

Ingemar Ragnarsson

List of Publications by Year in descending order

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140
papers

5,819
citations

136740

32
h-index

76769

74
g-index

140
all docs

140
docs citations

140
times ranked

1065
citing authors

#	ARTICLE	IF	CITATIONS
1	Microscopic study of the high-spin behaviour in selected A ≈ 80 nuclei. Nuclear Physics A, 1985, 435, 397-447.	0.6	753
2	Rotational bands and particle-hole excitations at very high spin. Nuclear Physics A, 1985, 436, 14-82.	0.6	753
3	Nuclear shell structure at very high angular momentum. Nuclear Physics A, 1976, 268, 205-256.	0.6	504
4	Analysis of octupole instability in medium-mass and heavy nuclei. Nuclear Physics A, 1984, 429, 269-295.	0.6	316
5	Termination of rotational bands: disappearance of quantum many-body collectivity. Physics Reports, 1999, 322, 1-124.	10.3	293
6	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
7	Orbital and spin assignment of SD bands in the Dy/Gd region – identical bands. Nuclear Physics A, 1993, 557, 167-177.	0.6	106
8	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
9	Calculating the nuclear mass in the very high angular momentum regime. Physical Review C, 2006, 74, .	1.1	101
10	Properties of Terminating Bands in Nuclei. Physica Scripta, 1986, 34, 651-668.	1.2	99
11	Decay Out of the Doubly Magic Superdeformed Band in the N=Z Nucleus ²⁶⁰ O. Physical Review Letters, 1999, 82, 3400-3403.	2.9	99
12	Description of nuclear moments and nuclear spectra in the particle-rotor model. Hyperfine Interactions, 1988, 43, 423-440.	0.2	98
13	Smooth Termination of Collective Rotational Bands. Physical Review Letters, 1995, 74, 3935-3938.	2.9	95
14	A New Formalism for High Spin States Applied to the sd-Shell Region. Physica Scripta, 1981, 24, 215-235.	1.2	93
15	Observation and Quadrupole-Moment Measurement of the First Superdeformed Band in the A ≈ 146 Mass Region. Physical Review Letters, 1997, 79, 1233-1236.	2.9	91
16	Possible chirality in the doubly-odd ¹¹⁹ Tl nucleus: Residual interaction at play. Physical Review C, 2008, 78, .	1.1	75
17	Single particle excitations and properties of multiple band terminations near spin 50 ħ in ¹⁵⁸ Er. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 327, 187-194.	1.5	72
18	Comparative study of superdeformed and highly deformed bands in the A ≈ 146 mass region. Physical Review C, 1999, 59, 3166-3171.	1.1	71

#	ARTICLE	IF	CITATIONS
19	Lifetimes of superdeformed rotational states in ^{36}Ar . Physical Review C, 2001, 63, .	1.1	71
20	Smooth Termination of Rotational Bands in ^{62}Zn : Evidence for a Loss of Collectivity. Physical Review Letters, 1998, 80, 2558-2561.	2.9	63
21	Return of Collective Rotation in ^{157}Er and ^{158}Er at Ultrahigh Spin. Physical Review Letters, 2007, 98, 012501.	2.9	62
22	Decreasing Collectivity in Smoothly Terminating Bands in the $A \approx 110$ Region. Physical Review Letters, 1998, 80, 1174-1177.	2.9	49
23	Evolution of shapes in ^{59}Cu . European Physical Journal A, 2002, 14, 317-348.	1.0	46
24	Evidence for Nontermination of Rotational Bands in ^{74}Kr . Physical Review Letters, 2005, 95, 232501.	2.9	44
25	Stable triaxiality at the highest spins in ^{138}Nd and ^{139}Nd . Physical Review C, 1999, 61, .	1.1	42
26	Triaxial shape with rotation around the longest principal axis in ^{142}Gd . Physical Review Letters, 2006, 97, 012501.	1.1	38
27	Excited States in ^{142}Gd and ^{142}Dy . Physical Review Letters, 2006, 97, 012501.	2.9	37
28	Terminating bands in $^{98,99,100}\text{Ru}$ nuclei: New information on the neutron $2d_{5/2}$ and $1g_{7/2}$ energy spacing. Physical Review C, 2000, 62, .	1.1	36
29	A smoothly terminating rotational band in ^{64}Zn . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 422, 45-51.	1.5	34
30	Yrast superdeformed band in ^{59}Cu . Physical Review C, 2000, 62, .	1.1	34
31	Signature Inversion Caused by Triaxiality and Unpaired Band Crossings in ^{72}r . Physical Review Letters, 2000, 85, 2454-2457.	2.9	33
32	Prompt proton decay and deformed bands in ^{56}Ni . Physical Review C, 2008, 77, .	1.1	32
33	Triaxial superdeformed bands in ^{86}Zr . Physical Review C, 1998, 57, R1-R5.	1.1	31
34	Quadrupole moments of collective structures up to spin $\hbar/2$ in ^{157}Er and ^{158}Er : A challenge for understanding triaxiality in nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 702, 127-130.	1.5	31
35	Triaxial deformation of odd-A Xe and Ba nuclides. Nuclear Physics A, 1993, 557, 439-448.	0.6	30
36	Spin $\hbar/2$ in ^{156}Dy : competition between collective and terminating structures at very high-spin. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 437, 35-43.	1.5	30

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37	Band terminations in ^{103}Pd . Physical Review C, 1999, 60, .	1.1	30
38	Identification of excited states in doubly odd ^{110}Sb : Smooth band termination. Physical Review C, 1997, 55, R2127-R2131.	1.1	29
39	Interpretation of the large-deformation high-spin bands in select ^{158}Lu nuclei. Physical Review C, 2012, 86, .	1.1	29
40	Structure of superheavy nuclei along decay chains of element 115. Physical Review C, 2014, 90, .	1.1	29
41	Triaxiality in ^{48}Cr . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 477, 66-72.	1.5	28
42	Thorough ^{13}Ni β -ray and particle decay investigations of ^{58}Ni . Physical Review C, 2009, 80, .	1.1	27
43	Evidence for noncollective oblate structures at high spin in ^{123}Cs . Physical Review C, 2004, 70, .	1.1	26
44	Very high rotational frequencies and band termination in ^{73}Br . Physical Review C, 2000, 62, .	1.1	25
45	^{58}Ni : An Unpaired Band Crossing at New Heights of Angular Momentum for Rotating Nuclei. Physical Review Letters, 2006, 96, 092501.	2.9	24
46	Interpretation of the high spin states in ^{161}Lu : A paired and unpaired study. Physical Review C, 2014, 90, .	1.1	23
47	Superdeformation below $N=73$. Physical Review C, 1996, 54, R454-R458.	1.1	22
48	Competition between terminating and collective structures above spin $40\hbar$ in ^{154}Dy . Physical Review C, 2002, 65, .	1.1	22
49	High-Spin Structure beyond Band Termination in ^{157}Er . Physical Review Letters, 2004, 92, 252502.	2.9	22
50	Structure changes in ^{160}Er from low to ultrahigh spin. Physical Review C, 2011, 83, .	1.1	22
51	High-fold β -ray spectroscopy of ^{117}I : Coexistence of collective and noncollective structures. Physical Review C, 1999, 59, 1984-1998.	1.1	21
52	New band structures and an unpaired crossing in ^{78}Kr . Physical Review C, 1999, 59, 655-664.	1.1	21
53	Superdeformation in ^{68}Zn : Evidence for a New, Neutron-Rich Island of Superdeformation in $A \approx 70$ Nuclei. Physical Review Letters, 1999, 82, 5217-5220.	2.9	21
54	Discrete line β -ray spectroscopy in the $(50 \leq Z \leq 60)$ spin domain of $^{161,162}\text{Er}$. Physical Review C, 2000, 62, .	1.1	21

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55	Six-quasiparticle isomer inNd140. Physical Review C, 2006, 74, .	1.1	21
56	Extensive \hat{I}^3 -ray spectroscopy of normally and superdeformed structures in 61 29Cu32. European Physical Journal A, 2008, 36, 251-278.	1.0	21
57	New shape minimum inYb160: Evidence for a triaxial, strongly deformed band. Physical Review C, 2008, 77, .	1.1	21
58	Loss of collectivity in the transitional $\langle \text{math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">Er \langle \text{mprescripts} / \rangle \langle \text{mrow} \rangle \langle \text{mn} \rangle 156 \langle \text{mn} \rangle \langle \text{mrow} \rangle \langle \text{mmultiscripts} \rangle \langle \text{math} \rangle \text{nucleus at high spin. Physical Review C, 2009, 79, .$	1.1	21
59	Noncollective aligned and antialigned states in125. Physical Review C, 2010, 82, .	1.1	21
60	Multiple triaxial bands in $\langle \text{math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">Nd \langle \text{mprescripts} / \rangle \langle \text{mrow} \rangle \langle \text{mn} \rangle 138 \langle \text{mn} \rangle \langle \text{mrow} \rangle \langle \text{mmultiscripts} \rangle \langle \text{math} \rangle \text{. Physical Review C, 2015, 91, .$	1.1	21
61	Smooth band termination at high spin in113l. Physical Review C, 2001, 64, .	1.1	20
62	Doorway States in the Gamma Decay-Out of the Yrast Superdeformed Band inCu59. Physical Review Letters, 2003, 91, 232502.	2.9	19
63	Candidate chiral bands in 198Tl. European Physical Journal A, 2010, 45, 39-50.	1.0	19
64	Evolution of collectivity and evidence of octupole correlations in $\langle \text{math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">Br \langle \text{mprescripts} / \rangle \langle \text{mrow} \rangle \langle \text{mn} \rangle 73 \langle \text{mn} \rangle \langle \text{mrow} \rangle \langle \text{mmultiscripts} \rangle \langle \text{math} \rangle \text{. Physical Review C, 2019, 100, .$		19
65	Triaxial strongly deformed bands inTm160,161. Physical Review C, 2008, 78, .	1.1	18
66	Comprehensive $\langle \text{math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mrow} \rangle \langle \text{mi} \rangle \hat{I}^3 \langle \text{mi} \rangle \langle \text{mrow} \rangle \langle \text{math} \rangle \text{-ray spectroscopy of rotational bands in the} \langle \text{math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> N \langle \text{mi} \rangle Z \langle \text{mi} \rangle \langle \text{mo} \rangle + \langle \text{mi} \rangle \langle \text{mo} \rangle \langle \text{mn} \rangle 1 \langle \text{mn} \rangle \langle \text{math} \rangle \text{. Physical Review C, 2009, 79, .$	1.1	18
67	Core excitations beyond maximally aligned configurations in123l. Physical Review C, 2012, 85, .	1.1	18
68	Characterization of superdeformed bands in $\langle \text{math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> Zn \langle \text{mprescripts} / \rangle \langle \text{mrow} \rangle \langle \text{mn} \rangle 62 \langle \text{mn} \rangle \langle \text{mrow} \rangle \langle \text{mmultiscripts} \rangle \langle \text{math} \rangle \text{. Physical Review C, 2009, 80, .$	1.1	17
69	$\langle \text{math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mi} \rangle \hat{I}^3 \langle \text{mi} \rangle \langle \text{math} \rangle \text{-ray spectroscopy of band structures in} \langle \text{math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> Zn \langle \text{math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{msub} \rangle \langle \text{mrow} \rangle \langle \text{mn} \rangle 30 \langle \text{mn} \rangle \langle \text{mn} \rangle 62 \langle \text{mn} \rangle \langle \text{msub} \rangle \langle \text{math} \rangle \text{Zn} \langle \text{math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{msub} \rangle \langle \text{mrow} \rangle \langle \text{mn} \rangle 32 \langle \text{mn} \rangle \langle \text{msub} \rangle \langle \text{math} \rangle \text{. Physical Review C, 2012, 86, .$	1.1	17
70	Crossings between unpaired rotational bands at $I \hat{\%}^{\circ} 30$ in the $N \hat{\%}^{\circ} 90$ region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1985, 163, 31-36.	1.5	16
71	Terminating bands in the doubly odd nucleus102Rh. Physical Review C, 1999, 59, R570-R574.	1.1	16
72	Rotational bands with terminating properties in59Ni. Physical Review C, 2002, 65, .	1.1	16

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73	High-spin structure inEr157up to and above band termination. Physical Review C, 2006, 73, .	1.1	16
74	Investigation of lifetimes in quadrupole bands of 142Gd. European Physical Journal A, 2008, 35, 135-158.	1.0	16
75	Evidence for shape coexistence at medium spin in 76Rb. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 701, 306-312.	1.5	16
76	Single-particle and collective excitations in ^{63}Ni . Physical Review C, 2013, 88, .	1.1	16
77	Switch from short-axis to intermediate-axis rotation in ^{138}Nd . Physical Review C, 2013, 88, .	1.1	15
78	Collective structures and smooth band termination in109Sn. Zeitschrift für Physik A, 1996, 356, 235-237.	0.9	14
79	Band terminations in the valence space of86Zr. Physical Review C, 2000, 61, .	1.1	14
80	Evidence for a1g9/2rotational band in51Mn. Physical Review C, 2002, 66, .	1.1	14
81	Highly deformed high-spin band in125I. Physical Review C, 2011, 84, .	1.1	14
82	High-spin spectroscopy of122I. Physical Review C, 2012, 85, .	1.1	14
83	High-spin states and band terminations inAs69. Physical Review C, 2004, 70, .	1.1	13
84	$\hat{\Gamma}^3$ -ray spectroscopy of neutron-deficientTe110. II. High-spin smooth-terminating structures. Physical Review C, 2007, 76, .	1.1	13
85	Transition strengths and band terminations in86Zr. Physical Review C, 2003, 67, .	1.1	12
86	Smooth terminating bands inTe112: Particle-hole induced collectivity. Physical Review C, 2007, 75, .	1.1	12
87	Single-particle and collective excitations in ^{62}Ni . Physical Review C, 2016, 94, .		12
88	The structure of the deformed nucleus 42 103 Mo61. Zeitschrift für Physik A, 1993, 346, 101-109.	0.9	11
89	Terminating high-spin bands in 101Rh. European Physical Journal A, 1999, 4, 11-15.	1.0	11
90	High-spin yrast states in the ^{135}Pr and ^{134}Ce . Physical Review C, 2011, 84, .	1.1	11

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91	Shape evolution and magnetic rotation in ^{141}Nd . European Physical Journal A, 2015, 51, 1.	1.0	11
92	Identification of excited states in ^{119}Ba . Physical Review C, 2000, 61, .	1.1	10
93	High-spin structure of $N_{\text{timeq}}Z$ nuclei around the $A = 72$ region. European Physical Journal A, 2003, 20, 131-132.	1.0	10
94	Isospin and deformation studies in the odd-odd $N=Z$ nucleus ^{54}Co . Physical Review C, 2010, 82, .	1.1	10
95	Revised level structure of ^{120}Te . Physical Review C, 2014, 90, .	1.1	10
96	Rotational structures and their evolution with spin in ^{152}Gd . Physical Review C, 2007, 75, .	1.1	9
97	Collective and noncollective excitations in ^{122}Te . Physical Review C, 2013, 88, .	1.1	9
98	Comparative study of rotational bands in the $A \approx 60$ mass region: Modification of Nilsson parameters. Physical Review C, 2014, 89, .	1.1	9
99	Evolution of collective and noncollective structures in ^{123}Xe . Physical Review C, 2020, 101, .	1.1	9
100	Highly deformed rotational structures in ^{136}Pm . Physical Review C, 2000, 62, .	1.1	8
101	Lifetime measurements and terminating structures in ^{87}Nb . Physical Review C, 2003, 67, .	1.1	8
102	Coulomb excitation of ^{242}Am isomeric target. Physical Review C, 2017, 96, .	1.1	8
103	Quantum-state-selective decay spectroscopy of ^{213}Ra . Physical Review C, 2017, 96, .	1.1	8
104	THE NUCLEAR MASS AT FINITE ANGULAR MOMENTA. International Journal of Modern Physics E, 2004, 13, 87-96.	0.4	7
105	High-spin rotational bands in ^{123}I . Physical Review C, 2012, 86, .	1.1	7
106	Observation of rotation about the longest principal axis in ^{89}Zr . Physical Review C, 2019, 99, .	1.1	7
107	Shape Coexistence, Triaxial Shape and Band Terminations at High Spin. Acta Physica Polonica B, 2015, 46, 477.	0.3	6
108	Interpretation of normal-deformed bands in ^{167}Lu . Physical Review C, 2020, 101, .	1.1	6

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127	Highly deformed band structures due to core excitations in Xe123. Physical Review C, 2021, 103, .	1.1	2
128	Spectroscopic Consequences of Shape Changes at High Angular Momenta. ACS Symposium Series, 1986, , 292-297.	0.5	0
129	Collective dipole bands in [^{110,112} Te]: Stability against magnetic rotation. , 1999, , .		0
130	Smooth band termination in the mass A=110 region. , 1999, , .		0
131	Complete spectroscopy in high-spin cranking calculations. European Physical Journal A, 2003, 20, 35-36.	1.0	0
132	Competing decay-out mechanisms of the yrast superdeformed band in 59Cu. AIP Conference Proceedings, 2004, , .	0.3	0
133	Nuclear binding energy at high spin. AIP Conference Proceedings, 2006, , .	0.3	0
134	Classification of Superdeformed Bands in the Mass A ^{1/4} 60 Region. , 2008, , .		0
135	Low-, medium-, and high-spin states in the N=Z+1 nucleus Ga63. Physical Review C, 2021, 103, .	1.1	0
136	SIGNATURE INVERSION CAUSED BY TRIAXIALITY IN ⁷² BR AND BAND TERMINATION IN ⁷³ BR. , 2001, , .		0
137	TERMINATING ROTATIONAL BANDS IN NUCLEI. , 2012, , .		0
138	EXOTIC BEHAVIOR AT ULTRAHIGH SPIN VALUES IN LIGHT RARE-EARTH N~90 NUCLEI. , 2013, , .		0
139	PAIRING CORRELATIONS AT HIGH SPINS. , 2016, , .		0
140	Band terminations in the doubly odd nucleus 102Rh. Il Nuovo Cimento A, 1998, 111, 651-656.	0.1	0