

Robert Wiringa

List of Publications by Year in descending order

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51
papers

11,035
citations

94433

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182427

51
g-index

51
all docs

51
docs citations

51
times ranked

2936
citing authors

#	ARTICLE	IF	CITATIONS
1	Accurate nucleon-nucleon potential with charge-independence breaking. Physical Review C, 1995, 51, 38-51.	2.9	2,667
2	Quantum Monte Carlo calculations of nuclei with $A < 7$. Physical Review C, 1997, 56, 1720-1750.	2.9	910
3	Equation of state for dense nucleon matter. Physical Review C, 1988, 38, 1010-1037.	2.9	854
4	Quantum Monte Carlo Calculations of $A \leq 6$ Nuclei. Physical Review Letters, 1995, 74, 4396-4399.	7.8	689
5	QUANTUM MONTE CARLO CALCULATIONS OF LIGHT NUCLEI. Annual Review of Nuclear and Particle Science, 2001, 51, 53-90.	10.2	619
6	Nucleon-nucleon potentials with and without π (1232) degrees of freedom. Physical Review C, 1984, 29, 1207-1221.	2.9	586
7	Quantum Monte Carlo methods for nuclear physics. Reviews of Modern Physics, 2015, 87, 1067-1118.	45.6	553
8	Momentum distributions in $A = 3$ and 4 nuclei. Nuclear Physics A, 1986, 449, 219-242.	1.5	403
9	Variations on a theme of nuclear matter. Reviews of Modern Physics, 1979, 51, 821-861.	45.6	399
10	Three-nucleon interaction in 3 -, 4 - and \hat{z} -body systems. Nuclear Physics A, 1983, 401, 59-85.	1.5	391
11	Evolution of Nuclear Spectra with Nuclear Forces. Physical Review Letters, 2002, 89, 182501.	7.8	275
12	Tensor Forces and the Ground-State Structure of Nuclei. Physical Review Letters, 2007, 98, 132501.	7.8	208
13	Variational calculation of the ground state of O^{16} . Physical Review C, 1992, 46, 1741-1756.	2.9	193
14	Calculations of Ground-State Properties of Liquid He^4 Droplets. Physical Review Letters, 1983, 50, 1676-1679.	7.8	185
15	Variational Monte Carlo calculations of ground states of liquid He^4 and He^3 drops. Physical Review B, 1986, 34, 4571-4582.	3.2	180
16	Variational calculations of few-body nuclei. Physical Review C, 1991, 43, 1585-1598.	2.9	145
17	Femtometer toroidal structures in nuclei. Physical Review C, 1996, 54, 646-667.	2.9	139
18	Pion density in nuclei and deep-inelastic lepton scattering. Physical Review D, 1984, 29, 398-411.	4.7	121

#	ARTICLE	IF	CITATIONS
19	Brueckner-Bethe and variational calculations of nuclear matter. <i>Physical Review C</i> , 1985, 32, 1057-1062.	2.9	112
20	Calculations of Pion Excess in Nuclei. <i>Physical Review Letters</i> , 1983, 51, 763-766.	7.8	107
21	Weak capture of protons by protons. <i>Physical Review C</i> , 1998, 58, 1263-1277.	2.9	106
22	Structure functions and correlations in nuclei. <i>Nuclear Physics A</i> , 1987, 473, 267-289.	1.5	87
23	Equivalence Principle and Bound Kinetic Energy. <i>Physical Review Letters</i> , 2013, 111, 151102.	7.8	73
24	Single-particle potential in dense nuclear matter. <i>Physical Review C</i> , 1988, 38, 2967-2970.	2.9	63
25	A variational theory of nuclear matter. <i>Nuclear Physics A</i> , 1976, 266, 269-316.	1.5	60
26	Weak proton capture reactions on ^1H and ^3He and tritium β^2 decay. <i>Physical Review C</i> , 1991, 44, 619-625.	2.9	57
27	Effects of \hat{p} -isobar degrees of freedom on low-energy electroweak transitions in few-body nuclei. <i>Physical Review C</i> , 1992, 45, 2628-2639.	2.9	57
28	Nuclear Structure Studies with the $^7\text{Li}(e, e^2p)$ Reaction. <i>Physical Review Letters</i> , 1999, 82, 4404-4407.	7.8	53
29	Microscopic Calculation of ^6Li Elastic and Transition Form Factors. <i>Physical Review Letters</i> , 1998, 81, 4317-4320.	7.8	51
30	A variational theory of nuclear matter (II). <i>Nuclear Physics A</i> , 1978, 299, 1-38.	1.5	48
31	Variational calculations of resonant states in ^4He . <i>Nuclear Physics A</i> , 1984, 424, 47-59.	1.5	48
32	Quantum Monte Carlo calculations for light nuclei. <i>Nuclear Physics A</i> , 1998, 631, 70-90.	1.5	47
33	Ground state of ^{16}O . <i>Physical Review Letters</i> , 1990, 64, 364-367.	7.8	46
34	Three-body correlations in few-body nuclei. <i>Physical Review C</i> , 1995, 52, 2362-2368.	2.9	43
35	From deuterons to neutron stars: variations in nuclear many-body theory. <i>Reviews of Modern Physics</i> , 1993, 65, 231-242.	45.6	42
36	Precise Electromagnetic Tests of ^4He Initial State Calculations of Light Nuclei: States in ^4He . <i>Physical Review Letters</i> , 2009, 103, 192501.	7.8	41

#	ARTICLE	IF	CITATIONS
37	A variational theory of nuclear matter (III). Nuclear Physics A, 1979, 317, 1-22.	1.5	39
38	Interplay between two- and three-body interaction in light nuclei and nuclear matter. Nuclear Physics A, 1983, 401, 86-92.	1.5	37
39	Radiative neutron capture on He3. Physical Review C, 1990, 42, 830-836.	2.9	36
40	Modern theories of low-energy astrophysical reactions. Nuclear Physics A, 2006, 777, 111-136.	1.5	36
41	Pair distributions and energy-density functionals for liquid He4 drops. Physical Review B, 1985, 32, 3341-3344.	3.2	34
42	Coulomb sum and proton-proton correlations in few-body nuclei. Physical Review Letters, 1993, 70, 3856-3859.	7.8	33
43	Knockout Reactions from p -Shell Nuclei: Tests of <i>Ab Initio</i> Structure Models. Physical Review Letters, 2011, 106, 162502.	7.8	31
44	Isovector spin-longitudinal and -transverse response of nuclei. Physical Review C, 1994, 49, 789-801.	2.9	26
45	Neutron matter: a superfluid gas. Nuclear Physics A, 2004, 746, 215-221.	1.5	25
46	Nuclear Charge Radii of B 10 11 Physical Review Letters, 2019, 122, 182501.	7.8	24
47	<i>Ab initio</i> calculations of light nuclei. Nuclear Physics News, 2003, 13, 17-23.	0.4	22
48	Accuracy and convergence of a variational theory of nuclear matter for $\hat{H}/26$ models. Nuclear Physics A, 1980, 338, 57-76.	1.5	15
49	Variational calculations of models of nuclear and neutron matter. Nuclear Physics A, 1979, 328, 113-126.	1.5	10
50	Monte Carlo calculations of few-body and light nuclei. Nuclear Physics A, 1992, 543, 199-211.	1.5	7
51	Quantum Monte Carlo Calculations of Light Nuclei. Progress of Theoretical Physics Supplement, 2002, 146, 403-412.	0.1	2