

Hans A De Raedt

List of Publications by Year in descending order

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258
papers

6,243
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81839

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all docs

262
docs citations

262
times ranked

3700
citing authors

#	ARTICLE	IF	CITATIONS
1	Benchmarking Advantage and D-Wave 2000Q quantum annealers with exact cover problems. Quantum Information Processing, 2022, 21, 1.	1.0	36
2	GPU-accelerated simulations of quantum annealing and the quantum approximate optimization algorithm. Computer Physics Communications, 2022, 278, 108411.	3.0	10
3	Quantum annealing for hard 2-satisfiability problems: Distribution and scaling of minimum energy gap and success probability. Physical Review A, 2022, 105, .	1.0	2
4	Random State Technology. Journal of the Physical Society of Japan, 2021, 90, 012001.	0.7	27
5	Quantum versus classical dynamics in spin models: Chains, ladders, and square lattices. Physical Review B, 2021, 104, .	1.1	12
6	Quantum annealing with trigger Hamiltonians: Application to 2-satisfiability and nonstoquastic problems. Physical Review A, 2021, 104, .	1.0	5
7	Support vector machines on the D-Wave quantum annealer. Computer Physics Communications, 2020, 248, 107006.	3.0	82
8	General error mitigation for quantum circuits. Quantum Information Processing, 2020, 19, 1.	1.0	10
9	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
10	Discrete-Event Simulation of an Extended Einstein-Podolsky-Rosen-Bohm Experiment. Frontiers in Physics, 2020, 8, .	1.0	6
11	Benchmarking the quantum approximate optimization algorithm. Quantum Information Processing, 2020, 19, 1.	1.0	79
12	Real-time simulation of flux qubits used for quantum annealing. Physical Review A, 2020, 101, .	1.0	5
13	Long-Time Correlations in Single-Neutron Interferometry Data. Journal of the Physical Society of Japan, 2020, 89, 064005.	0.7	0
14	Separation of conditions as a prerequisite for quantum theory. Annals of Physics, 2019, 403, 112-135.	1.0	5
15	Diattenuation Imaging reveals different brain tissue properties. Scientific Reports, 2019, 9, 1939.	1.6	26
16	Massively parallel quantum computer simulator, eleven years later. Computer Physics Communications, 2019, 237, 47-61.	3.0	65
17	Optical bistability in a low-photon-density regime. Physical Review A, 2018, 98, .	1.0	8
18	Real-time dynamics of typical and untypical states in nonintegrable systems. Physical Review B, 2018, 97, .	1.1	24

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19	Antiferromagnetic order without recourse to staggered fields. <i>Physical Review B</i> , 2018, 98, .	1.1	3
20	Logical inference derivation of the quantum theoretical description of Sternâ€™Gerlach and Einsteinâ€™Podolskyâ€™Rosenâ€™Bohm experiments. <i>Annals of Physics</i> , 2018, 396, 96-118.	1.0	9
21	Size and temperature dependence of the line shape of ESR spectra of the XXZ antiferromagnetic chain. <i>Physical Review B</i> , 2017, 95, .	1.1	3
22	Real-time broadening of nonequilibrium density profiles and the role of the specific initial-state realization. <i>Physical Review B</i> , 2017, 95, .	1.1	34
23	Elastic and viscous bond components in the adhesion of colloidal particles and fibrillated streptococci to QCM-D crystal surfaces with different hydrophobicities using Kelvinâ€™Voigt and Maxwell models. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 25391-25400.	1.3	11
24	Charge diffusion in the one-dimensional Hubbard model. <i>Physical Review E</i> , 2017, 96, 020105.	0.8	15
25	Gate-error analysis in simulations of quantum computers with transmon qubits. <i>Physical Review A</i> , 2017, 96, .	1.0	32
26	Relaxation, thermalization, and Markovian dynamics of two spins coupled to a spin bath. <i>Physical Review E</i> , 2017, 96, 053306.	0.8	17
27	Benchmarking gate-based quantum computers. <i>Computer Physics Communications</i> , 2017, 220, 44-55.	3.0	51
28	The photon identification loophole in EPRB experiments: computer models with single-wing selection. <i>Open Physics</i> , 2017, 15, 713-733.	0.8	21
29	Discrete-Event Simulation Unmasks the Quantum Cheshire Cat. <i>Journal of Computational and Theoretical Nanoscience</i> , 2017, 14, 2268-2283.	0.4	1
30	Quantum Decoherence and Thermalization at Finite Temperatures of Non-Degenerate Spin Systems via Small Spin Environments. <i>Journal of Physics: Conference Series</i> , 2016, 750, 012021.	0.3	1
31	From Boole to Leggett-Garg: Epistemology of Bell-Type Inequalities. <i>Advances in Mathematical Physics</i> , 2016, 2016, 1-7.	0.4	10
32	Logical inference approach to relativistic quantum mechanics: Derivation of the Kleinâ€™Gordon equation. <i>Annals of Physics</i> , 2016, 372, 74-82.	1.0	5
33	Quantum theory as plausible reasoning applied to data obtained by robust experiments. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20150233.	1.6	7
34	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. <i>Colloids and Surfaces B: Biointerfaces</i> , 2016, 148, 255-262.	2.5	6
35	The digital computer as a metaphor for the perfect laboratory experiment: Loophole-free Bell experiments. <i>Computer Physics Communications</i> , 2016, 209, 42-47.	3.0	12
36	Dynamics of open quantum spin systems: An assessment of the quantum master equation approach. <i>Physical Review E</i> , 2016, 94, 022126.	0.8	13

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37	Computer Simulation of Einstein-Podolsky-Rosen-Bohm Experiments. Open Systems and Information Dynamics, 2016, 23, 1650010.	0.5	1
38	Quantum decoherence and thermalization at finite temperature within the canonical-thermal-state ensemble. Physical Review A, 2016, 93, .	1.0	11
39	Eigenstate thermalization hypothesis and quantum Jarzynski relation for pure initial states. Physical Review E, 2016, 94, 012125.	0.8	14
40	Decoherence wave in magnetic systems and creation of Néel antiferromagnetic state by measurement. Physical Review B, 2016, 93, .	1.1	10
41	Breakdown of statistical inference from some random experiments. Computer Physics Communications, 2016, 200, 168-175.	3.0	10
42	Finite-Difference Time-Domain Simulation for Three-Dimensional Polarized Light Imaging. Lecture Notes in Computer Science, 2016, , 73-85.	1.0	3
43	Counterfactual Definiteness and Bell's Inequality. Journal of Modern Physics, 2016, 07, 1651-1660.	0.3	5
44	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
45	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
46	Finite-temperature charge transport in the one-dimensional Hubbard model. Physical Review B, 2015, 92, .	1.1	21
47	Fingerprints of disorder source in graphene. Physical Review B, 2015, 92, .	1.1	34
48	Quantum theory as a description of robust experiments: Derivation of the Pauli equation. Annals of Physics, 2015, 359, 166-186.	1.0	17
49	Mysterious quantum Cheshire cat: an illusion. , 2015, , .		1
50	Quantum theory as a description of robust experiments: application to Stern-Gerlach and Einstein-Podolsky-Rosen-Bohm experiments. , 2015, , .		3
51	Discrete-event simulation of uncertainty in single-neutron experiments. Frontiers in Physics, 2014, 2, .	1.0	6
52	Event-based simulation of quantum physics experiments. International Journal of Modern Physics C, 2014, 25, 1430003.	0.8	22
53	Event-by-event simulation of single-neutron experiments to test uncertainty relations. Physica Scripta, 2014, T163, 014016.	1.2	0
54	Scaling of diffusion constants in the spin-1/2 ladder. Physical Review B, 2014, 90, .	1.4	10

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55	Macroscopically deterministic Markovian thermalization in finite quantum spin systems. <i>Physical Review E</i> , 2014, 89, 012131.	0.8	13
56	Event-by-event simulation of a quantum delayed-choice experiment. <i>Computer Physics Communications</i> , 2014, 185, 3109-3118.	3.0	2
57	Sparkling feather reflections of a bird-of-paradise explained by finite-difference time-domain modeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 4363-4368.	3.3	98
58	Quantum theory as the most robust description of reproducible experiments. <i>Annals of Physics</i> , 2014, 347, 45-73.	1.0	37
59	Event-Based Simulation of Quantum Physics Experiments. , 2014, , 237-305.		2
60	Event-based simulation of neutron experiments: interference, entanglement and uncertainty relations. <i>Journal of Physics: Conference Series</i> , 2014, 504, 012026.	0.3	1
61	Nanoporous gold formation by dealloying: A Metropolis Monte Carlo study. <i>Computer Physics Communications</i> , 2013, 184, 1562-1569.	3.0	40
62	Quantum decoherence scaling with bath size: Importance of dynamics, connectivity, and randomness. <i>Physical Review A</i> , 2013, 87, .	1.0	14
63	Equilibration and thermalization of classical systems. <i>New Journal of Physics</i> , 2013, 15, 033009.	1.2	19
64	Event-by-event simulation of experiments to create entanglement and violate Bell inequalities. , 2013, , .		0
65	Data analysis of Einstein-Podolsky-Rosen-Bohm laboratory experiments. <i>Proceedings of SPIE</i> , 2013, , .	0.8	15
66	Nonclassical effects in two-photon interference experiments: an event-by-event simulation. <i>Proceedings of SPIE</i> , 2013, , .	0.8	0
67	Quantum theory as the most robust description of reproducible experiments: application to a rigid linear rotator. <i>Proceedings of SPIE</i> , 2013, , .	0.8	6
68	Comment on "Experimental Test of an Event-Based Corpuscular Model Modification as an Alternative to Quantum Mechanics". <i>Journal of the Physical Society of Japan</i> , 2013, 82, 086001.	0.7	1
69	Shine and Hide: Biological Photonic Crystals on the Wings of Weevils. <i>Materials Research Society Symposia Proceedings</i> , 2013, 1504, 1.	0.1	4
70	Photon and spin dependence of the resonance line shape in the strong coupling regime. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2012, 45, 124010.	0.6	7
71	Hemispherical Brillouin zone imaging of a diamond-type biological photonic crystal. <i>Journal of the Royal Society Interface</i> , 2012, 9, 1609-1614.	1.5	54
72	Brilliant camouflage : photonic crystals in the diamond weevil, <i>Entimus imperialis</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2012, 279, 2524-2530.	1.2	80

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73	Einstein-Podolsky-Rosen-Bohm laboratory experiments: Data analysis and simulation. AIP Conference Proceedings, 2012, , .	0.3	18
74	Event-based simulation of interference with alternatingly blocked particle sources. , 2012, , .		2
75	Event-by-event simulation of nonclassical effects in two-photon interference experiments. Physica Scripta, 2012, T151, 014005.	1.2	7
76	Corpuscular event-by-event simulation of quantum optics experiments: application to a quantum-controlled delayed-choice experiment. Physica Scripta, 2012, T151, 014004.	1.2	4
77	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
78	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
79	An Efficient Algorithm for Simulating the Real-Time Quantum Dynamics of a Single Spin-1/2 Coupled to Specific Spin-1/2 Baths. Journal of Physics: Conference Series, 2012, 402, 012019.	0.3	3
80	Hidden assumptions in the derivation of the theorem of Bell. Physica Scripta, 2012, T151, 014002.	1.2	19
81	Quantum simulations and experiments on Rabi oscillations of spin qubits: Intrinsic vs extrinsic damping. Physical Review B, 2012, 85, .	1.1	35
82	Analysis of multipath interference in three-slit experiments. Physical Review A, 2012, 85, .	1.0	46
83	Dynamics of a Single Spin-1/2 Coupled to x- and y-Spin Baths: Algorithm and Results. Physics Procedia, 2012, 34, 90-99.	1.2	3
84	Sexual Dichromatism of the Damselfly <i>Calopteryx japonica</i> Caused by a Melanin-Chitin Multilayer in the Male Wing Veins. PLoS ONE, 2012, 7, e49743.	1.1	90
85	Discrete-event simulation of neutron interferometry experiments. , 2012, , .		5
86	Event-by-event simulation of quantum phenomena. Annalen Der Physik, 2012, 524, 393-410.	0.9	16
87	Event-Based Simulation of Neutron Interferometry Experiments. Quantum Matter, 2012, 1, 20-40.	0.2	17
88	Boole and Bell inequality. , 2011, , .		1
89	Towards an event-based corpuscular model for optical phenomena. , 2011, , .		0
90	A modified Mach-Zehnder experiment to test the applicability of quantum theory to single-particle experiments. Proceedings of SPIE, 2011, , .	0.8	0

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91	<l>A Special Issue on<l>
 Foundations of Computational and Theoretical Nanoscience. Journal of Computational and Theoretical Nanoscience, 2011, 8, 887-888.	0.4	0
92	Event-based Simulation Model for Quantum Optics Experiments. , 2011, , .		0
93	Real-Time Quantum Dynamics of a Single Spin 1/2 Coupled to a Spin Bath. Physics Procedia, 2011, 15, 33-36.	1.2	2
94	Event-based simulation of light propagation in lossless dielectric media. Computer Physics Communications, 2011, 182, 726-734.	3.0	9
95	Optical conductivity of disordered graphene beyond the Dirac cone approximation. Physical Review B, 2011, 84, .	1.1	59
96	Classical and quantum annealing in the median of three-satisfiability. Physical Review A, 2011, 83, .	1.0	5
97	Extended Boole-Bell Inequalities Applicable to Quantum Theory. Journal of Computational and Theoretical Nanoscience, 2011, 8, 1011-1039.	0.4	41
98	Event-Based Corpuscular Model for Quantum Optics Experiments. Journal of Computational and Theoretical Nanoscience, 2011, 8, 1052-1080.	0.4	36
99	Reply to the Comment by A. J. Leggett and Anupam Garg. Europhysics Letters, 2010, 91, 40002.	0.7	5
100	Event-by-Event Simulation of a Quantum Eraser Experiment. Journal of Computational and Theoretical Nanoscience, 2010, 7, 1771-1782.	0.4	9
101	Particle-based simulation approach for single-particle interference experiments: Application to double-slit experiments. AIP Conference Proceedings, 2010, , .	0.3	1
102	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
103	Event-by-event simulation of quantum phenomena. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 298-302.	1.3	3
104	Event-by-event simulation of Wheeler's delayed-choice experiment. Physics Procedia, 2010, 6, 27-30.	1.2	0
105	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
106	Approach to Equilibrium in Nano-scale Systems at Finite Temperature. Journal of the Physical Society of Japan, 2010, 79, 124005.	0.7	25
107	Quantum interference with macroscopic objects. AIP Conference Proceedings, 2010, , .	0.3	2
108	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

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109	Electronic transport in disordered bilayer and trilayer graphene. <i>Physical Review B</i> , 2010, 82, .	1.1	82
110	Modeling electronic structure and transport properties of graphene with resonant scattering centers. <i>Physical Review B</i> , 2010, 82, .	1.1	218
111	Nagaoka ferromagnetism in large-spin fermionic and bosonic systems. <i>Physical Review B</i> , 2009, 80, .	1.1	6
112	Quantum spinodal phenomena. <i>Physical Review B</i> , 2009, 79, .	1.1	5
113	Origin of the Canonical Ensemble: Thermalization with Decoherence. <i>Journal of the Physical Society of Japan</i> , 2009, 78, 094003.	0.7	28
114	Possible experience: From Boole to Bell. <i>Europhysics Letters</i> , 2009, 87, 60007.	0.7	41
115	Quantum response to time-dependent external fields. <i>Journal of Physics: Conference Series</i> , 2009, 143, 012005.	0.3	6
116	Event-by-event Simulation of EPR-Bohm Experiments. <i>Springer Proceedings in Physics</i> , 2009, , 66-70.	0.1	0
117	Event-by-Event Simulation of Einstein-Podolsky-Rosen-Bohm Experiments. <i>Foundations of Physics</i> , 2008, 38, 322-347.	0.6	38
118	Electron energy level statistics in graphene quantum dots. <i>JETP Letters</i> , 2008, 88, 607-610.	0.4	41
119	Computer simulation of Wheeler's delayed-choice experiment with photons. <i>Europhysics Letters</i> , 2008, 82, 40004.	0.7	15
120	Decoherence by a spin thermal bath: Role of spin-spin interactions and initial state of the bath. <i>Physical Review B</i> , 2008, 77, .	1.1	30
121	Shenet al.Reply:. <i>Physical Review Letters</i> , 2008, 101, .	2.9	4
122	Event-by-event simulation of quantum phenomena. <i>Brazilian Journal of Physics</i> , 2008, 38, .	0.7	1
123	Event-by-Event Simulation of Quantum Cryptography Protocols. <i>Journal of Computational and Theoretical Nanoscience</i> , 2008, 5, 490-504.	0.4	17
124	Evolution of a quantum spin system to its ground state: Role of entanglement and interaction symmetry. <i>Physical Review A</i> , 2007, 75, .	1.0	14
125	Domain-wall dynamics near a quantum critical point. <i>Physical Review B</i> , 2007, 75, .	1.1	6
126	Event-Based Computer Simulation Model of Aspect-Type Experiments Strictly Satisfying Einstein's Locality Conditions. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 104005.	0.7	38

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127	A computer program to simulate Einstein-Podolsky-Rosen-Bohm experiments with photons. Computer Physics Communications, 2007, 176, 642-651.	3.0	30
128	Unconditionally stable perfectly matched layer boundary conditions. Physica Status Solidi (B): Basic Research, 2007, 244, 3497-3505.	0.7	2
129	Reply to comment on "A local realist model for correlations of the singlet state" by M.P. Seevinck and J.-Å.... Larsson. European Physical Journal B, 2007, 58, 55-59.	0.6	11
130	Massively parallel quantum computer simulator. Computer Physics Communications, 2007, 176, 121-136.	3.0	138
131	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
132	Image transfer by cascaded stack of photonic crystal and air layers. Optics Express, 2006, 14, 879.	1.7	6
133	Giant enhancement of quantum decoherence by frustrated environments. JETP Letters, 2006, 84, 99-103.	0.4	12
134	Efficient data processing and quantum phenomena: Single-particle systems. Computer Physics Communications, 2006, 174, 803-817.	3.0	5
135	A local realist model for correlations of the singlet state. European Physical Journal B, 2006, 53, 139-142.	0.6	46
136	Quantum Dynamics of Spin Wave Propagation through Domain Walls. Journal of the Physical Society of Japan, 2006, 75, 084703.	0.7	4
137	Spontaneous-Emission Rate in Microcavities: Application to Two-Dimensional Photonic Crystals. Physical Review Letters, 2006, 96, 120401.	2.9	12
138	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
139	Deterministic event-based simulation of quantum phenomena. Computer Physics Communications, 2005, 171, 19-39.	3.0	37
140	Event-based simulation of single-photon beam splitters and Mach-Zehnder interferometers. Europhysics Letters, 2005, 69, 861-867.	0.7	39
141	Simulation of Quantum Computation: A Deterministic Event-Based Approach. Journal of Computational and Theoretical Nanoscience, 2005, 2, 227-239.	0.4	26
142	Energy-level diagrams of high-spin and low-spin molecules. Physica Status Solidi (B): Basic Research, 2004, 241, 1180-1185.	0.7	21
143	Dzyaloshinskii-Moriya interactions and adiabatic magnetization dynamics in molecular magnets. Physical Review B, 2004, 70, .	1.1	74
144	Unified framework for numerical methods to solve the time-dependent Maxwell equations. Computer Physics Communications, 2003, 156, 43-61.	3.0	14

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145	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
146	One-step finite-difference time-domain algorithm to solve the Maxwell equations. Physical Review E, 2003, 67, 056706.	0.8	24
147	Aspects of mathematical morphology. Advances in Imaging and Electron Physics, 2003, , 119-194.	0.1	31
148	Higher-order unconditionally stable algorithms to solve the time-dependent Maxwell equations. Physical Review E, 2002, 65, 066705.	0.8	21
149	A simulator for quantum computer hardware. Nanotechnology, 2002, 13, 23-28.	1.3	3
150	Quantum spin dynamics as a model for quantum computer operation. European Physical Journal B, 2002, 27, 15-28.	0.6	3
151	Title is missing!. European Physical Journal B, 2002, 27, 15-28.	0.6	6
152	Integral-geometry morphological image analysis. Physics Reports, 2001, 347, 461-538.	10.3	227
153	Number partitioning on a quantum computer. Physics Letters, Section A: General, Atomic and Solid State Physics, 2001, 290, 227-233.	0.9	9
154	Quantum Monte Carlo method for attractive Coulomb potentials. Physical Review E, 2001, 64, 016704.	0.8	11
155	Unconditionally stable algorithms to solve the time-dependent Maxwell equations. Physical Review E, 2001, 64, 066705.	0.8	45
156	Quantum Computer Emulator. Computer Physics Communications, 2000, 132, 1-20.	3.0	28
157	Morphological image analysis. Computer Physics Communications, 2000, 132, 94-103.	3.0	40
158	Morphological Characterization of Spatial Patterns. Progress of Theoretical Physics Supplement, 2000, 138, 543-548.	0.2	14
159	Feedback effect on Landau-Zener-Stückelberg transitions in magnetic systems. Physical Review B, 2000, 62, 13880-13883.	1.1	14
160	Fast algorithm for finding the eigenvalue distribution of very large matrices. Physical Review E, 2000, 62, 4365-4377.	0.8	155
161	Morphological image analysis of quantum motion in billiards. Physical Review E, 2000, 63, 016201.	0.8	6
162	Quantum Mechanical Transitions in a Dissipative Environment. Progress of Theoretical Physics Supplement, 2000, 138, 501-506.	0.2	1

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163	Quantum transport in disordered mesoscopic ferromagnetic films. <i>Physical Review B</i> , 1999, 60, 15970-15974.	1.1	12
164	Phase separation in models for correlated electrons. <i>Physical Review B</i> , 1999, 59, 4565-4567.	1.1	7
165	Comment on "Ensemble-Average Spectrum of Aharonov-Bohm Conductance Oscillations: Evidence for Spin-Orbit-Induced Berry's Phase". <i>Physical Review Letters</i> , 1999, 83, 1700-1700.	2.9	4
166	Field-tuned quantum tunneling of the magnetization. <i>Journal of Applied Physics</i> , 1998, 83, 6937-6939.	1.1	7
167	Nontrivial Response of Nanoscale Uniaxial Magnets to an Alternating Field. <i>Physical Review Letters</i> , 1998, 80, 1525-1528.	2.9	33
168	Field-tuned quantum tunnelling of the magnetization in small magnetic particles. <i>Europhysics Letters</i> , 1998, 42, 473-478.	0.7	3
169	<title>Detection of hidden objects in tissuelike phantoms by backscattered diffused light</title>. , 1998, , .		0
170	Time-resolved detection of small objects in turbid media by diffusive light: simulation versus experiment. , 1998, 3254, 372.		0
171	Computer simulation of time-gated transillumination and reflection of biological tissues and tissuelike phantoms. <i>Medical Physics</i> , 1997, 24, 1688-1695.	1.6	3
172	Dynamical calculations on the reversal of single quantum spins: Quantum coherence. <i>Physical Review B</i> , 1997, 55, 937-941.	1.1	7
173	Resonant coherent quantum tunneling of the magnetization of spin- systems: Spin-parity effects. <i>Physical Review B</i> , 1997, 55, 931-936.	1.1	7
174	Rigorous Bounds on the Free Energy of Electron-Phonon Models. <i>International Journal of Modern Physics B</i> , 1997, 11, 1591-1605.	1.0	1
175	Off-Diagonal Long-Range Order in Generalized Hubbard Models. <i>International Journal of Modern Physics B</i> , 1997, 11, 1311-1335.	1.0	9
176	Theory of quantum tunneling of the magnetization in magnetic particles. <i>Physical Review B</i> , 1997, 56, 11761-11768.	1.1	71
177	Time-gated transillumination and reflection by biological tissues and tissuelike phantoms: simulation versus experiment. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 1997, 14, 1867.	0.8	5
178	Quantum molecular dynamics study of the Su-Schrieffer-Heeger model. <i>Zeitschrift für Physik B-Condensed Matter</i> , 1997, 103, 391-400.	1.1	11
179	Quantum-molecular-dynamics calculation of the density of states and electrical conductivity: application to the soliton model for polyacetylene. <i>Europhysics Letters</i> , 1996, 34, 435-440.	0.7	4
180	Quantum dynamical calculations on the magnetization reversal in clusters of spin-1/2 particles: Resonant coherent quantum tunneling. <i>Physical Review B</i> , 1996, 53, 741-746.	1.1	14

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181	METAL-INSULATOR TRANSITION AND FRAÛHLICH CONDUCTIVITY IN THE SU-SCHRIEFFER-HEEGER MODEL. Modern Physics Letters B, 1996, 10, 855-861.	1.0	2
182	OPTICAL ABSORPTION IN THE SOLITON MODEL FOR POLYACETYLENE. Modern Physics Letters B, 1996, 10, 467-474.	1.0	6
183	COMPUTER SIMULATION OF QUANTUM PHENOMENA IN NANOSCALE DEVICES. , 1996, , 107-146.		18
184	Quantum interference of charged identical particles. Annalen Der Physik, 1995, 507, 679-695.	0.9	4
185	Algorithm to solve the time-dependent Schroÿdinger equation for a charged particle in an inhomogeneous magnetic field: Application to the Aharonovâ€“Bohm effect. Computers in Physics, 1994, 8, 600.	0.6	42
186	Finite-Temperature Phase Transition in the Montorsi-Rasetti Model. Europhysics Letters, 1994, 25, 599-604.	0.7	2
187	First-order phase transitions in the Montorsi-Rasetti model. Physical Review E, 1994, 50, 4371-4379.	0.8	1
188	Andreev reflection in nanoscale metal-superconductor devices. Physical Review B, 1994, 50, 631-634.	1.1	24
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