

List of Publications by Year in descending order

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106
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times ranked

11013
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Model for a Quantum Hall Effect without Landau Levels: Condensed-Matter Realization of the "Parity Anomaly". Physical Review Letters, 1988, 61, 2015-2018. | 2.9 | 4,579 |
| 2 | Nonlinear Field Theory of Large-Spin Heisenberg Antiferromagnets: Semiclassically Quantized Solitons of the One-Dimensional Easy-Axis Néel State. Physical Review Letters, 1983, 50, 1153-1156. | 2.9 | 3,126 |
| 3 | 'Luttinger liquid theory' of one-dimensional quantum fluids. I. Properties of the Luttinger model and their extension to the general 1D interacting spinless Fermi gas. Journal of Physics C: Solid State Physics, 1981, 14, 2585-2609. | 1.5 | 2,118 |
| 4 | Possible Realization of Directional Optical Waveguides in Photonic Crystals with Broken Time-Reversal Symmetry. Physical Review Letters, 2008, 100, 013904. | 2.9 | 2,040 |
| 5 | Fractional Quantization of the Hall Effect: A Hierarchy of Incompressible Quantum Fluid States. Physical Review Letters, 1983, 51, 605-608. | 2.9 | 1,827 |
| 6 | Entanglement Spectrum as a Generalization of Entanglement Entropy: Identification of Topological Order in Non-Abelian Fractional Quantum Hall Effect States. Physical Review Letters, 2008, 101, 010504. | 2.9 | 1,169 |
| 7 | Effective Harmonic-Fluid Approach to Low-Energy Properties of One-Dimensional Quantum Fluids. Physical Review Letters, 1981, 47, 1840-1843. | 2.9 | 1,039 |
| 8 | Analogs of quantum-Hall-effect edge states in photonic crystals. Physical Review A, 2008, 78, . | 1.0 | 963 |
| 9 | ~Fractional statistics~™™ in arbitrary dimensions: A generalization of the Pauli principle. Physical Review Letters, 1991, 67, 937-940. | 2.9 | 840 |
| 10 | | | |

| # | ARTICLE | IF | CITATIONS |
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| 19 | Incompressible Paired Hall State, Stripe Order, and the Composite Fermion Liquid Phase in Half-Filled Landau Levels. <i>Physical Review Letters</i> , 2000, 84, 4685-4688. | 2.9 | 337 |
| 20 | Periodic Laughlin-Jastrow wave functions for the fractional quantized Hall effect. <i>Physical Review B</i> , 1985, 31, 2529-2531. | 1.1 | 297 |
| 21 | Spin-singlet wave function for the half-integral quantum Hall effect. <i>Physical Review Letters</i> , 1988, 60, 956-959. | 2.9 | 285 |
| 22 | Many-Particle Translational Symmetries of Two-Dimensional Electrons at Rational Landau-Level Filling. <i>Physical Review Letters</i> , 1985, 55, 2095-2098. | 2.9 | 283 |
| 23 | Yangian symmetry of integrable quantum chains with long-range interactions and a new description of states in conformal field theory. <i>Physical Review Letters</i> , 1992, 69, 2021-2025. | 2.9 | 271 |
| 24 | Spinon gas description of the $S=1/2$ Heisenberg chain with inverse-square exchange: Exact spectrum and thermodynamics. <i>Physical Review Letters</i> , 1991, 66, 1529-1532. | 2.9 | 268 |
| 25 | Extended Heisenberg models of antiferromagnetism: Analogies to the fractional quantum Hall effect. <i>Physical Review Letters</i> , 1988, 60, 531-534. | 2.9 | 265 |
| 26 | Model Fractional Quantum Hall States and Jack Polynomials. <i>Physical Review Letters</i> , 2008, 100, 246802. | 2.9 | 243 |
| 27 | Geometrical Description of the Fractional Quantum Hall Effect. <i>Physical Review Letters</i> , 2011, 107, 116801. | 2.9 | 230 |
| 28 | Yang-Baxter equation in long-range interacting systems. <i>Journal of Physics A</i> , 1993, 26, 5219-5236. | 1.6 | 225 |
| 29 | Nondissipative Spin Hall Effect via Quantized Edge Transport. <i>Physical Review Letters</i> , 2005, 95, 136602. | 2.9 | 192 |
| 30 | Spinon physics and quantum spin chains (abstract). <i>Journal of Applied Physics</i> , 1985, 57, 3359-3359. | 1.1 | 160 |
| 31 | Models with inverse-square exchange. <i>Physical Review B</i> , 1992, 46, 9359-9368. | 1.1 | 144 |
| 32 | Stability of Chiral Luttinger Liquids and Abelian Quantum Hall States. <i>Physical Review Letters</i> , 1995, 74, 2090-2093. | 2.9 | 138 |
| 33 | Theory of the atomic limit of the Anderson model. I. Perturbation expansions re-examined. <i>Journal of Physics C: Solid State Physics</i> , 1978, 11, 5015-5034. | 1.5 | 132 |
| 34 | Charge-Density-Wave Ordering in Half-Filled High Landau Levels. <i>Physical Review Letters</i> , 1999, 83, 1219-1222. | 2.9 | 129 |
| 35 | Quantum dynamics and statistics of vortices in two-dimensional superfluids. <i>Physical Review Letters</i> , 1985, 55, 2887-2890. | 2.9 | 123 |
| 36 | Path dependence of the geometric rotation of polarization in optical fibers. <i>Optics Letters</i> , 1986, 11, 730. | 1.7 | 105 |

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| 37 | Laughlin state on stretched and squeezed cylinders and edge excitations in the quantum Hall effect. Physical Review B, 1994, 50, 17199-17207. | 1.1 | 101 |
| 38 | Topological Entanglement and Clustering of Jain Hierarchy States. Physical Review Letters, 2009, 103, 016801. | 2.9 | 96 |
| 39 | Exact calculation of the ground-state dynamical spin correlation function of a $S=1/2$ antiferromagnetic Heisenberg chain with free spinons. Physical Review Letters, 1993, 71, 4055-4058. | 2.9 | 88 |
| 40 | Band mass anisotropy and the intrinsic metric of fractional quantum Hall systems. Physical Review B, 2012, 85, . | 1.1 | 87 |
| 41 | Phase diagrams of surface structures from Bethe-ansatz solutions of the quantum sine-Gordon model. Physical Review B, 1983, 28, 2743-2745. | 1.1 | 86 |
| 42 | Localization, wave-function topology, and the integer quantized Hall effect. Physical Review Letters, 1988, 60, 619-622. | 2.9 | 85 |
| 43 | Geometrical Interpretation of Momentum and Crystal Momentum of Classical and Quantum Ferromagnetic Heisenberg Chains. Physical Review Letters, 1986, 57, 1488-1491. | 2.9 | 84 |
| 44 | Generalized clustering conditions of Jack polynomials at negative Jack parameter λ_{\pm} . Physical Review B, 2008, 77, . | 1.1 | 84 |
| 45 | Spontaneous Breakdown of Translational Symmetry in Quantum Hall Systems: Crystalline Order in High Landau Levels. Physical Review Letters, 2000, 85, 5396-5399. | 2.9 | 82 |
| 46 | Properties of Non-Abelian Fractional Quantum Hall States at Filling $\nu = \frac{1}{2}$. Physical Review Letters, 2008, 101, 246806. | 2.9 | 79 |
| 47 | Wigner crystals in the lowest Landau level at low-filling factors. Physical Review B, 2001, 64, . | 1.1 | 76 |
| 48 | Model Wave Functions for the Collective Modes and the Magnetoroton Theory of the Fractional Quantum Hall Effect. Physical Review Letters, 2012, 108, 256807. | 2.9 | 71 |
| 49 | Clustering Properties and Model Wave Functions for Non-Abelian Fractional Quantum Hall Quasielectrons. Physical Review Letters, 2009, 102, 066802. | 2.9 | 69 |
| 50 | Model anisotropic quantum Hall states. Physical Review B, 2012, 85, . | 1.1 | 69 |
| 51 | Impurity effect, degeneracy, and topological invariant in the quantum Hall effect. Physical Review B, 1986, 33, 3844-3850. | 1.1 | 68 |
| 52 | Topological Nodal Cooper Pairing in Doped Weyl Metals. Physical Review Letters, 2018, 120, 067003. | 2.9 | 68 |
| 53 | Hartree-Fock study of the Anderson model coupled to a boson field; mixed valence states. Physical Review B, 1977, 15, 281-289. | 1.1 | 67 |
| 54 | Disorder-Driven Collapse of the Mobility Gap and Transition to an Insulator in the Fractional Quantum Hall Effect. Physical Review Letters, 2003, 90, 256802. | 2.9 | 65 |

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| 55 | Odd-Integer Quantum Hall Effect in Graphene: Interaction and Disorder Effects. Physical Review Letters, 2007, 99, 196802. | 2.9 | 64 |
| 56 | Incompressible states of the fractionally quantized Hall effect in the presence of impurities: A finite-size study. Physical Review B, 1985, 32, 6924-6927. | 1.1 | 62 |
| 57 | Excitation spectrum of a generalised Heisenberg ferromagnetic spin chain with arbitrary spin. Journal of Physics C: Solid State Physics, 1982, 15, L1309-L1313. | 1.5 | 57 |
| 58 | Particle-hole symmetry breaking and the $\nu = 1/2$ fractional quantum Hall effect. Physical Review B, 2009, 80, . | 1.1 | 56 |
| 59 | Off-Diagonal Long-Range Order in Fractional Quantum-Hall-Effect States. Physical Review Letters, 1988, 61, 1985-1988. | 2.9 | 52 |
| 60 | New model for the mixed-valence phenomenon in rare-earth materials. Physical Review B, 1977, 15, 2477-2484. | 1.1 | 49 |
| 61 | Coupling between charge and spin degrees of freedom in the one-dimensional Fermi gas with backscattering. Journal of Physics C: Solid State Physics, 1979, 12, 4791-4799. | 1.5 | 48 |
| 62 | Quantum field ground state of the sine-Gordon model with finite soliton density: exact results. Journal of Physics A, 1982, 15, 507-525. | 1.6 | 46 |
| 63 | Quantized spin currents in two-dimensional chiral magnets. Physical Review B, 1995, 52, 4223-4225. | 1.1 | 42 |
| 64 | Mobility gap in fractional quantum Hall liquids: Effects of disorder and layer thickness. Physical Review B, 2005, 72, . | 1.1 | 42 |
| 65 | Fractional Quantum Hall States at $\nu = 13/2$ and $\nu = 12/5$: Their Non-Abelian Nature. Physical Review Letters, 2015, 115, 126805. | 2.9 | 41 |
| 66 | Elementary Excitations of One-Dimensional \tilde{J} Model with Inverse-Square Exchange. Physical Review Letters, 1994, 73, 2887-2890. | 2.9 | 39 |
| 67 | Squeezed strings and Yangian symmetry of the Heisenberg chain with long-range interaction. Physical Review B, 1993, 47, 12459-12469. | 1.1 | 38 |
| 68 | Spin Hall effect and spin transfer in a disordered Rashba model. Physical Review B, 2005, 72, . | 1.1 | 37 |
| 69 | Minimal entangled states and modular matrix for fractional quantum Hall effect in topological flat bands. Physical Review B, 2013, 88, . | 1.1 | 35 |
| 70 | Topological phase transition in the $\nu = 2/3$ quantum Hall effect. Physical Review B, 1996, 53, 15845-15855. | 1.1 | 33 |
| 71 | Fractional quantum Hall states at $\nu = 13$ and $\nu = 52$ filling: Density-matrix renormalization group calculations. Physical Review B, 2011, 83, . | 1.1 | 33 |
| 72 | Entanglement Entropy of the $\nu = 1/2$ Composite Fermion Non-Fermi Liquid State. Physical Review Letters, 2015, 114, 206402. | 2.9 | 33 |

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| 73 | Probing the geometry of the Laughlin state. <i>New Journal of Physics</i> , 2016, 18, 025011. | 1.2 | 33 |
| 74 | Mapping the braiding properties of the Moore-Read state. <i>Physical Review B</i> , 2009, 80, . | 1.1 | 32 |
| 75 | Quantum Phase Transitions and the $\nu=1/2$ Fractional Hall State in Wide Quantum Wells. <i>Physical Review Letters</i> , 2012, 109, 266806. | 2.9 | 32 |
| 76 | Single-particle Green's functions of the Calogero-Sutherland model at couplings $\hat{\nu}=1/2, 1$, and 2. <i>Physical Review B</i> , 1995, 52, 8729-8746. | 1.1 | 31 |
| 77 | Fractional quantum Hall bilayers at half filling: Tunneling-driven non-Abelian phase. <i>Physical Review B</i> , 2016, 94, . | 1.1 | 31 |
| 78 | Chiral Gravitons in Fractional Quantum Hall Liquids. <i>Physical Review Letters</i> , 2019, 123, 146801. | 2.9 | 29 |
| 79 | Dynamical $T=0$ correlations of the $S=1/2$ one-dimensional Heisenberg antiferromagnet with $1/r$ exchange in a magnetic field. <i>Physical Review B</i> , 1994, 50, 6889-6899. | 1.1 | 28 |
| 80 | Comment on "Observation of Berry's topological phase by use of an optical fiber". <i>Physical Review Letters</i> , 1987, 59, 1788-1788. | 2.9 | 27 |
| 81 | Guiding-center Hall viscosity and intrinsic dipole moment along edges of incompressible fractional quantum Hall fluids. <i>Physical Review B</i> , 2014, 90, . | 1.1 | 27 |
| 82 | Berry Phase and Model Wave Function in the Half-Filled Landau Level. <i>Physical Review Letters</i> , 2018, 121, 147202. | 2.9 | 27 |
| 83 | Lowest-order Landau-level mixing corrections for $\nu=1/2$ quantum Hall effect. <i>Physical Review B</i> , 1990, 42, 4532-4536. | 1.1 | 26 |
| 84 | Integrals of motion of the Haldane-Shastry model. <i>Journal of Physics A</i> , 1995, 28, 2369-2377. | 1.6 | 26 |
| 85 | Comment on "Weyl fermions and the anomalous Hall effect in metallic ferromagnets". <i>Physical Review B</i> , 2014, 89, . | 1.1 | 26 |
| 86 | Physics of the Ideal Semion Gas: Spinons and Quantum Symmetries of the Integrable Haldane-Shastry Spin Chain. <i>Springer Series in Solid-state Sciences</i> , 1994, , 3-20. | 0.3 | 25 |
| 87 | Identifying Non-Abelian Topological Order through Minimal Entangled States. <i>Physical Review Letters</i> , 2014, 112, 096803. | 2.9 | 24 |
| 88 | The hierarchical structure in the orbital entanglement spectrum of fractional quantum Hall systems. <i>New Journal of Physics</i> , 2011, 13, 105001. | 1.2 | 23 |
| 89 | Topological characterization of the non-Abelian Moore-Read state using density-matrix renormalization group. <i>Physical Review B</i> , 2015, 92, . | 1.1 | 23 |
| 90 | Lattice Monte Carlo for quantum Hall states on a torus. <i>Physical Review B</i> , 2019, 99, . | 1.1 | 19 |

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| 91 | Pomeranchuk Instability of Composite Fermi Liquids. Physical Review Letters, 2018, 121, 147601. | 2.9 | 18 |
| 92 | The origin of holomorphic states in Landau levels from non-commutative geometry and a new formula for their overlaps on the torus. Journal of Mathematical Physics, 2018, 59, . | 0.5 | 18 |
| 93 | The soliton wavenumber cut-off and the excitation spectrum of the 1-D Heisenberg ferromagnet in the semiclassical continuum approximation. Journal of Physics C: Solid State Physics, 1982, 15, L831-L835. | 1.5 | 17 |
| 94 | Broken-Symmetry States of Dirac Fermions in Graphene with a Partially Filled High Landau Level. Physical Review Letters, 2008, 100, 116802. | 2.9 | 17 |
| 95 | Nature of Quasielectrons and the Continuum of Neutral Bulk Excitations in Laughlin Quantum Hall Fluids. Physical Review Letters, 2014, 112, 026804. | 2.9 | 15 |
| 96 | Stability of the particle-hole Pfaffian state and the $\frac{5}{2}$ -fractional quantum Hall effect. Physical Review B, 2021, 104, . | 1.1 | 14 |
| 97 | Exact diagonalization study of domain structure in integer filling factor quantum Hall ferromagnets. Physical Review B, 2003, 67, . | 1.1 | 12 |
| 98 | Effective Harmonic-Fluid Approach to Low-Energy Properties of One-Dimensional Quantum Fluids.. Physical Review Letters, 1982, 48, 569-569. | 2.9 | 11 |
| 99 | Graviton chirality and topological order in the half-filled Landau level. Physical Review B, 2021, 104, . | 1.1 | 9 |
| 100 | Geometry of flux attachment in anisotropic fractional quantum Hall states. Physical Review B, 2018, 98, . | 1.1 | 6 |
| 101 | Non-Abelian statistics in one dimension: Topological momentum spacings and SU(2) level-k fusion rules. Physical Review B, 2019, 100, . | 1.1 | 6 |
| 102 | Microscopic diagnosis of universal geometric responses in fractional quantum Hall liquids. Physical Review B, 2021, 103, . | 1.1 | 6 |
| 103 | Elementary excitations of the quantum sine-Gordon model in the massless regime: Derivation from the XXZ model. Physical Review B, 1983, 28, 2505-2508. | 1.1 | 1 |
| 104 | Stripes and Pairing in the $\nu = 5/2$ Quantum Hall Effect. , 2001, , 203-213. | | 0 |