## Hans A De Raedt

## List of Publications by Year in descending order

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1 Transverse Localization of Light. Physical Review Letters, 1989, 62, 47-50.

2 Integral-geometry morphological image analysis. Physics Reports, 2001, 347, 461-538.
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Modeling electronic structure and transport properties of graphene with resonant scattering
centers. Physical Review B, 2010, 82, .
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4 Applications of the generalized Trotter formula. Physical Review A, 1983, 28, 3575-3580.
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Product formula algorithms for solving the time dependent SchrÃๆdinger equation. Computer Physics
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$6 \quad$ Monte Carlo simulation of quantum statistical lattice models. Physics Reports, 1985, 127, 233-307.
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7 Fast algorithm for finding the eigenvalue distribution of very large matrices. Physical Review E, 2000,
62, 4365-4377.
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8 Numerical calculation of path integrals: The small-polaron model. Physical Review B, 1983, 27, 6097-6109.
$9 \quad$ 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.
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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 FÃㅍ/4r 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 |
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| 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 Schroìdinger equation for a charged particle in an inhomogeneous magnetic field: Application to the Aharonovấ" "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 |


| 37 | Electron energy level statistics in graphene quantum dots. JETP Letters, 2008, 88, 607-610. | 0.4 | 41 |
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| 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 SchrÃ $\mathbb{I}$ dinger 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 |


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| 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 Einsteinâ€"Podolskyâ€"Rosenâ€"Bohm experiments with photons. Computer Physics Communications, 2007, 176, 642-651. | 3.0 | 30 |
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| 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 |
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| 79 | The simplified Hubbard model in one and two dimensions. Zeitschrift FÃ $1 / 4 r$ 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 |
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101 Relaxation, thermalization, and Markovian dynamics of two spins coupled to a spin bath. Physical Review E, 2017, 96, 053306.
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| 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 | 1 |
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| 131 | Single-particle self-energy and optical conductivity of the simplified Hubbard model. Zeitschrift $F \tilde{A}^{1} / 4 \mathrm{r}$ Physik B-Condensed Matter, 1994, 95, 475-479. | 1.1 | 1 |
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| 133 | Quantum Monte Carlo method for attractive Coulomb potentials. Physical Review E, 2001, 64, 016704. | 0.8 | 11 |
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| 164 | Event-by-event simulation of nonclassical effects in two-photon interference experiments. Physica <br> Scripta, 2012, T151, 014005. |
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