Calvin Johnson

List of Publications by Year in descending order

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50	1,151	16	34
papers	citations	h-index	g-index
50	50	50	485
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Monte Carlo evaluation of path integrals for the nuclear shell model. Physical Review C, 1993, 48, 1518-1545.	2.9	214
2	Orderly Spectra from Random Interactions. Physical Review Letters, 1998, 80, 2749-2753.	7.8	155
3	Weak-interaction rates in ^{16}O. Physical Review Letters, 1990, 65, 1325-1328.	7.8	110
4	Generalized seniority from random Hamiltonians. Physical Review C, 1999, 61, .	2.9	72
5	Factorization in large-scale many-body calculations. Computer Physics Communications, 2013, 184, 2761-2774.	7.5	66
6	Demonstration of the auxiliary-field Monte Carlo approach forsd-shell nuclei. Physical Review C, 1994, 49, 1422-1427.	2.9	63
7	Entanglement and collective flavor oscillations in a dense neutrino gas. Physical Review D, 2019, 100, .	4.7	39
8	White paper: from bound states to the continuum. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 123001.	3.6	38
9	Spin structure of many-body systems with two-body random interactions. Physical Review C, 2000, 63, .	2.9	31
10	Random phase approximation vs exact shell-model correlation energies. Physical Review C, 2002, 66, .	2.9	28
11	Systematics of strength function sum rules. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 750, 72-75.	4.1	28
12	Lipkin model on a quantum computer. Physical Review C, 2021, 104, .	2.9	28
13	Gamow-Teller transitions and deformation in the proton-neutron random phase approximation. Physical Review C, 2004, 69, .	2.9	25
14	Spin-orbit decomposition of <i>ab initio </i> nuclear wave functions. Physical Review C, 2015, 91, .	2.9	20
15	SU(3) symmetry breaking in lowerfp-shell nuclei. Physical Review C, 2000, 63, .	2.9	19
16	Benchmark calculation of inclusive electromagnetic responses in the four-body nuclear system. Nuclear Physics A, 2007, 785, 307-321.	1.5	17
17	ELECTROMAGNETIC TRANSITIONS WITH EFFECTIVE OPERATORS. International Journal of Modern Physics E, 2005, 14, 95-103.	1.0	16
18	Collective neutrino oscillations with tensor networks using a time-dependent variational principle. Physical Review D, 2022, 105, .	4.7	16

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19	Unified theory of fermion pair to boson mappings in full and truncated spaces. Physical Review C, 1995, 51, 1861-1872.	2.9	15
20	Projection of angular momentum via linear algebra. Physical Review C, 2017, 96, .	2.9	15
21	Union of rotational and vibrational modes in generator-coordinate-type calculations, with application to neutrinoless double- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mi>β</mml:mi></mml:math> decay. Physical Review C. 2019. 100	2.9	14
22	Uncertainty quantification of an empirical shell-model interaction using principal component analysis. Physical Review C, 2020, 101 , .	2.9	13
23	Comparison of Gamow–Teller strengths in the random phase approximation. Journal of Physics G: Nuclear and Particle Physics, 2013, 40, 065202.	3.6	11
24	Convergence and efficiency of angular momentum projection. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 015101.	3.6	10
25	From deformed Hartree-Fock to the nucleon-pair approximation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 809, 135705.	4.1	10
26	Transition sum rules in the shell model. Physical Review C, 2018, 97, .	2.9	9
27	Hermitian boson mapping and finite truncation. Physical Review C, 1994, 50, R571-R575.	2.9	6
28	Quasidynamical symmetries in the backbending of chromium isotopes. Physical Review C, 2017, 95, .	2.9	6
29	Nucleon-pair approximation for nuclei from spherical to deformed regions. Physical Review C, 2021, 104, .	2.9	6
30	Modified Brink-Axel hypothesis for astrophysical Gamow-Teller transitions. Physical Review C, 2022, 105 , .	2.9	6
31	Unmixing Symmetries. Physical Review Letters, 2020, 124, 172502.	7.8	5
32	Nucleon-pair coupling scheme in Elliott's SU(3) model. Physical Review C, 2021, 103, .	2.9	5
33	Benchmarking angular-momentum projected Hartree–Fock as an approximation. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 095107.	3.6	5
34	Model space truncation in shell-model fits. Physical Review C, 2009, 80, .	2.9	4
35	How effective is the Brink–Axel hypothesis for astrophysical weak rates?. Journal of Physics G: Nuclear and Particle Physics, 2022, 49, 065201.	3.6	4
36	Sensitivity analysis of random two-body interactions. Physical Review C, 2010, 81, .	2.9	3

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37	Testing the spin-cutoff parametrization with shell-model calculations. Physical Review C, 2014, 90, .	2.9	3
38	No-core shell model calculations of the photonuclear cross section of 10B. European Physical Journal A, 2019, 55, 1.	2.5	3
39	Tensor force role in <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>\hat{l}^2</mml:mi></mml:math> decays analyzed within the Gogny-interaction shell model. Physical Review C, 2021, 103, .	2.9	3
40	Exact sum rules with approximate ground states. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 105107.	3.6	3
41	Nuclear states projected from a pair condensate. Physical Review C, 2022, 105, .	2.9	3
42	Rotational bands beyond the Elliott model. Journal of Physics G: Nuclear and Particle Physics, 2021, 48, 075102.	3.6	2
43	SHORTCUTS TO NUCLEAR STRUCTURE: LESSONS IN HARTREE–FOCK, RPA, AND THE NO-CORE SHELL MODEL. International Journal of Modern Physics E, 2005, 14, 57-65.	1.0	1
44	A Locality-Based Threading Algorithm for the Configuration-Interaction Method., 2017,,.		1
45	Order out of chaos in the shell model. AIP Conference Proceedings, 2000, , .	0.4	O
46	RPA CORRELATIONS AND RESTORATION OF SYMMETRIES IN SD SHELL NUCLEI., 2002,,.		0
47	A statistical spectroscopy approach for calculating nuclear level densities. European Physical Journal A, 2005, 25, 673-674.	2.5	O
48	The origin of order in random matrices with symmetries. , 2012, , .		0
49	COLLECTIVITY, CHAOS, AND COMPUTERS. , 2004, , .		O
50	OBLIQUE-BASIS CALCULATIONS FOR 44Ti. , 2004, , .		0