

# Vladimir Zelevinsky

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

1,427  
citations

471509

17  
h-index

315739

38  
g-index

85  
all docs

85  
docs citations

85  
times ranked

768  
citing authors

#	ARTICLE	IF	CITATIONS
1	The nuclear shell model as a testing ground for many-body quantum chaos. Physics Reports, 1996, 276, 85-176.	25.6	391
2	Continuum shell model. Physical Review C, 2006, 74, .	2.9	121
3	Super-radiant dynamics, doorways and resonances in nuclei and other open mesoscopic systems. Reports on Progress in Physics, 2011, 74, 106301.	20.1	95
4	QUANTUM CHAOS AND COMPLEXITY IN NUCLEI. Annual Review of Nuclear and Particle Science, 1996, 46, 237-279.	10.2	92
5	Nuclear structure, random interactions and mesoscopic physics. Physics Reports, 2004, 391, 311-352.	25.6	77
6	Chaotic Wave Functions and Exponential Convergence of Low-Lying Energy Eigenvalues. Physical Review Letters, 1999, 82, 2064-2067.	7.8	64
7	Simple mode on a highly excited background: Collective strength and damping in the continuum. Physical Review C, 1997, 56, 311-323.	2.9	58
8	Spin- and parity-dependent nuclear level densities and the exponential convergence method. Physical Review C, 2003, 67, .	2.9	44
9	White paper: from bound states to the continuum. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 123001.	3.6	38
10	Improved treatment of ground-state correlations: Modified random phase approximation. Physical Review C, 2001, 64, .	2.9	36
11	Invariant correlational entropy as a signature of quantum phase transitions in nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 574, 27-34.	4.1	32
12	Nuclear level density: Shell-model approach. Physical Review C, 2016, 93, .	2.9	30
13	Nuclear level density, thermalization, chaos, and collectivity. Progress in Particle and Nuclear Physics, 2019, 105, 180-213.	14.4	26
14	Continuum shell model and nuclear physics at the edge of stability. Physics of Atomic Nuclei, 2014, 77, 969-982.	0.4	25
15	Random interactions explore the nuclear landscape: Predominance of prolate nuclear deformations. Physical Review C, 2010, 81, .	2.9	23
16	Expanding Nuclear Physics Horizons with the Gamma Factory. Annalen Der Physik, 2022, 534, .	2.4	21
17	Neutron Resonance Widths and the Porter-Thomas Distribution. Physical Review Letters, 2015, 115, 052501.	7.8	18
18	Super-radiance and the width of exotic baryons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 590, 45-50.	4.1	17

#	ARTICLE	IF	CITATIONS
19	Nuclear shape transitions, level density, and underlying interactions. Physical Review C, 2016, 94, .	2.9	17
20	“Super-radiant” states and narrow resonances in the $\pi$ -nucleus system. Physical Review C, 2002, 65, .	2.9	15
21	Pairing phase transitions in nuclear wave functions. Physical Review C, 2007, 75, .	2.9	15
22	Nuclear Schiff moment and soft vibrational modes. Physical Review C, 2008, 78, .	2.9	14
23	High-lying single-particle modes, chaos, correlational entropy, and doubling phase transition. Physical Review C, 2004, 70, .	2.9	13
24	Quantum phase transitions and collective enhancement of level density in odd-A and odd-odd nuclei. Nuclear Physics A, 2017, 962, 46-60.	1.5	13
25	Decay through a doorway state and the puzzle of $T_{\alpha}$ . Physical Review C, 2014, 90, .	2.9	12
26	Constant temperature model for nuclear level density. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 783, 428-433.	4.1	11
27	Quantum signal transmission through a single-qubit chain. European Physical Journal B, 2013, 86, 1.	1.5	10
28	Level density of the sd-nuclei – Statistical shell-model predictions. Atomic Data and Nuclear Data Tables, 2018, 120, 1-120.	2.4	10
29	Quasielastic knockout of alpha clusters by intermediate energy protons: Signatures of virtually excited states. Physical Review C, 1997, 55, 302-317.	2.9	9
30	Four neutrons together momentarily. Nature, 2016, 532, 449-449.	27.8	9
31	Nuclear shell model and level density. International Journal of Modern Physics E, 2020, 29, 2030005.	1.0	9
32	Environment-protected solid-state-based distributed charge qubit. Physical Review B, 2016, 94, .	3.2	8
33	Nuclear structure features of Gamow-Teller excitations. Physical Review C, 2017, 96, .	2.9	8
34	Nuclear level density and related physics. EPJ Web of Conferences, 2018, 194, 01001.	0.3	7
35	Do hadronic charge exchange reactions measure electroweak L=1 strength?. Physical Review C, 2001, 65, .	2.9	6
36	$^{45}\text{V}(p, \hat{1}^3)$ thermonuclear reaction rate relevant to $^{44}\text{Ti}$ production in core-collapse supernovae: General estimates and shell model analysis. Physical Review C, 2002, 66, .	2.9	6

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37	Nuclear Matrix Elements for Tests of Local Lorentz Invariance Violation. <i>Physical Review Letters</i> , 2017, 119, 192504.	7.8	5
38	Short-range repulsion and symmetry of two-body wave functions. <i>American Journal of Physics</i> , 1998, 66, 247-251.	0.7	4
39	NUCLEAR LEVEL DENSITY, QUANTUM CHAOS AND RELATED PHYSICS. <i>Journal of Physics: Conference Series</i> , 2018, 966, 012032.	0.4	4
40	Superradiance in a two-channel quantum wire. , 2014, , .		3
41	Dipole resonances and the nuclear Schiff moment. <i>Physical Review C</i> , 2012, 86, .	2.9	2
42	Pairing Beyond BCS. , 2013, , 73-88.		2
43	Exploring dynamics of unstable many-body systems. <i>AIP Conference Proceedings</i> , 2014, , .	0.4	2
44	SPARTAK T. BELYAEV â€™ RECIPIENT OF THE FEENBERG MEDAL. <i>International Journal of Modern Physics B</i> , 2006, 20, 2574-2578.	2.0	1
45	The curious case of tantalum 180. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	1
46	Atomic Nucleus as Chaotic Quantum Many-Body System. <i>Acta Physica Polonica A</i> , 2015, 128, 1008-1016.	0.5	1
47	Nuclear Shell Model and Level Density. <i>Springer Proceedings in Physics</i> , 2021, , 123-131.	0.2	1
48	Chaos, spins and symmetries in nuclear structure. <i>European Physical Journal D</i> , 2002, 52, C527-C552.	0.4	0
49	Order Generated by Random Many-Body Dynamics. <i>Acta Physica Hungarica A Heavy Ion Physics</i> , 2004, 19, 221-225.	0.4	0
50	Nuclear Level Density, Quantum Chaos and Thermalization. , 2015, , .		0
51	Physics of thermalization and level density in an isolated system of strongly interacting particles. <i>European Physical Journal: Special Topics</i> , 2021, 230, 755-769.	2.6	0
52	OF A SUPERIOR BREED. , 2002, , .		0
53	SPARTAK T. BELYAEV â€™ RECIPIENT OF THE FEENBERG MEDAL. , 2006, , .		0
54	RANDOM INTERACTIONS AND GROUND STATE SPIN OF FINITE FERMI SYSTEMS. , 2006, , .		0

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55	FROM SUPER-RADIANCE TO CONTINUUM SHELL MODEL. , 2006, , .		0
56	Nuclear Matrix Elements for Tests of Fundamental Symmetries. , 2017, , .		0
57	On Broken Symmetry. Inference, 2019, 4, .	0.0	0