

# Ingemar Ragnarsson

## List of Publications by Year in descending order

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140  
papers

5,819  
citations

136740

32  
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76769

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140  
docs citations

140  
times ranked

1065  
citing authors

#	ARTICLE	IF	CITATIONS
1	Discovery of $^{280}\text{Ds}$ and an Excited State in $^{280}\text{Ds}$ . Physical Review C, 2021, 103, .	2.9	37
2	Low- and medium-spin negative-parity bands in the $^{187}\text{Os}$ nucleus. Physical Review C, 2021, 103, .	1.1	3
3	Low-, medium-, and high-spin states in the $N=Z+1$ nucleus $^{63}\text{Ga}$ . Physical Review C, 2021, 103, .	1.1	0
4	Highly deformed band structures due to core excitations in $^{123}\text{Xe}$ . Physical Review C, 2021, 103, .	1.1	2
5	Single-particle and collective excitations in the $N=28$ isotones $^{54}\text{Fe}$ and $^{54}\text{Mn}$ . Physical Review C, 2020, 102, .	1.1	2
6	Onset of high-spin rotational bands in the $N=Z$ nucleus $^{62}\text{Ga}$ . Physical Review C, 2020, 102, .	1.1	3
7	Evolution of collective and noncollective structures in $^{123}\text{Xe}$ . Physical Review C, 2020, 101, .	1.1	9
8	Interpretation of normal-deformed bands in $^{167}\text{Lu}$ . Physical Review C, 2020, 101, .	1.1	6
9	Evolution of collectivity and evidence of octupole correlations in $^{73}\text{Br}$ . Physical Review C, 2019, 100, .	1.1	19
10	High spin states of the normally deformed bands of $^{83}\text{Y}$ . Physical Review C, 2019, 100, .	1.1	3
11	Observation of rotation about the longest principal axis in $^{89}\text{Zr}$ . Physical Review C, 2019, 99, .	1.1	7
12	Absence of paired crossing in the positive parity bands of $^{124}\text{Cs}$ . Physical Review C, 2018, 97, .	1.1	3
13	Terminating states in the positive-parity structures of $^{67}\text{As}$ . Physical Review C, 2018, 98, .	1.1	4
14	Quantum-state-selective decay spectroscopy of $^{213}\text{Ra}$ . Physical Review C, 2017, 96, .	1.1	8
15	Triaxial rotation-axis flip triggered by an isoscalar $n$ - $p$ pair. Physical Review C, 2017, 95, .	1.1	4
16	How deformed are the TSD bands in odd Lu isotopes?. Physica Scripta, 2017, 92, 124004.	1.2	4
17	Single-particle and collective excitations in $^{62}\text{Ni}$ . Physical Review C, 2016, 94, .	1.1	12
18	Observation of high-spin bands with large moments of inertia in $^{124}\text{Xe}$ . Physical Review C, 2016, 94, .	1.1	4

#	ARTICLE	IF	CITATIONS
19	PAIRING CORRELATIONS AT HIGH SPINS. , 2016, , .		0
20	Search for the terminating $27\hbar^2$ state in $^{140}\text{Nd}$ . Physical Review C, 2015, 92, .	1.1	3
21	Multiple triaxial bands in $^{138}\text{Nd}$ . Physical Review C, 2014, 89, .	1.1	21
22	High-spin terminating states in the $^{155}\text{Ho}$ nucleus. Physical Review C, 2014, 89, .	1.1	5
23	Shape Coexistence, Triaxial Shape and Band Terminations at High Spin. Acta Physica Polonica B, 2015, 46, 477.	0.3	6
24	Shape evolution and magnetic rotation in $^{141}\text{Nd}$ . European Physical Journal A, 2015, 51, 1.	1.0	11
25	Interpretation of the high spin states in $^{161}\text{Lu}$ . Physical Review C, 2014, 89, .	1.1	23
26	Revised level structure of $^{120}\text{Te}$ . Physical Review C, 2014, 90, .	1.1	10
27	Comparative study of rotational bands in the $A \approx 60$ mass region: Modification of Nilsson parameters. Physical Review C, 2014, 89, .	1.1	9
28	Structure of superheavy nuclei along decay chains of element 115. Physical Review C, 2014, 90, .	1.1	29
29	Single-particle and collective excitations in $^{63}\text{Ni}$ . Physical Review C, 2013, 88, .	1.1	16
30	Quadrupole moments of coexisting collective shapes at high spin in $^{154}\text{Er}$ . Physical Review C, 2013, 88, .	1.1	5
31	Collective and noncollective excitations in $^{122}\text{Te}$ . Physical Review C, 2013, 88, .	1.1	9
32	Switch from short-axis to intermediate-axis rotation in $^{138}\text{Nd}$ . Physical Review C, 2013, 88, .	1.1	15
33	EXOTIC BEHAVIOR AT ULTRAHIGH SPIN VALUES IN LIGHT RARE-EARTH $N \sim 90$ NUCLEI. , 2013, , .		0
34	Interpretation of the large-deformation high-spin bands in select $^{158}\text{A}$ nuclei. Physical Review C, 2012, 86, .	1.1	29
35	High-spin spectroscopy of $^{122}\text{I}$ . Physical Review C, 2012, 85, .	1.1	14
36	Core excitations beyond maximally aligned configurations in $^{123}\text{I}$ . Physical Review C, 2012, 85, .	1.1	18

#	ARTICLE	IF	CITATIONS
37	Extensive $\gamma$ -ray spectroscopy of band structures in $^{137}\text{Er}$ and $^{158}\text{Er}$ : A challenge for understanding triaxiality in nuclei. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 86, .	1.1	17
38	High-spin rotational bands in $^{123}\text{I}$ . <i>Physical Review C</i> , 2012, 86, .	1.1	7
39	TERMINATING ROTATIONAL BANDS IN NUCLEI. , 2012, , .		0
40	Highly deformed high-spin band in $^{125}\text{I}$ . <i>Physical Review C</i> , 2011, 84, .	1.1	14
41	Quadrupole moments of collective structures up to spin $5/2$ in $^{157}\text{Er}$ and $^{158}\text{Er}$ : A challenge for understanding triaxiality in nuclei. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 702, 127-130.	1.5	31
42	Evidence for shape coexistence at medium spin in $^{76}\text{Rb}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 701, 306-312.	1.5	16
43	Structure changes in $^{160}\text{Er}$ from low to high spin. <i>Physical Review C</i> , 2011, 84, .	1.1	22
44	Soft nuclei $^{135}\text{Pr}$ and $^{134}\text{Ce}$ . <i>Physical Review C</i> , 2011, 84, .	1.1	11
45	Candidate chiral bands in $^{198}\text{Tl}$ . <i>European Physical Journal A</i> , 2010, 45, 39-50.	1.0	19
46	Isospin and deformation studies in the odd-odd $N=Z$ nucleus $^{54}\text{Co}$ . <i>Physical Review C</i> , 2010, 82, .	1.1	10
47	Noncollective aligned and antialigned states in $^{125}\text{I}$ . <i>Physical Review C</i> , 2010, 82, .	1.1	21
48	Coulomb excitation of a $^{242}\text{Am}$ isomeric target. <i>Physical Review C</i> , 2010, 82, .	1.1	8
49	TERMINATING STATES IN $Z = 71$ Lu NUCLEI WITH $N \approx 90$ . <i>International Journal of Modern Physics E</i> , 2010, 19, 590-600.	0.4	5
50	Loss of collectivity in the transitional $^{156}\text{Er}$ nucleus at high spin. <i>Physical Review C</i> , 2010, 82, .	1.1	21
51	Characterization of superdeformed bands in $^{62}\text{Zn}$ . <i>Physical Review C</i> , 2010, 82, .	1.1	17
52	$\gamma$ -ray and particle decay investigations of $^{58}\text{Ni}$ . <i>Physical Review C</i> , 2010, 82, .	1.1	27
53	$\gamma$ -ray spectroscopy of rotational bands in the $^{60}\text{Zn}$ nucleus. <i>Physical Review C</i> , 2009, 79, .	1.1	18
54	Investigation of lifetimes in quadrupole bands of $^{142}\text{Gd}$ . <i>European Physical Journal A</i> , 2008, 35, 135-158.	1.0	16

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55	Extensive $\hat{I}^3$ -ray spectroscopy of normally and superdeformed structures in $61\ 29\text{Cu}32$ . European Physical Journal A, 2008, 36, 251-278.	1.0	21
56	Possible chirality in the doubly-odd $119\text{Tl}$ nucleus: Residual interaction at play. Physical Review C, 2008, 78, .	1.1	75
57	Triaxial shape with rotation around the longest principal axis in $^{142}\text{Gd}$ . Physical Review C, 2008, 78, .	1.1	38
58	Prompt proton decay and deformed bands in $^{56}\text{Ni}$ . Physical Review C, 2008, 77, .	1.1	32
59	Triaxial strongly deformed bands in $^{160,161}\text{Tm}$ . Physical Review C, 2008, 78, .	1.1	18
60	Classification of Superdeformed Bands in the Mass $A \approx 1460$ Region. , 2008, , .		0
61	New shape minimum in $^{160}\text{Yb}$ : Evidence for a triaxial, strongly deformed band. Physical Review C, 2008, 77, .	1.1	21
62	Smooth terminating bands in $^{112}\text{Te}$ : Particle-hole induced collectivity. Physical Review C, 2007, 75, .	1.1	12
63	Rotational structures and their evolution with spin in $^{152}\text{Gd}$ . Physical Review C, 2007, 75, .	1.1	9
64	$\hat{I}^3$ -ray spectroscopy of neutron-deficient $^{110}\text{Te}$ . II. High-spin smooth-terminating structures. Physical Review C, 2007, 76, .	1.1	13
65	Return of Collective Rotation in $^{157}\text{Er}$ and $^{158}\text{Er}$ at Ultrahigh Spin. Physical Review Letters, 2007, 98, 012501.	2.9	62
66	Stable collective triaxial rotation in $^{77}\text{Kr}$ . European Physical Journal A, 2007, 33, 303-306.	1.0	3
67	Calculating the nuclear mass in the very high angular momentum regime. Physical Review C, 2006, 74, .	1.1	101
68	Nuclear binding energy at high spin. AIP Conference Proceedings, 2006, , .	0.3	0
69	$^{58}\text{Ni}$ : An Unpaired Band Crossing at New Heights of Angular Momentum for Rotating Nuclei. Physical Review Letters, 2006, 96, 092501.	2.9	24
70	High-spin structure in $^{157}\text{Er}$ up to and above band termination. Physical Review C, 2006, 73, .	1.1	16
71	Six-quasiparticle isomer in $^{140}\text{Nd}$ . Physical Review C, 2006, 74, .	1.1	21
72	Triaxial shape induced by couplings between equatorial orbitals. Physical Review C, 2006, 74, .	1.1	5

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73	Evidence for Nontermination of Rotational Bands in Kr74. Physical Review Letters, 2005, 95, 232501.	2.9	44
74	High-spin states and band terminations in As69. Physical Review C, 2004, 70, .	1.1	13
75	High-Spin Structure beyond Band Termination in Er157. Physical Review Letters, 2004, 92, 252502.	2.9	22
76	Evidence for noncollective oblate structures at high spin in Cs123. Physical Review C, 2004, 70, .	1.1	26
77	THE NUCLEAR MASS AT FINITE ANGULAR MOMENTA. International Journal of Modern Physics E, 2004, 13, 87-96.	0.4	7
78	Competing decay-out mechanisms of the yrast superdeformed band in 59Cu. AIP Conference Proceedings, 2004, , .	0.3	0
79	Complete spectroscopy in high-spin cranking calculations. European Physical Journal A, 2003, 20, 35-36.	1.0	0
80	High-spin structure of $N \approx Z$ nuclei around the $A = 72$ region. European Physical Journal A, 2003, 20, 131-132.	1.0	10
81	Transition strengths and band terminations in 86Zr. Physical Review C, 2003, 67, .	1.1	12
82	Lifetime measurements and terminating structures in 87Nb. Physical Review C, 2003, 67, .	1.1	8
83	Doorway States in the Gamma Decay-Out of the Yrast Superdeformed Band in Cu59. Physical Review Letters, 2003, 91, 232502.	2.9	19
84	Competition between terminating and collective structures above spin $40\hbar$ in 154Dy. Physical Review C, 2002, 65, .	1.1	22
85	Evidence for a $g_{9/2}$ rotational band in 51Mn. Physical Review C, 2002, 66, .	1.1	14
86	Rotational bands with terminating properties in 59Ni. Physical Review C, 2002, 65, .	1.1	16
87	Structure of neutron-rich s-d shell nuclei. Physics of Atomic Nuclei, 2002, 65, 713-719.	0.1	3
88	Evolution of shapes in 59Cu. European Physical Journal A, 2002, 14, 317-348.	1.0	46
89	Lifetimes of superdeformed rotational states in 36Ar. Physical Review C, 2001, 63, .	1.1	71
90	Smooth band termination at high spin in 113I. Physical Review C, 2001, 64, .	1.1	20

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91	SIGNATURE INVERSION CAUSED BY TRIAXIALITY IN <sup>72</sup> BR AND BAND TERMINATION IN <sup>73</sup> BR. , 2001, , .		0
92	Triaxiality in <sup>48</sup> Cr. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 477, 66-72.	1.5	28
93	Terminating bands in <sup>98,99,100</sup> Ru nuclei: New information on the neutron <sup>2</sup> d <sub>5/2</sub> and <sup>1</sup> g <sub>7/2</sub> energy spacing. Physical Review C, 2000, 62, .	1.1	36
94	Identification of excited states in <sup>119</sup> Ba. Physical Review C, 2000, 61, .	1.1	10
95	Band terminations in the valence space of <sup>86</sup> Zr. Physical Review C, 2000, 61, .	1.1	14
96	Very high rotational frequencies and band termination in <sup>73</sup> Br. Physical Review C, 2000, 62, .	1.1	25
97	Highly deformed rotational structures in <sup>136</sup> Pm. Physical Review C, 2000, 62, .	1.1	8
98	Discrete line <sup>3</sup> -ray spectroscopy in the (50 $\leq$ 60) $\gamma$ -spin domain of <sup>161,162</sup> Er. Physical Review C, 2000, 62, .	1.1	21
99	Signature Inversion Caused by Triaxiality and Unpaired Band Crossings in <sup>87</sup> Zr. Physical Review Letters, 2000, 85, 2454-2457.	2.9	33
100	Yrast superdeformed band in <sup>59</sup> Cu. Physical Review C, 2000, 62, .	1.1	34
101	Collective dipole bands in [ <sup>110,112</sup> ]Te: Stability against magnetic rotation. , 1999, , .		0
102	Smooth band termination in the mass A=110 region. , 1999, , .		0
103	Decay Out of the Doubly Magic Superdeformed Band in the N=Z Nucleus <sup>260</sup> n. Physical Review Letters, 1999, 82, 3400-3403.	2.9	99
104	Band terminations in <sup>103</sup> Pd. Physical Review C, 1999, 60, .	1.1	30
105	High-fold <sup>3</sup> -ray spectroscopy of <sup>117</sup> I: Coexistence of collective and noncollective structures. Physical Review C, 1999, 59, 1984-1998.	1.1	21
106	Stable triaxiality at the highest spins in <sup>138</sup> Nd and <sup>139</sup> Nd. Physical Review C, 1999, 61, .	1.1	42
107	Terminating bands in the doubly odd nucleus <sup>102</sup> Rh. Physical Review C, 1999, 59, R570-R574.	1.1	16
108	New band structures and an unpaired crossing in <sup>78</sup> Kr. Physical Review C, 1999, 59, 655-664.	1.1	21

#	ARTICLE	IF	CITATIONS
109	Superdeformation in $^{68}\text{Zn}$ : Evidence for a New, Neutron-Rich Island of Superdeformation in $A \approx 70$ Nuclei. <i>Physical Review Letters</i> , 1999, 82, 5217-5220.	2.9	21
110	Comparative study of superdeformed and highly deformed bands in the $A \approx 60$ mass region. <i>Physical Review C</i> , 1999, 59, 3166-3171.	1.1	71
111	Termination of rotational bands: disappearance of quantum many-body collectivity. <i>Physics Reports</i> , 1999, 322, 1-124.	10.3	293
112	Terminating high-spin bands in $^{101}\text{Rh}$ . <i>European Physical Journal A</i> , 1999, 4, 11-15.	1.0	11
113	Spin $\approx 1/2$ in $^{156}\text{Dy}$ : competition between collective and terminating structures at very high-spin. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 437, 35-43.	1.5	30
114	A smoothly terminating rotational band in Zn. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998, 422, 45-51.	1.5	34
115	Decreasing Collectivity in Smoothly Terminating Bands in the $A \approx 110$ Region. <i>Physical Review Letters</i> , 1998, 80, 1174-1177.	2.9	49
116	Smooth Termination of Rotational Bands in $^{62}\text{Zn}$ : Evidence for a Loss of Collectivity. <i>Physical Review Letters</i> , 1998, 80, 2558-2561.	2.9	63
117	Triaxial superdeformed bands in $^{86}\text{Zr}$ . <i>Physical Review C</i> , 1998, 57, R1-R5.	1.1	31
118	Band terminations in the doubly odd nucleus $^{102}\text{Rh}$ . <i>Il Nuovo Cimento A</i> , 1998, 111, 651-656.	0.1	0
119	Observation and Quadrupole-Moment Measurement of the First Superdeformed Band in the $A \approx 60$ Mass Region. <i>Physical Review Letters</i> , 1997, 79, 1233-1236.	2.9	91
120	Identification of excited states in doubly odd $^{110}\text{Sb}$ : Smooth band termination. <i>Physical Review C</i> , 1997, 55, R2127-R2131.	1.1	29
121	Collective structures and smooth band termination in $^{109}\text{Sn}$ . <i>Zeitschrift für Physik A</i> , 1996, 356, 235-237.	0.9	14
122	Superdeformation below $N=73$ . <i>Physical Review C</i> , 1996, 54, R454-R458.	1.1	22
123	Smooth Termination of Collective Rotational Bands. <i>Physical Review Letters</i> , 1995, 74, 3935-3938.	2.9	95
124	Single particle excitations and properties of multiple band terminations near spin $50\hbar$ in $^{158}\text{Er}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 327, 187-194.	1.5	72
125	The structure of the deformed nucleus $^{42}_{103}\text{Mo}61$ . <i>Zeitschrift für Physik A</i> , 1993, 346, 101-109.	0.9	11
126	Orbital and spin assignment of SD bands in the Dy/Gd region – identical bands. <i>Nuclear Physics A</i> , 1993, 557, 167-177.	0.6	106



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127	Triaxial deformation of odd-A Xe and Ba nuclides. Nuclear Physics A, 1993, 557, 439-448.	0.6	30
128	Signature splitting in odd-odd nuclei and the role of the proton-neutron residual interaction. AIP Conference Proceedings, 1992, . .	0.3	2
129	SYSTEMATICS OF SUPERDEFORMATION FROM A~8 TO A~248. International Journal of Modern Physics A, 1991, 06, 5057-5078.	0.5	4
130	Description of nuclear moments and nuclear spectra in the particle-rotor model. Hyperfine Interactions, 1988, 43, 423-440.	0.2	98
131	Spectroscopic Consequences of Shape Changes at High Angular Momenta. ACS Symposium Series, 1986, , 292-297.	0.5	0
132	Properties of Terminating Bands in Nuclei. Physica Scripta, 1986, 34, 651-668.	1.2	99
133	Microscopic study of the high-spin behaviour in selected A ~ 80 nuclei. Nuclear Physics A, 1985, 435, 397-447.	0.6	753
134	Rotational bands and particle-hole excitations at very high spin. Nuclear Physics A, 1985, 436, 14-82.	0.6	753
135	Crossings between unpaired rotational bands at I ~ 30 in the N ~ 90 region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 163, 31-36.	1.5	16
136	A new region of intrinsic reflection asymmetry in nuclei around 145Ba?. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 152, 284-290.	1.5	113
137	Analysis of octupole instability in medium-mass and heavy nuclei. Nuclear Physics A, 1984, 429, 269-295.	0.6	316
138	Shape Changes, Band Crossings and Band Terminations in the Very High Spin Region of A= 150-160 Nuclei. Physica Scripta, 1983, T5, 165-170.	1.2	101
139	A New Formalism for High Spin States Applied to the sd-Shell Region. Physica Scripta, 1981, 24, 215-235.	1.2	93
140	Nuclear shell structure at very high angular momentum. Nuclear Physics A, 1976, 268, 205-256.	0.6	504