

# Alexandru Iordachescu

## List of Publications by Year in descending order

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92  
papers

1,261  
citations

394421

19  
h-index

454955

30  
g-index

93  
all docs

93  
docs citations

93  
times ranked

666  
citing authors

#	ARTICLE	IF	CITATIONS
1	Spectroscopy of neutron-rich Fe isotopes populated in the $^{64}\text{Ni}$ nucleus. Physical Review C, 2004, 70, .	2.9	94
2	Stability of the $N=50$ shell gap in the neutron-rich Rb, Br, Se, and Ge isotones. Physical Review C, 2004, 70, .	2.9	62
3	Spectroscopy of odd-mass cobalt isotopes toward the $N=40$ subshell. Physical Review C, 2012, 85, .	2.9	61
4	Structure of $^{125}\text{Sn}$ and $^{127}\text{Sn}$ isomers in $^{125}\text{Sn}$ and $^{129}\text{Sn}$ and isomer systematics of $^{125}\text{Sn}$ and $^{129}\text{Sn}$ . Physical Review C, 2008, 77, .	2.9	56
5	Shape transitions far from stability: The nucleus $^{58}\text{Cr}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 633, 696-700.	4.1	54
6	Spectroscopy of neutron-rich $^{59}\text{Mn}$ and $^{63}\text{Mn}$ nuclei. Physical Review C, 2008, 78, .	2.9	47
7	STRUCTURE OF NEUTRON-RICH NUCLEI FROM DEEP INELASTIC REACTIONS. International Journal of Modern Physics E, 2004, 13, 123-126.	1.0	45
8	Yrast isomers in $^{95}\text{Ag}$ , $^{95}\text{Pd}$ , and $^{94}\text{Pd}$ . Physical Review C, 2003, 67, .	2.9	32
9	Observation of the $N=Z=44$ nucleus. Physical Review C, 2001, 63, .	2.9	30
10	Delayed alignments in the $N=Z$ nuclei $^{84}\text{Mo}$ and $^{88}\text{Ru}$ . Physical Review C, 2002, 65, .	2.9	29
11	Isospin symmetry breaking at high spin in the mirror nuclei $^{35}\text{Ar}$ and $^{35}\text{Cl}$ . Physical Review C, 2007, 75, .	2.9	28
12	Evolution from spherical to various deformed shapes in the odd-odd $^{59}\text{Pr}$ nucleus. Nuclear Physics A, 1996, 603, 50-76.	1.5	27
13	High spin structure of $^{53}\text{Fe}$ and the proton-neutron coupling of intruder states. Physical Review C, 2005, 71, .	2.9	27
14	High spin structure and intruder configurations in $^{31}\text{P}$ . Physical Review C, 2006, 73, .	2.9	27
15	Electromagnetic transitions and structure in the $Z=N$ nucleus $^{46}\text{V}$ . Physical Review C, 2001, 64, .	2.9	24
16	Shape coexistence in neutron-deficient Pb nuclei probed by quadrupole moment measurements. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 650, 141-147.	4.1	23
17	High-spin states in the nuclei $^{91}\text{Y}$ and $^{95}\text{Nb}$ . Physical Review C, 2005, 71, .	2.9	22
18	Quadrupole moments of high spin isomeric states in Sn isotopes. Hyperfine Interactions, 1976, 2, 326-328.	0.5	21

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19	Evolution of collectivity along the $N=Z$ line: The $^{84}\text{Mo}$ nucleus. <i>Physical Review C</i> , 1997, 56, 2497-2501.	2.9	19
20	Two high-spin isomeric states in $^{112}\text{In}$ . <i>Nuclear Physics A</i> , 1976, 272, 1-10.	1.5	18
21	High-spin behavior of multiple bands in the $N=Z+1$ nucleus $^{81}\text{Zr}$ : A possible probe of enhanced neutron-proton correlations. <i>Physical Review C</i> , 2004, 69, .	2.9	17
22	Yrast studies of $^{80,82}\text{Se}$ using deep-inelastic reactions. <i>Physical Review C</i> , 2007, 76, .	2.9	17
23	First identification of yrast decay and shell model description of the $N=Z+1$ nucleus $^{93}\text{Pd}$ . <i>Physical Review C</i> , 2004, 69, .	2.9	16
24	Investigation of a 290 ns $\hat{\alpha}^{\sim}$ isomeric state in $^{117}\text{Sb}$ and evidence for shape coexistence. <i>Nuclear Physics A</i> , 1987, 466, 317-332.	1.5	15
25	Investigation of a short-lived isomeric state in $^{115}\text{Te}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1972, 42, 54-56.	4.1	14
26	First observation of excited states in the $T_z=1/2$ nucleus $^{85}\text{Mo}$ . <i>Physical Review C</i> , 2002, 65, .	2.9	14
27	Quadrupole moments and $g$ factors for high-spin neutron isomers in $^{193}\text{Pb}$ . <i>Physical Review C</i> , 2004, 70, .	2.9	14
28	The magnetic moment of the $22\ \hat{1}/4s$ isomeric state in $^{38}\text{K}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1974, 48, 28-30.	4.1	13
29	Static quadrupole moment of the $8\hat{\alpha}^{\sim}$ state of $^{112}\text{In}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1976, 64, 36-38.	4.1	13
30	High-spin structure of $^{137}\text{Ba}$ and $^{137}\text{La}$ and the $37\hat{\alpha}^{\sim}$ isomeric state in $^{137}\text{Ba}$ . <i>Physical Review C</i> , 2004, 69, 054301.	2.9	13
31	In-beam gamma-ray spectroscopy and shell-model description of $^{85,86}\text{Y}$ isotopes. <i>Nuclear Physics A</i> , 2009, 818, 1-35.	1.5	13
32	$g$ -factor measurements at RISING: The cases of $^{127}\text{Sn}$ and $^{128}\text{Sn}$ . <i>Europhysics Letters</i> , 2010, 91, 42001.	2.0	13
33	Electromagnetic moment investigation of two short-lived isomeric states in $^{118}\text{Sb}$ . <i>Zeitschrift für Naturphysik A</i> , 1985, 320, 613-620.	1.4	12
34	$g$ factors of the $14^+$ and $14^-$ isomers in $^{175,176}\text{W}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 495, 289-294.	4.1	12
35	$g$ factors of coexisting isomeric states in $^{188}\text{Pb}$ . <i>Physical Review C</i> , 2010, 81, .	2.9	12
36	Excited states in $^{91}\text{Nb}$ populated in the $^{89}\text{Y}(\hat{1}\pm, 2n\hat{1}^3)$ reaction. <i>European Physical Journal A</i> , 1974, 269, 117-123.	2.5	11

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37	Spin-parity, lifetime and magnetic moment of a short-lived isomeric state in $^{118}\text{Sb}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1975, 57, 235-237.	4.1	11
38	Nuclear structure and high-spin states of $^{137}\text{Pr}$ . Nuclear Physics A, 1992, 548, 435-452.	1.5	11
39	High-spin state spectroscopy in $^{143}\text{Tb}$ . Physical Review C, 1999, 60, .	2.9	11
40	High-spin states in the odd-odd nucleus $^{80}\text{Y}$ . Nuclear Physics A, 2002, 705, 3-28.	1.5	11
41	Spectroscopic quadrupole moments of high-spin isomers in $^{193}\text{Pb}$ . European Physical Journal A, 2003, 20, 191-192.	2.5	11
42	Spin, lifetime and magnetic moment of a new isomeric state in $^{120}\text{Sb}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1976, 64, 151-153.	4.1	10
43	Spin, lifetime and magnetic moment of a new isomeric state in $^{121}\text{Te}$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1980, 90, 65-67.	4.1	10
44	Quadrupole moments of the $7+$ isomers in $^{117}$ , $^{118}\text{Sb}$ and the deformation induced by the proton-hole intruder state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 200, 259-262.	4.1	10
45	Investigation of radiation damage by Larmor precession of $^{112}\text{In}$ in Ag. Hyperfine Interactions, 1981, 11, 71-76.	0.5	9
46	Investigation of the system TeSn by the combined hyperfine interaction method. Hyperfine Interactions, 1982, 12, 307-316.	0.5	9
47	Decay properties and magnetic moment of the 548 keV level in $^{136}\text{Pr}$ . Nuclear Physics A, 1993, 562, 260-272.	1.5	9
48	Structure of the odd-odd-nucleus $^{84}\text{Nb}$ . European Physical Journal A, 1999, 4, 311-312.	2.5	9
49	High-spin states in $^{90}\text{Ru}$ and the projected shell model description. Physical Review C, 2004, 69, .	2.9	9
50	Static electromagnetic moments and nuclear shapes in $^{129,131}\text{Ce}$ . Nuclear Physics A, 1998, 633, 459-478.	1.5	8
51	Spin, quadrupole moment, and deformation of the magnetic-rotational band head in $^{193}\text{Pb}$ . Physical Review C, 2011, 83, .	2.9	8
52	Lifetime measurements in the chiral-candidate doublet bands of $^{130}\text{La}$ . Physical Review C, 2018, 98, .	2.9	8
53	Electromagnetic moments of an isometric intruder state in $^{119}\text{Sb}$ . Nuclear Physics A, 1991, 531, 112-124.	1.5	7
54	High-spin state spectroscopy of $^{143}\text{Dy}$ . Physical Review C, 2000, 62, .	2.9	7

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55	Population of yrast states in $^{191}\text{Os}$ using deep-inelastic reactions. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, S1891-S1894.	3.6	7
56	Identification of excited states and shell model description of the $N=Z+1$ nucleus $^{91}\text{Rh}$ . <i>Physical Review C</i> , 2005, 72, .	2.9	7
57	Decay scheme and magnetic moment of a new isomeric state in $^{86}\text{Y}$ . <i>Physical Review C</i> , 2000, 62, .	2.9	6
58	First identification of excited states in the $N=Z+1$ nucleus $^{89}\text{Ru}$ . <i>Physical Review C</i> , 2004, 70, .	2.9	6
59	Lifetime measurements in mirror nuclei $^{31}\text{S}$ and $^{31}\text{P}$ : A test for isospin mixing. <i>Journal of Physics: Conference Series</i> , 2011, 267, 012048.	0.4	6
60	First allowed bandcrossing in neutron deficient nucleus $^{141}\text{Tb}$ . <i>Brazilian Journal of Physics</i> , 2004, 34, 1002-1004.	1.4	6
61	Half-lives and magnetic moments of two high spin states in $^{112}\text{In}$ . <i>Hyperfine Interactions</i> , 1976, 2, 324-325.	0.5	5
62	Quadrupole interaction of $^{120}\text{Sb}$ in metallic tin. <i>Hyperfine Interactions</i> , 1979, 7, 241-246.	0.5	5
63	Electromagnetic moments of the $7+$ rotational bandhead in $^{116}\text{Sb}$ . <i>Zeitschrift für Physik A</i> , 1992, 343, 21-24.	0.9	5
64	Quadrupole moment of the $J^\pi=7^+$ isomer in $^{130}\text{Ce}$ . <i>Physical Review C</i> , 1999, 60, .	2.9	5
65	Isospin Symmetry Along The $N=Z$ Line In The $sd$ Shell. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	5
66	YRST STATES IN $^{188,190}\text{Os}$ NUCLEI. <i>International Journal of Modern Physics E</i> , 2006, 15, 1797-1802.	1.0	5
67	High-spin structure of $^{95}\text{Pd}$ . <i>Physical Review C</i> , 2012, 86, .	2.9	5
68	Structure of $^{130}\text{La}$ at low and medium spins. <i>Physical Review C</i> , 2014, 90, .	2.9	5
69	The $g$ -factors of the isomeric states in $^{117}\text{Te}$ and $^{123}\text{Te}$ . <i>Hyperfine Interactions</i> , 1981, 9, 71-74.	0.5	4
70	The $h_{11/2}^{\pm} - \frac{1}{2}h_{11/2}$ yrast band in odd-odd $^{140}\text{Tb}$ . <i>Physical Review C</i> , 2000, 62, .	2.9	4
71	New nuclei around the $N=Z$ line in the $A = 80-90$ Region. <i>Progress in Particle and Nuclear Physics</i> , 2001, 46, 269-270.	14.4	4
72	Quadrupole moment of the $K^\pi=14+$ isomer in $^{176}\text{W}$ . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2002, 541, 219-226.	4.1	4

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73	New short-lived isomers in $^{84}\text{Y}$ . <i>Physical Review C</i> , 2005, 72, .	2.9	4
74	Isomerism of low-lying states in $^{86}\text{Y}$ . <i>European Physical Journal A</i> , 2010, 44, 31-41.	2.5	4
75	Toward the $Z=40$ sub-shell closure in Co isotopes and the new island of inversion. <i>Physica Scripta</i> , 2012, T150, 014034.	2.5	4
76	Band structures, lifetimes, and shape coexistence in $^{130}\text{La}$ . <i>Physical Review C</i> , 2020, 102, .	2.9	4
77	Low-lying four-quasiparticle state in $^{82}\text{Rb}$ . <i>Zeitschrift für Physik A</i> , 1996, 355, 347-348.	0.9	3
78	Lattice damage at recoil tin impurity in metallic cadmium. <i>Hyperfine Interactions</i> , 1981, 11, 171-175.	0.5	2
79	Reinvestigation of the decay scheme of the short-lived isomeric states in $^{112}\text{In}$ . <i>Zeitschrift für Physik A, Atomic Nuclei</i> , 1990, 336, 291-296.	0.3	2
80	Magnetic moment of the 96.7 keV $9/2^+$ level in $^{79}\text{Rb}$ . <i>Zeitschrift für Physik A</i> , 1994, 349, 129-131.	0.9	2
81	Lifetime Measurements of Spherical and Deformed States in $1f_{7/2}$ Nuclei. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2002, 16, 65-74.	0.4	2
82	The g-factors of the $3^+$ and $6^+$ states in $^{124}\text{Sb}$ . <i>Hyperfine Interactions</i> , 1981, 9, 75-79.	0.5	1
83	Quadrupole moment of the $7^+$ isomeric state in $^{112}\text{In}$ . <i>Hyperfine Interactions</i> , 1993, 77, 111-117.	0.5	1
84	High-K band in $^{140}\text{Gd}$ . <i>Brazilian Journal of Physics</i> , 2006, 36, 1371-1374.	1.4	1
85	Multinucleon Transfer Reactions to Study Single-Particle Evolution in Se Isotopes. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	1
86	High-spin states populated in deep-inelastic reactions. <i>Brazilian Journal of Physics</i> , 2004, 34, 792-795.	1.4	1
87	Lifetime measurements and evidence for triaxial nuclear shapes in $^{137}\text{Cs}$ . <i>Physical Review C</i> , 2021, 104, .		1
88	Nuclear Structure and Reaction Mechanism Studies with Multinucleon Reactions. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
89	Shape Coexistence in Pb Nuclei Probed by Static Electromagnetic Moments. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
90	In-Beam Gamma-ray Spectroscopy in the $^{37}\text{Ar}$ Nucleus. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	0

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91	Coulomb energy differences in isobaric multiplets. AIP Conference Proceedings, 2007, , .	0.4	0
92	Spectroscopy of neutron-rich Co nuclei populated in the $^{70}\text{Zn}+^{238}\text{U}$ reaction. Journal of Physics: Conference Series, 2012, 381, 012082.	0.4	0