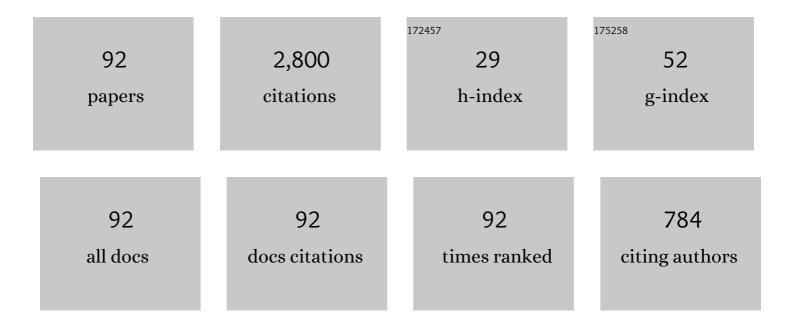
Pavel Cejnar

List of Publications by Year in descending order

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DAVIEL CEINAD

#	Article	IF	CITATIONS
1	Quantum phase transitions in the shapes of atomic nuclei. Reviews of Modern Physics, 2010, 82, 2155-2212.	45.6	458
2	Excited state quantum phase transitions in many-body systems. Annals of Physics, 2008, 323, 1106-1135.	2.8	231
3	Quantum phase transitions in the interacting boson model. Progress in Particle and Nuclear Physics, 2009, 62, 210-256.	14.4	174
4	Triple Point of Nuclear Deformations. Physical Review Letters, 2002, 89, 182502.	7.8	115
5	Monodromy and excited-state quantum phase transitions in integrable systems: collective vibrations of nuclei. Journal of Physics A, 2006, 39, L515-L521.	1.6	107
6	Excited-state phase transition and onset of chaos in quantum optical models. Physical Review E, 2011, 83, 046208.	2.1	97
7	Excited-state quantum phase transitions in systems with two degrees of freedom: Level density, level dynamics, thermal properties. Annals of Physics, 2014, 345, 73-97.	2.8	90
8	Quantum quench influenced by an excited-state phase transition. Physical Review A, 2011, 83, .	2.5	84
9	Coulomb Analogy for Non-Hermitian Degeneracies near Quantum Phase Transitions. Physical Review Letters, 2007, 99, 100601.	7.8	68
10	Phase structure of interacting boson models in arbitrary dimension. Journal of Physics A: Mathematical and Theoretical, 2007, 40, 581-595.	2.1	65
11	Impact of quantum phase transitions on excited-level dynamics. Physical Review E, 2008, 78, 031130.	2.1	65
12	Excited-state quantum phase transitions in systems with two degrees of freedom: II. Finite-size effects. Annals of Physics, 2015, 356, 57-82.	2.8	58
13	Excited-state quantum phase transitions. Journal of Physics A: Mathematical and Theoretical, 2021, 54, 133001.	2.1	58
14	Quantum phase transitions studied within the interacting boson model. Physical Review E, 2000, 61, 6237-6247.	2.1	50
15	Ground-state shape phase transitions in nuclei: Thermodynamic analogy and finite-Neffects. Physical Review C, 2003, 68, .	2.9	45
16	Classical and quantum properties of the semiregular arc inside the Casten triangle. Physical Review C, 2007, 75, .	2.9	45
17	Evolution of spectral properties along the O(6)-U(5) transition in the interacting boson model. I. Level dynamics. Physical Review C, 2006, 73, .	2.9	44
18	Facility and method for studying two-step Î ³ cascades in thermal neutron capture. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1996, 376, 434-442.	1.6	43

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19	Quantum quench dynamics in Dicke superradiance models. Physical Review A, 2018, 98, .	2.5	42
20	Wave-function entropy and dynamical symmetry breaking in the interacting boson model. Physical Review E, 1998, 58, 387-399.	2.1	41
21	Thermodynamic analogy for quantum phase transitions at zero temperature. Physical Review C, 2005, 71, .	2.9	40
22	Classification of excited-state quantum phase transitions for arbitrary number of degrees of freedom. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 2637-2643.	2.1	40
23	Dynamical-symmetry content of transitional IBM-1 hamiltonians. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1998, 420, 241-247.	4.1	39
24	Collective performance of a finite-time quantum Otto cycle. Physical Review E, 2019, 100, 042126.	2.1	38
25	Test of photon strength functions by a method of two-step cascades. Physical Review C, 1992, 46, 1276-1287.	2.9	36
26	Evolution of spectral properties along the O(6)-U(5) transition in the interacting boson model. II. Classical trajectories. Physical Review C, 2006, 73, .	2.9	34
27	E1 andM1 strengths studied from two-step γ cascades following capture of thermal neutrons inDy162. Physical Review C, 1995, 52, 1278-1294.	2.9	32
28	Phase coexistence in the interacting boson model and152Sm. Physical Review C, 1999, 60, .	2.9	32
29	Experimental Confirmation of the Alhassid-Whelan Arc of Regularity. Physical Review Letters, 2004, 93, 132501.	7.8	30
30	Quantum chaos in the nuclear collective model: Classical-quantum correspondence. Physical Review E, 2009, 79, 046202.	2.1	29
31	Landau Theory of Shape Phase Transitions in the Cranked Interacting Boson Model. Physical Review Letters, 2003, 90, 112501.	7.8	28
32	Rotation-driven spherical-to-deformed shape transition in Aâ‰^100 nuclei and the cranked interacting boson model. Physical Review C, 2004, 69, .	2.9	27
33	Quantum chaos in the nuclear collective model. II. Peres lattices. Physical Review E, 2009, 79, 066201.	2.1	27
34	Excited-state quantum phase transitions in systems with two degrees of freedom. III. Interacting boson systems. Physical Review C, 2019, 99, .	2.9	26
35	Prolate–oblate shape-phase transition in the O(6) description of nuclear rotation. Nuclear Physics A, 2006, 765, 97-111.	1.5	25
36	Transition from ^{î3} -rigid to ^{î3} -soft dynamics in the interacting boson model: Quasicriticality and quasidynamical symmetry. Physical Review C, 2009, 80, .	2.9	25

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37	Regularity-Induced Separation of Intrinsic and Collective Dynamics. Physical Review Letters, 2010, 105, 072503.	7.8	24
38	Quantum phases and entanglement properties of an extended Dicke model. Annals of Physics, 2017, 382, 85-111.	2.8	23
39	Decoherence and thermalization in a simple bosonic system. Physical Review E, 2001, 63, 036127.	2.1	21
40	On nuclear spin determinations from statistical feeding intensities in (particle, xn) fusion reactions. Nuclear Physics A, 1993, 554, 246-256.	1.5	19
41	Occurrence of high-lying rotational bands in the interacting boson model. Physical Review C, 2010, 82, .	2.9	17
42	Regular and Chaotic Vibrations of Deformed Nuclei with Increasing ^î 3Rigidity. Physical Review Letters, 2004, 93, 102502.	7.8	16
43	Classical chaos in the geometric collective model. Physical Review C, 2006, 74, .	2.9	16
44	Quantum phase transitions in the collective degrees of freedom: nuclei and other many-body systems. Physica Scripta, 2016, 91, 083006.	2.5	16
45	Monte Carlo analysis of (α,xnγ)-feeding intensities in Cd nuclei. Nuclear Physics A, 1993, 561, 317-342.	1.5	14
46	Monodromy in Dicke superradiance. Journal of Physics A: Mathematical and Theoretical, 2017, 50, 315205.	2.1	14
47	Shape phase transitions in rotating nuclei via cranking the interacting boson model. Physical Review C, 2002, 65, .	2.9	13
48	Exceptional points near first- and second-order quantum phase transitions. Physical Review E, 2018, 97, 012112.	2.1	13
49	Excited-state quantum phase transitions in finite many-body systems. Physica Scripta, 2015, 90, 114015.	2.5	8
50	Heat capacity for systems with excited-state quantum phase transitions. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 984-990.	2.1	8
51	Stabilization of product states and excited-state quantum phase transitions in a coupled qubit-field system. Physical Review A, 2021, 104, .	2.5	8
52	Quasiclassical approach to quantum quench dynamics in the presence of an excited-state quantum phase transition. Physical Review A, 2021, 103, .	2.5	7
53	Two-step gamma cascades following thermal-neutron capture in 143,145Nd. Physica Scripta, 1995, T56, 253-255.	2.5	5
54	Universal anharmonicity and vibrational anomaly in nuclei. Physical Review C, 2001, 63, .	2.9	5

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55	Understanding chaos via nuclei. , 2014, , .		5
56	Complex Density of Continuum States in Resonant Quantum Tunneling. Physical Review Letters, 2020, 125, 020401.	7.8	5
57	Calculation of the spin deorientation in $(\hat{l}_{\pm}, 2n\hat{l}^3)$ reactions. Nuclear Physics A, 1996, 602, 225-243.	1.5	4
58	Should the Casten triangle be a pentagon?. Journal of Physics G: Nuclear and Particle Physics, 1999, 25, 843-845.	3.6	4
59	Parameter symmetries of quantum many-body systems. Physical Review C, 2001, 64, .	2.9	4
60	Microscopic framework for dynamical supersymmetry in nuclei. Physical Review C, 2002, 65, .	2.9	4
61	Chaotic dynamics in collective models of nuclei. Journal of Physics: Conference Series, 2010, 239, 012002.	0.4	4
62	Static vs. dynamic phases of quantum many-body systems. AIP Conference Proceedings, 2019, , .	0.4	4
63	Angular distributions of γ-rays from four resonances of the55Mn(p, γ)56Fe reaction. European Physical Journal D, 1992, 42, 499-512.	0.4	3
64	PERES LATTICES IN NUCLEAR STRUCTURE. International Journal of Modern Physics E, 2009, 18, 1058-1061.	1.0	3
65	Regular and Chaotic Collective Modes in Nuclei. Nuclear Physics News, 2011, 21, 22-27.	0.4	3
66	Superradiance in finite quantum systems randomly coupled to continuum. Physical Review E, 2019, 100, 042119.	2.1	3
67	Continuum analogs of excited-state quantum phase transitions. Physical Review A, 2021, 103, .	2.5	3
68	Dynamical and invariant supersymmetry in the fermion pairing problem. Physical Review C, 2003, 68, .	2.9	2
69	Order and chaos in the geometric collective model. Physics of Atomic Nuclei, 2007, 70, 1572-1576.	0.4	2
70	QUANTUM PHASE TRANSITIONS AND NUCLEAR STRUCTURE. International Journal of Modern Physics E, 2009, 18, 965-974.	1.0	2
71	Quantum phase transitions in finite algebraic systems. Journal of Physics: Conference Series, 2011, 322, 012012.	0.4	2
72	Study of a curvature-based criterion for chaos in Hamiltonian systems with two degrees of freedom. Journal of Physics A: Mathematical and Theoretical, 2015, 48, 125102.	2.1	2

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73	Excited-state quantum phase transitions and their manifestations in an extended Dicke model. AIP Conference Proceedings, 2017, , .	0.4	2
74	LANDAU THEORY OF PHASE TRANSITIONS AND NUCLEAR GROUNDSTATE DEFORMATION. , 2003, , .		2
75	Peres lattices in nuclear structure and beyond. , 2009, , .		1
76	Order, chaos and (quasi-) dynamical symmetries across 1st-order quantum phase transitions in nuclei. AIP Conference Proceedings, 2019, , .	0.4	1
77	Gamma-ray strength functions at finite temperature. Physical Review C, 1995, 52, 919-925.	2.9	0
78	Complexity of perturbation functions for E2 + M1 hyperfine interactions. , 1998, 116, 41-51.		0
79	Nuclear shape-phase transitions studied within the interacting boson model-1. AIP Conference Proceedings, 2000, , .	0.4	0
80	Equivalent potentials of the geometric collective model and interacting boson model. Physical Review C, 2001, 64, .	2.9	0
81	Eleventh international symposium on capture gamma-ray spectroscopy and related topics. Nuclear Physics News, 2003, 13, 15-16.	0.4	0
82	MICROSCOPIC FOUNDATIONS OF NUCLEAR SUPERSYMMETRY. , 2003, , .		0
83	Thermodynamic Analogy for Structural Phase Transitions. AIP Conference Proceedings, 2005, , .	0.4	0
84	Classical chaos in the interacting boson model. AIP Conference Proceedings, 2006, , .	0.4	0
85	Regular and chaotic nuclear vibrations. AIP Conference Proceedings, 2006, , .	0.4	0
86	Order and chaos in the interacting boson model. Physics of Atomic Nuclei, 2007, 70, 1592-1596.	0.4	0
87	Quantum phase transitions for excited states. , 2009, , .		0
88	SYMMETRY VS. CHAOS IN COLLECTIVE DYNAMICS. International Journal of Modern Physics E, 2011, 20, 213-218.	1.0	0
89	Decoherence and quantum quench: Their relationship with excited state quantum phase transitions. , 2012, , .		0
90	Excited state quantum phase transitions and chaos in the Dicke model. , 2012, , .		0

#	Article	IF	CITATIONS
91	Geometric criterion for chaos in collective dynamics of nuclei. Physica Scripta, 2015, 90, 114014.	2.5	0

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92 Manifestation of chaos in collective models of nuclei. , 2011, , .