Hans A De Raedt

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Transverse Localization of Light. Physical Review Letters, 1989, 62, 47-50.	2.9	262
2	Integral-geometry morphological image analysis. Physics Reports, 2001, 347, 461-538.	10.3	227
3	Modeling electronic structure and transport properties of graphene with resonant scattering centers. Physical Review B, 2010, 82, .	1.1	218
4	Applications of the generalized Trotter formula. Physical Review A, 1983, 28, 3575-3580.	1.0	200
5	Product formula algorithms for solving the time dependent SchrĶdinger equation. Computer Physics Reports, 1987, 7, 1-72.	2.3	190
6	Monte Carlo simulation of quantum statistical lattice models. Physics Reports, 1985, 127, 233-307.	10.3	184
7	Fast algorithm for finding the eigenvalue distribution of very large matrices. Physical Review E, 2000, 62, 4365-4377.	0.8	155
8	Numerical calculation of path integrals: The small-polaron model. Physical Review B, 1983, 27, 6097-6109.	1.1	138
9	Massively parallel quantum computer simulator. Computer Physics Communications, 2007, 176, 121-136.	3.0	138
10	Sparkling feather reflections of a bird-of-paradise explained by finite-difference time-domain modeling. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 4363-4368.	3.3	98
11	Reflectivity of the gyroid biophotonic crystals in the ventral wing scales of the Green Hairstreak butterfly, <i>Callophrys rubi</i> . Journal of the Royal Society Interface, 2010, 7, 765-771.	1.5	91
12	Sexual Dichromatism of the Damselfly Calopteryx japonica Caused by a Melanin-Chitin Multilayer in the Male Wing Veins. PLoS ONE, 2012, 7, e49743.	1.1	90
13	Numerical study of Holstein's molecular-crystal model: Adiabatic limit and influence of phonon dispersion. Physical Review B, 1984, 30, 1671-1678.	1.1	85
14	Electronic transport in disordered bilayer and trilayer graphene. Physical Review B, 2010, 82, .	1.1	82
15	Support vector machines on the D-Wave quantum annealer. Computer Physics Communications, 2020, 248, 107006.	3.0	82
16	<i>Brilliant camouflage</i> : photonic crystals in the diamond weevil, <i>Entimus imperialis</i> . Proceedings of the Royal Society B: Biological Sciences, 2012, 279, 2524-2530.	1.2	80
17	Benchmarking the quantum approximate optimization algorithm. Quantum Information Processing, 2020, 19, 1.	1.0	79
18	Iridescence and spectral filtering of the gyroid-type photonic crystals in <i>Parides sesostris</i> wing scales. Interface Focus, 2012, 2, 681-687.	1.5	77

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19	Dzyaloshinskii-Moriya interactions and adiabatic magnetization dynamics in molecular magnets. Physical Review B, 2004, 70, .	1.1	74
20	On the theory of layered high-temperature superconductors. Zeitschrift Für Physik B-Condensed Matter, 1989, 76, 3-15.	1.1	72
21	Theory of quantum tunneling of the magnetization in magnetic particles. Physical Review B, 1997, 56, 11761-11768.	1.1	71
22	Monte Carlo Calculation of the Thermodynamic Properties of a Quantum Model: A One-Dimensional Fermion Lattice Model. Physical Review Letters, 1981, 46, 77-80.	2.9	70
23	Massively parallel quantum computer simulator, eleven years later. Computer Physics Communications, 2019, 237, 47-61.	3.0	65
24	Optical conductivity of disordered graphene beyond the Dirac cone approximation. Physical Review B, 2011, 84, .	1.1	59
25	Hemispherical Brillouin zone imaging of a diamond-type biological photonic crystal. Journal of the Royal Society Interface, 2012, 9, 1609-1614.	1.5	54
26	New method for calculating transport coefficients and application to the Heisenberg chain. Physical Review B, 1977, 15, 5379-5390.	1.1	52
27	Benchmarking gate-based quantum computers. Computer Physics Communications, 2017, 220, 44-55.	3.0	51
28	Stochastic diagonalization. Physics Reports, 1993, 231, 107-149.	10.3	49
29	A Jones matrix formalism for simulating three-dimensional polarized light imaging of brain tissue. Journal of the Royal Society Interface, 2015, 12, 20150734.	1.5	47
30	Product formula methods for time-dependent Schrodinger problems. Journal of Physics A, 1990, 23, 5777-5793.	1.6	46
31	A local realist model for correlations of the singlet state. European Physical Journal B, 2006, 53, 139-142.	0.6	46
32	Analysis of multipath interference in three-slit experiments. Physical Review A, 2012, 85, .	1.0	46
33	Event-by-Event Simulation of Quantum Phenomena: Application to Einstein-Podolosky-Rosen-Bohm Experiments. Journal of Computational and Theoretical Nanoscience, 2007, 4, 957-991.	0.4	46
34	Unconditionally stable algorithms to solve the time-dependent Maxwell equations. Physical Review E, 2001, 64, 066705.	0.8	45
35	Algorithm to solve the time-dependent Schrol̀^dinger equation for a charged particle in an inhomogeneous magnetic field: Application to the Aharonov–Bohm effect. Computers in Physics, 1994, 8, 600.	0.6	42
36	Scaling properties of correlation functions at the liquid-glass transition. Journal of Physics C: Solid State Physics, 1986, 19, 2607-2612.	1.5	41

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37	Electron energy level statistics in graphene quantum dots. JETP Letters, 2008, 88, 607-610.	0.4	41
38	Possible experience: From Boole to Bell. Europhysics Letters, 2009, 87, 60007.	0.7	41
39	Extended Boole-Bell Inequalities Applicable to Quantum Theory. Journal of Computational and Theoretical Nanoscience, 2011, 8, 1011-1039.	0.4	41
40	Solution of the time-dependent SchrĶdinger equation for two-dimensional spin-1/2 Heisenberg systems. Physical Review B, 1993, 47, 7929-7937.	1.1	40
41	Morphological image analysis. Computer Physics Communications, 2000, 132, 94-103.	3.0	40
42	Solving the Maxwell equations by the Chebyshev method: a one-step finite-difference time-domain algorithm. IEEE Transactions on Antennas and Propagation, 2003, 51, 3155-3160.	3.1	40
43	Nanoporous gold formation by dealloying: A Metropolis Monte Carlo study. Computer Physics Communications, 2013, 184, 1562-1569.	3.0	40
44	Event-based simulation of single-photon beam splitters and Mach-Zehnder interferometers. Europhysics Letters, 2005, 69, 861-867.	0.7	39
45	Event-Based Computer Simulation Model of Aspect-Type Experiments Strictly Satisfying Einstein's Locality Conditions. Journal of the Physical Society of Japan, 2007, 76, 104005.	0.7	38
46	Event-by-Event Simulation ofÂEinstein-Podolsky-Rosen-Bohm Experiments. Foundations of Physics, 2008, 38, 322-347.	0.6	38
47	Deterministic event-based simulation of quantum phenomena. Computer Physics Communications, 2005, 171, 19-39.	3.0	37
48	Quantum theory as the most robust description of reproducible experiments. Annals of Physics, 2014, 347, 45-73.	1.0	37
49	Excitations in the electron liquid. Physical Review B, 1978, 18, 2039-2045.	1.1	36
50	Thermodynamics of a two-level system coupled to bosons. Physical Review B, 1984, 29, 5325-5336.	1.1	36
51	Localization of waves in fractals: Spatial behavior. Physical Review Letters, 1989, 62, 2515-2518.	2.9	36
52	Event-Based Corpuscular Model for Quantum Optics Experiments. Journal of Computational and Theoretical Nanoscience, 2011, 8, 1052-1080.	0.4	36
53	Benchmarking Advantage and D-Wave 2000Q quantum annealers with exact cover problems. Quantum Information Processing, 2022, 21, 1.	1.0	36
54	Quantum simulations and experiments on Rabi oscillations of spin qubits: Intrinsic vs extrinsic damping. Physical Review B, 2012, 85, .	1.1	35

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55	Fingerprints of disorder source in graphene. Physical Review B, 2015, 92, .	1.1	34
56	Real-time broadening of nonequilibrium density profiles and the role of the specific initial-state realization. Physical Review B, 2017, 95, .	1.1	34
57	Nontrivial Response of Nanoscale Uniaxial Magnets to an Alternating Field. Physical Review Letters, 1998, 80, 1525-1528.	2.9	33
58	Gate-error analysis in simulations of quantum computers with transmon qubits. Physical Review A, 2017, 96, .	1.0	32
59	Aspects of mathematical morphology. Advances in Imaging and Electron Physics, 2003, , 119-194.	0.1	31
60	Unified rotational dynamics of molecular crystals with orientational phase transition. Journal of Chemical Physics, 1976, 65, 977-984.	1.2	30
61	Monte Carlo diagonalization of many-body problems: Application to fermion systems. Physical Review B, 1992, 45, 8787-8790.	1.1	30
62	A computer program to simulate Einstein–Podolsky–Rosen–Bohm experiments with photons. Computer Physics Communications, 2007, 176, 642-651.	3.0	30
63	Decoherence by a spin thermal bath: Role of spin-spin interactions and initial state of the bath. Physical Review B, 2008, 77, .	1.1	30
64	Scaling of diffusion constants in the spin-«mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML">«mml:mfrac>«mml:mn>1«/mml:mn>«mml:mn>2«/mml: ladder. Physical Review B, 2014, 90, .	mn 1.4 /mm	l:m &a c>
65	Quantum Computer Emulator. Computer Physics Communications, 2000, 132, 1-20.	3.0	28
66	Origin of the Canonical Ensemble: Thermalization with Decoherence. Journal of the Physical Society of Japan, 2009, 78, 094003.	0.7	28
67	Local anharmonic vibrations strong correlations and superconductivity: A quantum simulation study. Zeitschrift Für Physik B-Condensed Matter, 1990, 81, 327-335.	1.1	27
68	Random State Technology. Journal of the Physical Society of Japan, 2021, 90, 012001.	0.7	27
69	Computer simulation study of bipolaron formation. Zeitschrift Für Physik B-Condensed Matter, 1986, 65, 43-51.	1.1	26
70	New Method to Simulate Quantum Interference Using Deterministic Processes and Application to Event-based Simulation of Quantum Computation. Journal of the Physical Society of Japan, 2005, 74, 16-25.	0.7	26
71	Diattenuation Imaging reveals different brain tissue properties. Scientific Reports, 2019, 9, 1939.	1.6	26
72	Simulation of Quantum Computation: A Deterministic Event-Based Approach. Journal of Computational and Theoretical Nanoscience, 2005, 2, 227-239.	0.4	26

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73	Approach to Equilibrium in Nano-scale Systems at Finite Temperature. Journal of the Physical Society of Japan, 2010, 79, 124005.	0.7	25
74	Monte Carlo study of the two-dimensional spin-1/2 XY model. Physics Letters, Section A: General, Atomic and Solid State Physics, 1984, 104, 430-434.	0.9	24
75	Andreev reflection in nanoscale metal-superconductor devices. Physical Review B, 1994, 50, 631-634.	1.1	24
76	One-step finite-difference time-domain algorithm to solve the Maxwell equations. Physical Review E, 2003, 67, 056706.	0.8	24
77	Real-time dynamics of typical and untypical states in nonintegrable systems. Physical Review B, 2018, 97,	1.1	24
78	Two-dimensional classical representations of the partition function of the spin-1/2 chain. Zeitschrift Für Physik B-Condensed Matter, 1982, 46, 261-267.	1.1	23
79	The simplified Hubbard model in one and two dimensions. Zeitschrift Für Physik B-Condensed Matter, 1993, 92, 353-362.	1.1	22
80	Event-based simulation of quantum physics experiments. International Journal of Modern Physics C, 2014, 25, 1430003.	0.8	22
81	Quantum Monte Carlo study of quasiparticles in the Hubbard model. Physical Review B, 1990, 41, 4669-4673.	1.1	21
82	Higher-order unconditionally stable algorithms to solve the time-dependent Maxwell equations. Physical Review E, 2002, 65, 066705.	0.8	21
83	Energy-level diagrams of high-spin and low-spin molecules. Physica Status Solidi (B): Basic Research, 2004, 241, 1180-1185.	0.7	21
84	Finite-temperature charge transport in the one-dimensional Hubbard model. Physical Review B, 2015, 92,	1.1	21
85	The photon identification loophole in EPRB experiments: computer models with single-wing selection. Open Physics, 2017, 15, 713-733.	0.8	21
86	Two-Level System Coupled to Phonons: A Discrete Path-Integral Method. Physical Review Letters, 1983, 50, 1926-1929.	2.9	20
87	On self-trapping in the molecular crystal model in onw, two and three dimensions. Physics Letters, Section A: General, Atomic and Solid State Physics, 1985, 108, 91-94.	0.9	20
88	Toward a High-Resolution Reconstruction of 3D Nerve Fiber Architectures and Crossings in the Brain Using Light Scattering Measurements and Finite-Difference Time-Domain Simulations. Physical Review X, 2020, 10, .	2.8	20
89	Low-temperature dynamics of the classical antiferromagnetic Heisenberg chain in an external field. Physical Review B, 1981, 23, 4597-4607.	1.1	19
90	Metal-insulator transition in a generalized Hubbard model. Physical Review Letters, 1992, 68, 1410-1413.	2.9	19

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91	Hidden assumptions in the derivation of the theorem of Bell. Physica Scripta, 2012, T151, 014002.	1.2	19
92	Equilibration and thermalization of classical systems. New Journal of Physics, 2013, 15, 033009.	1.2	19
93	Comparison between continued-fraction and computer-simulation methods applied to a classical Heisenberg chain. Physical Review B, 1979, 19, 2585-2594.	1.1	18
94	Tunneling through time-modulated barriers: Is there a crossover frequency?. Solid State Communications, 1990, 76, 847-850.	0.9	18
95	COMPUTER SIMULATION OF QUANTUM PHENOMENA IN NANOSCALE DEVICES. , 1996, , 107-146.		18
96	Einstein-Podolsky-Rosen-Bohm laboratory experiments: Data analysis and simulation. AIP Conference Proceedings, 2012, , .	0.3	18
97	Phonon dynamics in a compressible classical Heisenberg chain. Physical Review B, 1980, 21, 5330-5337.	1.1	17
98	Approximate Mapping of Two-Dimensional Quantum-Spin Models on Staggered Eight-Vertex Models. Physical Review Letters, 1982, 49, 602-605.	2.9	17
99	Focused electron emission from planar quantum point contacts. Physical Review Letters, 1989, 63, 2260-2263.	2.9	17
100	Quantum theory as a description of robust experiments: Derivation of the Pauli equation. Annals of Physics, 2015, 359, 166-186.	1.0	17
101	Relaxation, thermalization, and Markovian dynamics of two spins coupled to a spin bath. Physical Review E, 2017, 96, 053306.	0.8	17
102	Event-by-Event Simulation of Quantum Cryptography Protocols. Journal of Computational and Theoretical Nanoscience, 2008, 5, 490-504.	0.4	17
103	Event-Based Simulation of Neutron Interferometry Experiments. Quantum Matter, 2012, 1, 20-40.	0.2	17
104	Gaps in densities of states of two Hubbard-like models. Physical Review Letters, 1993, 70, 2463-2466.	2.9	16
105	Corpuscular Model of Two-Beam Interference and Double-Slit Experiments with Single Photons. Journal of the Physical Society of Japan, 2010, 79, 074401.	0.7	16
106	Eventâ€byâ€event simulation of quantum phenomena. Annalen Der Physik, 2012, 524, 393-410.	0.9	16
107	Dynamics of the classical antiferromagnetic Heisenberg chain in an applied field. Physical Review B, 1980, 21, 304-316.	1.1	15
108	Computer simulation of Wheeler's delayed-choice experiment with photons. Europhysics Letters, 2008, 82, 40004.	0.7	15

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109	Data analysis of Einstein-Podolsky-Rosen-Bohm laboratory experiments. Proceedings of SPIE, 2013, , .	0.8	15
110	Charge diffusion in the one-dimensional Hubbard model. Physical Review E, 2017, 96, 020105.	0.8	15
111	Quantum dynamical calculations on the magnetization reversal in clusters of spin-1/2 particles: Resonant coherent quantum tunneling. Physical Review B, 1996, 53, 741-746.	1.1	14
112	Morphological Characterization of Spatial Patterns. Progress of Theoretical Physics Supplement, 2000, 138, 543-548.	0.2	14
113	Feedback effect on Landau-Zener-Stückelberg transitions in magnetic systems. Physical Review B, 2000, 62, 13880-13883.	1.1	14
114	Unified framework for numerical methods to solve the time-dependent Maxwell equations. Computer Physics Communications, 2003, 156, 43-61.	3.0	14
115	Evolution of a quantum spin system to its ground state: Role of entanglement and interaction symmetry. Physical Review A, 2007, 75, .	1.0	14
116	Quantum decoherence scaling with bath size: Importance of dynamics, connectivity, and randomness. Physical Review A, 2013, 87, .	1.0	14
117	Eigenstate thermalization hypothesis and quantum Jarzynski relation for pure initial states. Physical Review E, 2016, 94, 012125.	0.8	14
118	Monte Carlo calculation of the thermodynamic properties of a one-dimensional fermion lattice model. Journal of Statistical Physics, 1982, 27, 731-744.	0.5	13
119	Simulation of two and three-dimensional disordered systems: Lifshitz tails and localization properties. Zeitschrift Für Physik B-Condensed Matter, 1989, 77, 243-251.	1.1	13
120	Superconductivity in Hubbard models coupled to non-fermionic degrees of freedom. Zeitschrift Für Physik B-Condensed Matter, 1990, 79, 327-332.	1.1	13
121	Macroscopically deterministic Markovian thermalization in finite quantum spin systems. Physical Review E, 2014, 89, 012131.	0.8	13
122	Dynamics of open quantum spin systems: An assessment of the quantum master equation approach. Physical Review E, 2016, 94, 022126.	0.8	13
123	Pseudospin Dynamics of the One-DimensionalS=12XY System PrCl3Studied by Electronic Raman Scattering. Physical Review Letters, 1984, 52, 1649-1652.	2.9	12
124	Calculation of rotationalT2relaxation in solid parahydrogen and orthodeuterium. Physical Review B, 1986, 33, 4264-4272.	1.1	12
125	Quantum transport in disordered mesoscopic ferromagnetic films. Physical Review B, 1999, 60, 15970-15974.	1.1	12
126	Giant enhancement of quantum decoherence by frustrated environments. JETP Letters, 2006, 84, 99-103.	0.4	12

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127	Spontaneous-Emission Rate in Microcavities: Application to Two-Dimensional Photonic Crystals. Physical Review Letters, 2006, 96, 120401.	2.9	12
128	The digital computer as a metaphor for the perfect laboratory experiment: Loophole-free Bell experiments. Computer Physics Communications, 2016, 209, 42-47.	3.0	12
129	Quantum versus classical dynamics in spin models: Chains, ladders, and square lattices. Physical Review B, 2021, 104, .	1.1	12
130	Efficient Methods for Solving the Time-Dependent SchrĶdinger Equation: Application to Anderson Localization. Europhysics Letters, 1987, 3, 139-144.	0.7	11
131	Single-particle self-energy and optical conductivity of the simplified Hubbard model. Zeitschrift FÃŀ4r Physik B-Condensed Matter, 1994, 95, 475-479.	1.1	11
132	Quantum molecular dynamics study of the Su-Schrieffer-Heeger model. Zeitschrift Für Physik B-Condensed Matter, 1997, 103, 391-400.	1.1	11
133	Quantum Monte Carlo method for attractive Coulomb potentials. Physical Review E, 2001, 64, 016704.	0.8	11
134	Reply to comment on "A local realist model for correlations of the singlet state" by M.P. Seevinck and JA Larsson. European Physical Journal B, 2007, 58, 55-59.	0.6	11
135	Quantum decoherence and thermalization at finite temperature within the canonical-thermal-state ensemble. Physical Review A, 2016, 93, .	1.0	11
136	Elastic and viscous bond components in the adhesion of colloidal particles and fibrillated streptococci to QCM-D crystal surfaces with different hydrophobicities using Kelvin–Voigt and Maxwell models. Physical Chemistry Chemical Physics, 2017, 19, 25391-25400.	1.3	11
137	Monte Carlo simulation of a kinetic Ising model of the glass transition. Solid State Communications, 1986, 57, 457-458.	0.9	10
138	Coexistence of full which-path information and interference in Wheeler's delayed-choice experiment with photons. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 348-353.	1.3	10
139	From Boole to Leggett-Garg: Epistemology of Bell-Type Inequalities. Advances in Mathematical Physics, 2016, 2016, 1-7.	0.4	10
140	Decoherence wave in magnetic systems and creation of Néel antiferromagnetic state by measurement. Physical Review B, 2016, 93, .	1.1	10
141	Breakdown of statistical inference from some random experiments. Computer Physics Communications, 2016, 200, 168-175.	3.0	10
142	General error mitigation for quantum circuits. Quantum Information Processing, 2020, 19, 1.	1.0	10
143	GPU-accelerated simulations of quantum annealing and the quantum approximate optimization algorithm. Computer Physics Communications, 2022, 278, 108411.	3.0	10
144	Dynamics of the classical planar spin chain. Physical Review B, 1978, 17, 4344-4351.	1.1	9

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145	Low-temperature phonon dynamics of a classical compressible Heisenberg chain. Journal of Physics C: Solid State Physics, 1981, 14, 2923-2933.	1.5	9
146	Calculation of the director configuration of nematic liquid crystals by the simulated-anneal method. Physical Review A, 1988, 37, 1725-1730.	1.0	9
147	Off-Diagonal Long-Range Order in Generalized Hubbard Models. International Journal of Modern Physics B, 1997, 11, 1311-1335.	1.0	9
148	Number partitioning on a quantum computer. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 290, 227-233.	0.9	9
149	Event-by-Event Simulation of a Quantum Eraser Experiment. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1771-1782.	0.4	9
150	Event-based simulation of light propagation in lossless dielectric media. Computer Physics Communications, 2011, 182, 726-734.	3.0	9
151	Logical inference derivation of the quantum theoretical description of Stern–Gerlach and Einstein–Podolsky–Rosen–Bohm experiments. Annals of Physics, 2018, 396, 96-118.	1.0	9
152	Self-consistent diffusion coefficients in nearly-one-dimensional paramagnets. Physical Review B, 1977, 16, 293-296.	1.1	8
153	Optical bistability in a low-photon-density regime. Physical Review A, 2018, 98, .	1.0	8
154	Static and dynamic properties of helical spin chains. Physical Review B, 1979, 19, 2595-2604.	1.1	7
155	Energy fluctuations in a classical Heisenberg chain. Physical Review B, 1980, 21, 4108-4112.	1.1	7
156	Nonlinear Effects in the Dynamic Structure Factor of the Classical Antiferromagnetic Heisenberg Chain in an External Field at Low Temperatures. Physical Review Letters, 1981, 46, 786-788.	2.9	7
157	Lattice dynamics of random and quasiperiodic heterostructures. Zeitschrift Für Physik B-Condensed Matter, 1988, 71, 287-293.	1.1	7
158	Finite size effects in layered superconductors. Zeitschrift Für Physik B-Condensed Matter, 1991, 85, 15-21.	1.1	7
159	Dynamical calculations on the reversal of single quantum spins: Quantum coherence. Physical Review B, 1997, 55, 937-941.	1.1	7
160	Resonant coherent quantum tunneling of the magnetization of spin- systems: Spin-parity effects. Physical Review B, 1997, 55, 931-936.	1.1	7
161	Field-tuned quantum tunneling of the magnetization. Journal of Applied Physics, 1998, 83, 6937-6939.	1.1	7
162	Phase separation in models for correlated electrons. Physical Review B, 1999, 59, 4565-4567.	1.1	7

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163	Photon and spin dependence of the resonance line shape in the strong coupling regime. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 124010.	0.6	7
164	Event-by-event simulation of nonclassical effects in two-photon interference experiments. Physica Scripta, 2012, T151, 014005.	1.2	7
165	Proposal for an Interference Experiment to Test the Applicability of Quantum Theory to Event-Based Processes. Journal of the Physical Society of Japan, 2012, 81, 034001.	0.7	7
166	Quantum theory as plausible reasoning applied to data obtained by robust experiments. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150233.	1.6	7
167	Assessment of the Variational Quantum Eigensolver: Application to the Heisenberg Model. Frontiers in Physics, 0, 10, .	1.0	7
168	Two-level system with nonlinear coupling. Physical Review B, 1987, 35, 5425-5430.	1.1	6
169	OPTICAL ABSORPTION IN THE SOLITON MODEL FOR POLYACETYLENE. Modern Physics Letters B, 1996, 10, 467-474.	1.0	6
170	Morphological image analysis of quantum motion in billiards. Physical Review E, 2000, 63, 016201.	0.8	6
171	Image transfer by cascaded stack of photonic crystal and air layers. Optics Express, 2006, 14, 879.	1.7	6
172	Domain-wall dynamics near a quantum critical point. Physical Review B, 2007, 75, .	1.1	6
173	Nagaoka ferromagnetism in large-spin fermionic and bosonic systems. Physical Review B, 2009, 80, .	1.1	6
174	Quantum response to time-dependent external fields. Journal of Physics: Conference Series, 2009, 143, 012005.	0.3	6
175	Quantum theory as the most robust description of reproducible experiments: application to a rigid linear rotator. Proceedings of SPIE, 2013, , .	0.8	6
176	Discrete-event simulation of uncertainty in single-neutron experiments. Frontiers in Physics, 2014, 2, .	1.0	6
177	Quantification of the viscoelasticity of the bond of biotic and abiotic particles adhering to solid-liquid interfaces using a window-equipped quartz crystal microbalance with dissipation. Colloids and Surfaces B: Biointerfaces, 2016, 148, 255-262.	2.5	6
178	Discrete-Event Simulation of an Extended Einstein-Podolsky-Rosen-Bohm Experiment. Frontiers in Physics, 2020, 8, .	1.0	6
179	Title is missing!. European Physical Journal B, 2002, 27, 15-28.	0.6	6
180	Electron wave collimation by conical horns: computer simulation. Journal of Physics Condensed Matter, 1991, 3, 8247-8256.	0.7	5

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181	Time-gated transillumination and reflection by biological tissues and tissuelike phantoms: simulation versus experiment. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 1997, 14, 1867.	0.8	5
182	Efficient data processing and quantum phenomena: Single-particle systems. Computer Physics Communications, 2006, 174, 803-817.	3.0	5
183	Quantum spinodal phenomena. Physical Review B, 2009, 79, .	1.1	5
184	Reply to the Comment by A. J. Leggett and Anupam Garg. Europhysics Letters, 2010, 91, 40002.	0.7	5
185	Classical and quantum annealing in the median of three-satisfiability. Physical Review A, 2011, 83, .	1.0	5
186	Discrete-event simulation of neutron interferometry experiments. , 2012, , .		5
187	Computation of ESR spectra from the time evolution of the magnetization: Comparison of autocorrelation and Wiener-Khinchin-relation-based methods. Physical Review B, 2015, 92, .	1.1	5
188	Logical inference approach to relativistic quantum mechanics: Derivation of the Klein–Gordon equation. Annals of Physics, 2016, 372, 74-82.	1.0	5
189	Separation of conditions as a prerequisite for quantum theory. Annals of Physics, 2019, 403, 112-135.	1.0	5
190	Real-time simulation of flux qubits used for quantum annealing. Physical Review A, 2020, 101, .	1.0	5
191	Quantum annealing with trigger Hamiltonians: Application to 2-satisfiability and nonstoquastic problems. Physical Review A, 2021, 104, .	1.0	5
192	Counterfactual Definiteness and Bell's Inequality. Journal of Modern Physics, 2016, 07, 1651-1660.	0.3	5
193	Spin waves in a classical compressible Heisenberg chain. Physics Letters, Section A: General, Atomic and Solid State Physics, 1980, 80, 81-83.	0.9	4
194	Simple quantum model for correlations in random one-dimensional Heisenberg antiferromagnets. Physical Review B, 1981, 24, 463-466.	1.1	4
195	Finite-bandwidth effects in one-dimensional Wigner lattices. Physical Review B, 1983, 27, 921-926.	1.1	4
196	Extended projector method: Application to a spin-boson system. Physical Review A, 1987, 36, 4612-4627.	1.0	4
197	Wave localization in disordered and fractal systems. Computer Physics Communications, 1993, 75, 298-310.	3.0	4
198	Quantum interference of charged identical particles. Annalen Der Physik, 1995, 507, 679-695.	0.9	4

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199	Quantum-molecular-dynamics calculation of the density of states and electrical conductivity: application to the soliton model for polyacetylene. Europhysics Letters, 1996, 34, 435-440.	0.7	4
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