

Willem H Dickhoff

List of Publications by Year in descending order

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133
papers

3,933
citations

94433

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57
g-index

136
all docs

136
docs citations

136
times ranked

1233
citing authors

#	ARTICLE	IF	CITATIONS
1	Self-consistent Green's function method for nuclei and nuclear matter. Progress in Particle and Nuclear Physics, 2004, 52, 377-496.	14.4	412
2	Single-particle properties and short-range correlations in nuclear matter. Nuclear Physics A, 1989, 503, 1-52.	1.5	145
3	Saturation of Nuclear Matter and Short-Range Correlations. Physical Review Letters, 2003, 90, 152501.	7.8	87
4	Density and isospin-asymmetry dependence of high-momentum components. Physical Review C, 2014, 89, .	2.9	87
5	Nucleon properties in the nuclear medium. Reports on Progress in Physics, 1992, 55, 1947-2023.	20.1	81
6	Pion condensation and realistic interactions. Physical Review C, 1981, 23, 1154-1173.	2.9	78
7	Momentum and energy distributions of nucleons in finite nuclei due to short-range correlations. Physical Review C, 1995, 51, 3040-3051.	2.9	75
8	The quasiparticle interaction, a shield of nuclear matter against pion condensation. Nuclear Physics A, 1981, 368, 445-476.	1.5	74
9	Single-particle spectral function of ^{16}O . Physical Review C, 1994, 49, R17-R20.	2.9	73
10	The screening of the particle-hole interaction to all orders. Nuclear Physics A, 1983, 405, 534-556.	1.5	72
11	Signatures for Short-Range Correlations in ^{16}O Observed in the Reaction $^{16}\text{O}(e,e^{\prime}pp)^{14}\text{C}$. Physical Review Letters, 1998, 81, 2213-2216.	7.8	67
12	Depletion of the nuclear Fermi sea. Physical Review C, 2009, 79, .	2.9	66
13	Influence of tensor and short-range correlations on nucleon properties in the nuclear medium. Nuclear Physics A, 1993, 555, 1-32.	1.5	65
14	Forging the Link between Nuclear Reactions and Nuclear Structure. Physical Review Letters, 2014, 112, 162503.	7.8	65
15	Pairing in high-density neutron matter including short- and long-range correlations. Physical Review C, 2016, 94, .	2.9	65
16	Quenching of single-particle strength from direct reactions with stable and rare-isotope beams. Progress in Particle and Nuclear Physics, 2021, 118, 103847.	14.4	64
17	Asymmetry Dependence of Proton Correlations. Physical Review Letters, 2006, 97, 162503.	7.8	63
18	Asymmetry dependence of nucleon correlations in spherical nuclei extracted from a dispersive-optical-model analysis. Physical Review C, 2011, 83, .	2.9	63

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19	The exchange of effective mesons between nucleons in nuclei. Nuclear Physics A, 1983, 399, 287-306.	1.5	62
20	Toward a complete theory for predicting inclusive deuteron breakup away from stability. European Physical Journal A, 2017, 53, 1.	2.5	62
21	Dispersive-optical-model analysis of the asymmetry dependence of correlations in Ca isotopes. Physical Review C, 2007, 76, .	2.9	59
22	Recent developments for the optical model of nuclei. Progress in Particle and Nuclear Physics, 2019, 105, 252-299.	14.4	59
23	Bound pair states in nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1991, 253, 1-8.	4.1	58
24	Evidence for short-range correlations in ^{16}O . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 474, 33-40.	4.1	54
25	Faddeev description of two-hole "one-particle motion and the single-particle spectral function. Physical Review C, 2001, 63, .	2.9	54
26	Microscopic description of heavy-ion scattering in the nuclear matter picture. Nuclear Physics A, 1985, 443, 499-524.	1.5	53
27	Pairing properties of nucleonic matter employing dressed nucleons. Physical Review C, 2005, 72, .	2.9	53
28	Faddeev treatment of long-range correlations and the one-hole spectral function of ^{16}O . Physical Review C, 2002, 65, .	2.9	50
29	Microscopic self-energy calculations and dispersive optical-model potentials. Physical Review C, 2011, 84, .	2.9	50
30	Distribution of single-particle strength due to short-range and tensor correlations. Physical Review C, 1991, 44, R1265-R1268.	2.9	46
31	Selectivity of the $^{16}\text{O}(e,e^2pp)$ reaction to discrete final states. Physical Review C, 1998, 57, 1691-1702.	2.9	43
32	Quasiparticles in neon using the Faddeev random-phase approximation. Physical Review A, 2007, 76, .	2.5	42
33	Novel applications of the dispersive optical model. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 033001.	3.6	41
34	Nuclear response beyond mean field theory. Nuclear Physics A, 1990, 509, 1-38.	1.5	39
35	A neutron decoupled from a rotating odd core in ^{114}Sb and ^{116}Sb . Nuclear Physics A, 1982, 379, 35-60.	1.5	38
36	Neutron Skin Thickness of ^{48}Ca from a Nonlocal Dispersive Optical-Model Analysis. Physical Review Letters, 2017, 119, 222503.	7.8	38

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37	White paper: from bound states to the continuum. Journal of Physics G: Nuclear and Particle Physics, 2020, 47, 123001.	3.6	38
38	Fragmentation of single-particle strength and the validity of the shell model. Nuclear Physics A, 1991, 531, 253-284.	1.5	37
39	Microscopic approach to real and imaginary part of the heavy ion potential. Nuclear Physics A, 1984, 428, 271-283.	1.5	36
40	Nonlocal extension of the dispersive optical model to describe data below the Fermi energy. Physical Review C, 2010, 82, .	2.9	35
41	Hole spectral functions and collective excitations. Nuclear Physics A, 1992, 550, 159-178.	1.5	34
42	Spectroscopic factors for nucleon knock-out from O_{16} at small missing energy. Physical Review C, 1996, 53, 2207-2212.	2.9	34
43	Self-consistent treatment of collective excitations in nuclear matter. Nuclear Physics A, 1987, 473, 394-428.	1.5	33
44	Connection between brueckner ladders and pairing correlations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 210, 15-19.	4.1	32
45	Two-nucleon spectral function of O_{16} at high momenta. Physical Review C, 1996, 54, 1144-1157.	2.9	31
46	Effects of nonlocal potentials on (p,d) transfer reactions. Physical Review C, 2015, 92, .	2.9	30
47	Spectroscopic information from different theoretical descriptions of (un)polarized ($e, e\epsilon^2p$) reactions. European Physical Journal A, 2003, 17, 65-69.	2.5	29
48	Phase shifts and in-medium cross sections for dressed nucleons in nuclear matter. Physical Review C, 1999, 60, .	2.9	28
49	Dispersive optical model analysis of Pb generating a neutron-skin prediction beyond the mean field. Physical Review C, 2020, 101, .	2.9	28
50	Extension of the random phase approximation including the self-consistent coupling to two-phonon contributions. Physical Review C, 2003, 68, .	2.9	27
51	SPECTROSCOPIC FACTORS IN ^{16}O AND NUCLEON ASYMMETRY. International Journal of Modern Physics A, 2009, 24, 2060-2068.	1.5	27
52	Scattering of dressed nucleons in nuclear matter. Physical Review C, 1998, 58, 2807-2820.	2.9	26
53	Effects of nuclear correlations on the $O_{16}(e, e\epsilon^2pN)$ reactions to discrete final states. Physical Review C, 2004, 70, .	2.9	26
54	Multiple $\hat{1}^{\pi}(3, 3)$ excitation and the binding energy of nuclear matter. Nuclear Physics A, 1982, 389, 492-508.	1.5	25

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55	Microscopic self-energy of ^{40}Ca from the charge-dependent Bonn potential. <i>Physical Review C</i> , 2011, 84, .	2.9	24
56	High-momentum proton removal from ^{16}O and the $(e, e\epsilon^2 p)$ cross section. <i>Physical Review C</i> , 1997, 55, 810-819.	2.9	23
57	Hole-hole propagation and saturation. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989, 219, 15-21.	4.1	22
58	Binding energy and momentum distribution of nuclear matter using Green's function methods. <i>Physical Review C</i> , 1991, 43, 2239-2253.	2.9	21
59	Validity of the distorted-wave impulse-approximation description of $^{40}\text{Ca}(e, e\epsilon^2 p)^{39}\text{K}$ data using only ingredients from a nonlocal dispersive optical model. <i>Physical Review C</i> , 2018, 98, .	2.9	21
60	Systematic Matter and Binding-Energy Distributions from a Dispersive Optical Model Analysis. <i>Physical Review Letters</i> , 2020, 125, 102501.	7.8	20
61	Isotopically resolved neutron total cross sections at intermediate energies. <i>Physical Review C</i> , 2020, 102, .	2.9	20
62	Self-consistent medium polarization in RPA. <i>Nuclear Physics A</i> , 1986, 451, 269-298.	1.5	19
63	Energy weighted sum rules for spectral functions in nuclear matter. <i>Physical Review C</i> , 1994, 49, 3050-3054.	2.9	19
64	Short-range correlations and the one-body density matrix in finite nuclei. <i>Nuclear Physics A</i> , 1995, 594, 117-136.	1.5	19
65	Determining and calculating spectroscopic factors from stable nuclei to the drip lines. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2010, 37, 064007.	3.6	19
66	Investigating the link between proton reaction cross sections and the quenching of proton spectroscopic factors in ^{48}Ca . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 798, 135027.	4.1	19
67	Local forces and the ^{16}O reaction matrix. <i>Nuclear Physics A</i> , 1984, 427, 224-234.	1.5	18
68	Spin-isospin strength and spectral functions. <i>Physical Review C</i> , 1993, 48, 1752-1764.	2.9	18
69	Hole spectral function and two-particle-one-hole response propagator. <i>Physical Review C</i> , 1996, 53, 201-213.	2.9	17
70	Transfer reactions and the dispersive optical model. <i>Physical Review C</i> , 2011, 84, .	2.9	17
71	How Strong is the Rho-Meson Exchange in the NN Interaction?. <i>Physical Review Letters</i> , 1982, 49, 1902-1905.	7.8	16
72	Application of realistic meson-exchange forces in the broken-pair model. <i>Nuclear Physics A</i> , 1985, 435, 381-396.	1.5	16

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73	Conserving RPA and the response of ^{48}Ca . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1988, 214, 483-489.	4.1	16
74	Elastic nucleon-nucleus scattering as a direct probe of correlations beyond the independent-particle model. Physical Review C, 2014, 90, .	2.9	16
75	Reexamining the relation between the binding energy of finite nuclei and the equation of state of infinite nuclear matter. Physical Review C, 2020, 102, .	2.9	16
76	Pairing and Short-Range Correlations in Nuclear Systems. Journal of Low Temperature Physics, 2017, 189, 234-249.	1.4	15
77	\hat{b} polarization in Z0 decays at LEP. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 474, 205-222.	4.1	14
78	\hat{p} isobars in finite nuclei and nuclear matter. Physical Review C, 1986, 33, 1753-1761.	2.9	11
79	Spin-isospin excitations in finite nuclei and nuclear matter. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 146, 1-6.	4.1	10
80	Consistency of spectroscopic factors from $(e,e\epsilon^2p)$ reactions at different momentum transfers. Physical Review C, 2002, 66, .	2.9	10
81	Isospin dependence of nucleon correlations in ground-state nuclei. European Physical Journal A, 2014, 50, 1.	2.5	10
82	The volume and surface contributions to the ion-ion optical potential. Journal of Physics G: Nuclear Physics, 1985, 11, 763-784.	0.8	9
83	The reaction mechanism of heavy ion scattering at intermediate energies. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 149, 459-464.	4.1	8
84	Self-consistent medium polarization in spin-polarized ^3He . Physical Review B, 1987, 36, 5138-5151.	3.2	8
85	Gamow-Teller (p,n) and (n,p) strength in a dressed extended random phase approximation. Physical Review C, 1994, 50, 514-517.	2.9	8
86	A nucleon in the nuclear medium: A tale of all energies. Physics Reports, 1994, 242, 119-137.	25.6	8
87	Publisher's Note: Pairing in high-density neutron matter including short- and long-range correlations [Phys. Rev. C 94 , 025802 (2016)]. Physical Review C, 2016, 94, .	2.9	8
88	Effective local interactions and the equation of state for nuclear matter and finite nuclei. Journal of Physics G: Nuclear and Particle Physics, 1994, 20, 425-440.	3.6	7
89	Effective operator for the transition density. Nuclear Physics A, 1987, 465, 189-206.	1.5	6
90	Various approaches to the linear response in the near-asymptotic regime. Physical Review B, 1990, 42, 10004-10011.	3.2	6

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91	Correlation effects on Λ propagation in nuclear matter. <i>Physical Review C</i> , 2004, 70, .	2.9	6
92	Nuclear many-body theory with inclusion of isobars: a new perspective. <i>Progress in Particle and Nuclear Physics</i> , 1984, 11, 529-547.	14.4	5
93	SOME CONSEQUENCES OF DRESSING NUCLEONS. <i>International Journal of Modern Physics E</i> , 1996, 05, 461-487.	1.0	5
94	Short range correlations and spectral functions for nuclear matter and finite nuclei. <i>Progress in Particle and Nuclear Physics</i> , 1995, 34, 371-380.	14.4	3
95	A further update on possible crises in nuclear-matter theory. <i>Journal of Physics: Conference Series</i> , 2016, 702, 012013.	0.4	3
96	Correlation effects on the nonmesonic weak decay of the Λ hyperon in nuclear matter. <i>Physical Review C</i> , 2005, 72, .	2.9	2
97	Toward a Global Dispersive Optical Model for the Driplines. <i>Nuclear Physics A</i> , 2010, 834, 788c-791c.	1.5	2
98	The Particle-Hole Interaction in Finite Nuclei. , 1988, , 261-267.		2
99	First application of the dispersive optical model to α reaction analysis within the distorted-wave impulse approximation framework. <i>Physical Review C</i> , 2022, 105, .	2.9	2
100	SATURATION PROPERTIES OF NUCLEAR MATTER AND CORRELATED NUCLEONS. <i>International Journal of Modern Physics B</i> , 2003, 17, 5151-5161.	2.0	1
101	Self-consistent Green's function calculations of ^{16}O at small missing energies. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2005, 31, S1301-S1309.	3.6	1
102	PAIRING OF STRONGLY CORRELATED NUCLEONS. <i>International Journal of Modern Physics B</i> , 2007, 21, 2395-2406.	2.0	1
103	Role of short-range and tensor correlations in nuclei. <i>Journal of Physics: Conference Series</i> , 2011, 312, 022007.	0.4	1
104	Forging the link between nuclear reactions and nuclear structure. <i>EPJ Web of Conferences</i> , 2016, 122, 09003.	0.3	1
105	Beyond BCS pairing in high-density neutron matter. <i>Journal of Physics: Conference Series</i> , 2018, 940, 012014.	0.4	1
106	Saturation in Nuclear Matter: a New Perspective. , 1988, , 319-332.		1
107	A New State of Nuclear Matter. , 1990, , 141-153.		1
108	Combining nuclear reactions and structure with the dispersive optical model. <i>Journal of Physics: Conference Series</i> , 2020, 1643, 012082.	0.4	1

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109	High-momentum phonon exchange and the effective shell-model interaction. Journal of Physics G: Nuclear Physics, 1987, 13, 463-479.	0.8	0
110	Nuclear response in an extended RPA formalism; an application to ^{48}Ca 0103. Progress in Particle and Nuclear Physics, 1990, 24, 61-70.	14.4	0
111	NONLINEAR ASPECTS OF NUCLEAR MANY-BODY THEORY. International Journal of Modern Physics C, 1994, 05, 285-287.	1.7	0
112	The Nucleon Propagator in the Nuclear Medium. International Review of Nuclear Physics, 1999, , 326-380.	1.0	0
113	SCATTERING OF DRESSED NUCLEONS IN THE NUCLEAR MEDIUM. International Journal of Modern Physics B, 1999, 13, 559-567.	2.0	0
114	Nucleon knockout experiments and configuration mixing in nuclei. Journal of Physics: Conference Series, 2005, 20, 89-94.	0.4	0
115	PAIRING OF STRONGLY CORRELATED NUCLEONS. , 2007, , .		0
116	A Secure Path to the Dripline Based on Theory and Experiment. , 2009, , .		0
117	Nucleon correlations and the equation of state of nuclear matter. , 2010, , .		0
118	Role of short-range and tensor correlations in nuclei. Journal of Physics: Conference Series, 2011, 321, 012038.	0.4	0
119	Pairing in bulk nuclear matter beyond BCS. , 2014, , .		0
120	TO DRESS OR NOT TO DRESS $\hat{\epsilon}$. , 2001, , .		0
121	TWO-BODY CORRELATIONS AND THE ONE-BODY DENSITY MATRIX IN FINITE NUCLEI. , 2002, , .		0
122	SATURATION PROPERTIES OF NUCLEAR MATTER AND CORRELATED NUCLEONS. , 2002, , .		0
123	PROPERTIES OF NUCLEONS AND THEIR INTERACTION IN THE NUCLEAR MEDIUM. , 2003, , .		0
124	Pairing Properties of Dressed Nucleons in Infinite Matter. Series on Advances in Quantum Many-body Theory, 2006, , 175-199.	0.2	0
125	CORRELATIONS AS A FUNCTION OF NUCLEON ASYMMETRY: THE LURE OF DRIPLINE PHYSICS. , 2008, , .		0
126	Spectral Functions and the Momentum Distribution of Nuclear Matter. NATO ASI Series Series B: Physics, 1989, , 615-624.	0.2	0

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127	Single-Particle Strength and Nuclear Response Functions. , 1989, , 345-349.		0
128	The Foundation of The Nuclear Shell Model. , 1990, , 273-281.		0
129	Short Range Correlations and Single Particle Spectral Functions in Nuclear Matter. , 1991, , 417-428.		0
130	Fermi Liquid and $\hat{\rho}$ QCD $\hat{\rho}$ Aspects of the Nucleus. , 1992, , 15-28.		0
131	Single Particle Spectral Function for Finite Nuclei. Few-Body Systems, 1995, , 54-59.	0.2	0
132	Linking Nuclear Reactions and Nuclear Structure to Study Exotic Nuclei Using the Dispersive Optical Model. Springer Proceedings in Physics, 2021, , 83-90.	0.2	0
133	Reply to $\hat{\rho}$ Comment on $\hat{\rho}$ Reexamining the relation between the binding energy of finite nuclei and the equation of state of infinite nuclear matter $\hat{\rho}$ ™ $\hat{\rho}$. Physical Review C, 2021, 104, .	2.9	0