.	1.2	86
131	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