

Masaki Oshikawa

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6050542/publications.pdf>

Version: 2024-02-01

119
papers

8,053
citations

81900

39
h-index

46799

89
g-index

123
all docs

123
docs citations

123
times ranked

4314
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Topology and Edge State Meet an Exact Solution for Nonlinear Electric Circuits. JPSJ News and Comments, 2022, 19, . | 0.1 | 1 |
| 2 | Tensor network renormalization study on the crossover in classical Heisenberg and RP^2 models in two dimensions. Physical Review E, 2022, 106, . | 3.2 | 20 |
| 3 | Gappability Index for Quantum Many-Body Systems. Physical Review Letters, 2022, 129, . | 7.8 | 1 |
| 4 | Non-Fermi Liquids in Conducting Two-Dimensional Networks. Physical Review Letters, 2021, 126, 186601. | 7.8 | 6 |
| 5 | Twisted Boundary Condition and Lieb-Schultz-Mattis Ingapability for Discrete Symmetries. Physical Review Letters, 2021, 126, 217201. | 7.8 | 15 |
| 6 | Photon Echo from Lensing of Fractional Excitations in Tomonaga-Luttinger Spin Liquid. Physical Review X, 2021, 11, . | 8.9 | 12 |
| 7 | Resolving the Berezinskii-Kosterlitz-Thouless transition in the two-dimensional XY model with tensor-network-based level spectroscopy. Physical Review B, 2021, 104, . | 3.2 | 13 |
| 8 | Two-wire junction of inequivalent Tomonaga-Luttinger liquids. Physical Review B, 2021, 104, . | 3.2 | 3 |
| 9 | SU(4)-symmetric quantum spin-orbital liquids on various lattices. Physical Review B, 2021, 104, . | 3.2 | 11 |
| 10 | Generalized f -sum rules and Kohn formulas on nonlinear conductivities. Physical Review B, 2020, 102, . | 3.2 | 20 |
| 11 | Generalized Boundary Condition Applied to Lieb-Schultz-Mattis-Type Ingapabilities and Many-Body Chern Numbers. Physical Review X, 2020, 10, . | 8.9 | 21 |
| 12 | On the General Properties of Non-linear Optical Conductivities. Journal of Statistical Physics, 2020, 181, 2050-2070. | 1.2 | 14 |
| 13 | Stable Flatbands, Topology, and Superconductivity of Magic Honeycomb Networks. Physical Review Letters, 2020, 124, 137002. | 7.8 | 25 |
| 14 | Filling-enforced constraint on the quantized Hall conductivity on a periodic lattice. Annals of Physics, 2020, 413, 168060. | 2.8 | 27 |
| 15 | Proof of the Absence of Long-Range Temporal Orders in Gibbs States. Journal of Statistical Physics, 2020, 178, 926-935. | 1.2 | 20 |
| 16 | Anomaly Matching and Symmetry-Protected Critical Phases in SU Spin Systems in N Dimensions. Physical Review X, 2019, 9, . | 7.8 | 32 |
| 17 | Crossover of correlation functions near a quantum impurity in a Tomonaga-Luttinger liquid. Physical Review B, 2019, 99, . | 3.2 | 7 |
| 18 | Scaling of the polarization amplitude in quantum many-body systems in one dimension. Physical Review B, 2018, 97, . | 3.2 | 17 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Construction of Hamiltonians by supervised learning of energy and entanglement spectra. Physical Review B, 2018, 97, . | 3.2 | 24 |
| 20 | Particle statistics, frustration, and ground-state energy. Physical Review B, 2018, 97, . | 3.2 | 6 |
| 21 | Emergent $SU(4)$ symmetry in a quantum spin liquid. Physical Review X, 2018, 8, . | 7.8 | 64 |
| 22 | Inequivalent Berry Phases for the Bulk Polarization. Physical Review X, 2018, 8, . | 8.9 | 35 |
| 23 | Symmetry Protection of Critical Phases and a Global Anomaly in $1+1$ Dimensions. Physical Review Letters, 2017, 118, 021601. | 7.8 | 56 |
| 24 | Finite-size scaling of the Shannon-Rényi entropy in two-dimensional systems with spontaneously broken continuous symmetry. Physical Review B, 2017, 95, . | 3.2 | 8 |
| 25 | Signatures of Dirac Cones in a DMRG Study of the Kagome Heisenberg Model. Physical Review X, 2017, 7, . | 8.9 | 163 |
| 26 | Designing Kitaev Spin Liquids in Metal-Organic Frameworks. Physical Review Letters, 2017, 119, 057202. | 7.8 | 59 |
| 27 | Theory of electron spin resonance in one-dimensional topological insulators with spin-orbit couplings: Detection of edge states. Physical Review B, 2017, 96, . | 3.2 | 12 |
| 28 | Flux quench in a system of interacting spinless fermions in one dimension. Physical Review B, 2016, 93, . | 3.2 | 12 |
| 29 | Absence of Quantum Time Crystals. Physical Review Letters, 2015, 114, 251603. | 7.8 | 284 |
| 30 | Orbital Angular Momentum and Spectral Flow in Two-Dimensional Chiral Superfluids. Physical Review Letters, 2015, 114, 195301. | 7.8 | 54 |
| 31 | Distinct Trivial Phases Protected by a Point-Group Symmetry in Quantum Spin Chains. Physical Review Letters, 2015, 114, 177204. | 7.8 | 32 |
| 32 | Quantum criticality in an asymmetric three-leg spin tube: A strong rung-coupling perspective. Physical Review B, 2014, 89, . | 3.2 | 5 |
| 33 | Valence bond distribution and correlation in bipartite Heisenberg antiferromagnets. Physical Review B, 2014, 89, . | 3.2 | 2 |
| 34 | Ground-State Energies of Spinless Free Fermions and Hard-Core Bosons. Physical Review Letters, 2013, 111, 100402. | 7.8 | 15 |
| 35 | Hole statistics and superfluid phases in quantum dimer models. Physical Review B, 2013, 87, . | 3.2 | 11 |
| 36 | Electron spin resonance shifts in $S=1$ antiferromagnetic chains. Physical Review B, 2013, 87, . | 3.2 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Response to a twist in systems with Zp symmetry: The two-dimensional p -state clock model. Physical Review B, 2013, 88, . | 3.2 | 31 |
| 38 | Entanglement spectra between coupled Tomonaga-Luttinger liquids: Applications to ladder systems and topological phases. Physical Review B, 2013, 88, . | 3.2 | 45 |
| 39 | Dimensional crossover in layered f -electron superlattices. Physical Review B, 2013, 88, . | 3.2 | 7 |
| 40 | Correlation effects in two-dimensional topological insulators. Physical Review B, 2012, 85, . | 3.2 | 53 |
| 41 | Boundary Resonances in S Antiferromagnetic Chains Under a Staggered Field. Physical Review Letters, 2012, 109, 247603. | 7.8 | 18 |
| 42 | Thermodynamic properties of quantum sine-Gordon spin chain system KCuGaF $_{6}$. Physical Review B, 2012, 85, . | 3.2 | 12 |
| 43 | General method for calculating the universal conductance of strongly correlated junctions of multiple quantum wires. Physical Review B, 2012, 85, . | 3.2 | 30 |
| 44 | Quasiparticle statistics and braiding from ground-state entanglement. Physical Review B, 2012, 85, . | 3.2 | 260 |
| 45 | Instability in Magnetic Materials with a Dynamical Axion Field. Physical Review Letters, 2012, 108, 161803. | 7.8 | 45 |
| 46 | Symmetry protection of topological phases in one-dimensional quantum spin systems. Physical Review B, 2012, 85, . | 3.2 | 550 |
| 47 | Field theory analysis of S antiferromagnetic bond-alternating chains in the dimer phase. Physical Review B, 2012, 85, . | 3.2 | 12 |
| 48 | Mass ratio of elementary excitations in frustrated antiferromagnetic chains with dimerization. Physical Review B, 2012, 86, . | 3.2 | 2 |
| 49 | Electron Spin Resonance Shift in Spin Ladder Compounds. Physical Review Letters, 2012, 108, 037204. | 7.8 | 14 |
| 50 | Semiclassical approach to electron spin resonance in quantum spin systems. Physical Review B, 2011, 83, . | 3.2 | 9 |
| 51 | Elementary excitations and specific heat in quantum sine-Gordon spin chain KCuGaF $_{6}$. Physica E: Low-Dimensional Systems and Nanostructures, 2011, 43, 741-747. | 2.7 | 2 |
| 52 | Dynamical Theory of Superfluidity in One Dimension. Physical Review Letters, 2011, 107, 275302. | 7.8 | 37 |
| 53 | Single-ion anisotropy in Haldane chains and the form factor of the $O(3)$ sigma model. Physical Review B, 2011, 84, . | 3.2 | 7 |
| 54 | Four-dimensional XY quantum critical behavior of ^4He in nanoporous media. Physical Review B, 2011, 84, . | 3.2 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Quantum phase transitions in three-leg spin tubes. <i>Physical Review B</i> , 2010, 82, . | 3.2 | 21 |
| 56 | Entanglement spectrum of a topological phase in one dimension. <i>Physical Review B</i> , 2010, 81, . | 3.2 | 902 |
| 57 | Skyrmion in spinor condensates and its stability in trap potentials. <i>Physical Review A</i> , 2009, 79, . | 2.5 | 12 |
| 58 | Analytic Thermodynamics and Thermometry of Gaudin-Yang Fermi Gases. <i>Physical Review Letters</i> , 2009, 103, 140404. | 7.8 | 43 |
| 59 | Dynamics of One-Dimensional Bose Liquids: Andreev-Like Reflection at Y Junctions and the Absence of the Aharonov-Bohm Effect. <i>Physical Review Letters</i> , 2008, 100, 140402. | 7.8 | 48 |
| 60 | Magnetic-Field Induced Bose-Einstein Condensation of Magnons and Critical Behavior in Interacting Spin Dimer System TlCuCl_3 . <i>Journal of the Physical Society of Japan</i> , 2008, 77, 013701. | 1.6 | 66 |
| 61 | In-situ Observation of Lubrication Dynamics between Soft Elastomer and Glass Substrate. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 014602. | 1.6 | 1 |
| 62 | Reduced density matrices and topological order in a quantum dimer model. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 145212. | 1.8 | 6 |
| 63 | Universal Temperature Dependence of the Magnetization of Gapped Spin Chains. <i>Physical Review Letters</i> , 2007, 99, 057205. | 7.8 | 66 |
| 64 | Friction Coefficient between Rubber and Solid Substrate – Effect of Rubber Thickness. <i>Journal of the Physical Society of Japan</i> , 2007, 76, 043601. | 1.6 | 18 |
| 65 | Magnon bands of N -leg integer-spin antiferromagnetic systems in the weak-interchain-coupling regime. <i>Physical Review B</i> , 2007, 75, . | 3.2 | 13 |
| 66 | Topological degeneracy of non-Abelian states for dummies. <i>Annals of Physics</i> , 2007, 322, 1477-1498. | 2.8 | 38 |
| 67 | Saturated ferromagnetism from statistical transmutation. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 310, 1076-1078. | 2.3 | 0 |
| 68 | Systematic Derivation of Order Parameters through Reduced Density Matrices. <i>Physical Review Letters</i> , 2006, 96, 047211. | 7.8 | 35 |
| 69 | Fluctuating fringes. <i>Nature Physics</i> , 2006, 2, 663-664. | 16.7 | 0 |
| 70 | Junctions of three quantum wires. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2006, P02008-P02008. | 2.3 | 114 |
| 71 | Saturated Ferromagnetism from Statistical Transmutation in Two Dimensions. <i>Physical Review Letters</i> , 2006, 96, 036406. | 7.8 | 10 |
| 72 | Fractionalization, Topological Order, and Quasiparticle Statistics. <i>Physical Review Letters</i> , 2006, 96, 060601. | 7.8 | 83 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 73 | Stable Skyrmions in Spinor Condensates. <i>Physical Review Letters</i> , 2006, 97, 080403. | 7.8 | 24 |
| 74 | Direct Perturbation Theory on the Electron Spin Resonance Shift and Its Applications. <i>Journal of the Physical Society of Japan</i> , 2005, 74, 283-286. | 1.6 | 9 |
| 75 | Junction of Tomonaga-Luttinger liquids. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 29, 483-489. | 2.7 | 0 |
| 76 | Detection of Exotic Order Parameters of Quantum Antiferromagnets through Reduced Density Matrices. <i>Progress of Theoretical Physics Supplement</i> , 2005, 159, 143-147. | 0.1 | 0 |
| 77 | Exact Analysis of ESR Shift in the Spin-1/2 Heisenberg Antiferromagnetic Chain. <i>Physical Review Letters</i> , 2005, 95, 037602. | 7.8 | 25 |
| 78 | Random matrix theory analysis of cross correlations in financial markets. <i>Physical Review E</i> , 2004, 70, 026110. | 2.1 | 146 |
| 79 | Coupled $S=1/2$ Heisenberg antiferromagnetic chains in an effective staggered field. <i>Physical Review B</i> , 2004, 69, . | 3.2 | 39 |
| 80 | Bose-Einstein Condensation of Magnons in TiCuCl_3 : Phase Diagram and Specific Heat from a Self-consistent Hartree-Fock Calculation with a Realistic Dispersion Relation. <i>Journal of the Physical Society of Japan</i> , 2004, 73, 3429-3434. | 1.6 | 66 |
| 81 | Insulator, Conductor, and Commensurability: A Topological Approach. <i>Physical Review Letters</i> , 2003, 90, 236401. | 7.8 | 27 |
| 82 | Coexistence of $d_{x^2-y^2}$ -wave superconductivity and antiferromagnetism induced by a staggered field. <i>Physical Review B</i> , 2003, 68, . | 3.2 | 2 |
| 83 | Numerical analysis of electron-spin resonance in the spin-1/2 XY model. <i>Physical Review B</i> , 2003, 67, . | 3.2 | 11 |
| 84 | Comment on "Confinement of Slave Particles in $U(1)$ Gauge Theories of Strongly Interacting Electrons". <i>Physical Review Letters</i> , 2003, 91, 199701; discussion 199702. | 7.8 | 4 |
| 85 | Junctions of Three Quantum Wires and the Dissipative Hofstadter Model. <i>Physical Review Letters</i> , 2003, 91, 206403. | 7.8 | 123 |
| 86 | Two-Dimensional t-J Model in a Staggered Field. <i>AIP Conference Proceedings</i> , 2003, , . | 0.4 | 0 |
| 87 | ESR in Antiferromagnetic Chains: a Field-Theory Approach. <i>Journal of the Physical Society of Japan</i> , 2003, 72, 36-43. | 1.6 | 5 |
| 88 | Electron spin resonance in $S=1/2$ antiferromagnetic chains. <i>Physical Review B</i> , 2002, 65, . | 3.2 | 179 |
| 89 | ESR in Haldane Gap Systems Revisited. <i>Progress of Theoretical Physics Supplement</i> , 2002, 145, 253-258. | 0.1 | 0 |
| 90 | New Approach to Electron Spin Resonance in Quantum Spin Chains. <i>Progress of Theoretical Physics Supplement</i> , 2002, 145, 243-252. | 0.1 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 91 | Recent developments in low-temperature ESR in quantum antiferromagnetic chains. , 2002, , 15-26. | | 0 |
| 92 | Quantum brownian motion on a triangular lattice and boundary conformal field theory. Nuclear Physics B, 2001, 594, 535-606. | 2.5 | 59 |
| 93 | Boundary critical phenomena in $SU(3)$ 'spin' chains. Journal of Physics A, 2001, 34, 1073-1088. | 1.6 | 3 |
| 94 | Commensurability, Topology and Luttinger's Theorem in Quantum Many-Body Systems. , 2001, , 117-137. | | 0 |
| 95 | Magnetic anisotropy in Yb_4As_3 with one-dimensional Yb^{3+} chains. Physica B: Condensed Matter, 2000, 281-282, 465-467. | 2.7 | 9 |
| 96 | Commensurability, Excitation Gap, and Topology in Quantum Many-Particle Systems on a Periodic Lattice. Physical Review Letters, 2000, 84, 1535-1538. | 7.8 | 282 |
| 97 | Bose-Einstein Condensation of Dilute Magnons in $TiCuCl_3$. Physical Review Letters, 2000, 84, 5868-5871. | 7.8 | 615 |
| 98 | Topological Approach to Luttinger's Theorem and the Fermi Surface of a Kondo Lattice. Physical Review Letters, 2000, 84, 3370-3373. | 7.8 | 270 |
| 99 | Ordered phase and scaling in Zn models and the three-state antiferromagnetic Potts model in three dimensions. Physical Review B, 2000, 61, 3430-3434. | 3.2 | 56 |
| 100 | Field-induced gap in Cu benzoate and other $S=1/2$ antiferromagnetic chains. Physical Review B, 1999, 60, 1038-1056. | 3.2 | 284 |
| 101 | Low-Temperature Electron Spin Resonance Theory for Half-Integer Spin Antiferromagnetic Chains. Physical Review Letters, 1999, 82, 5136-5139. | 7.8 | 147 |
| 102 | Incommensurate State and Spin-Induced Peierls Instability. Physical Review Letters, 1999, 82, 2119-2122. | 7.8 | 16 |
| 103 | Voltage fluctuations on a superconductor grain attached to a quantum wire. Superlattices and Microstructures, 1999, 25, 1177-1183. | 3.1 | 2 |
| 104 | Characterization of a quasi-one-dimensional spin-1/2 magnet which is gapless and paramagnetic for $g < 1/4$. Physical Review B, 1999, 59, 1008-1015. | 3.2 | 151 |
| 105 | Field-Induced Gap Formation in Yb_4As_3 . Journal of the Physical Society of Japan, 1999, 68, 3181-3184. | 1.6 | 85 |
| 106 | Spontaneous magnetic flux and quantum noise in an annular mesoscopic SND junction. Journal of Physics Condensed Matter, 1998, 10, L105-L111. | 1.8 | 6 |
| 107 | Boundary critical phenomena in the three-state Potts model. Journal of Physics A, 1998, 31, 5827-5842. | 1.6 | 43 |
| 108 | Field-Induced Gap in $S=1/2$ Antiferromagnetic Chains. Physical Review Letters, 1997, 79, 2883-2886. | 7.8 | 309 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 109 | Impurity in a Luttinger liquid away from half-filling: A numerical study. Physical Review B, 1997, 56, 9766-9774. | 3.2 | 47 |
| 110 | Nonperturbative Approach to Luttinger's Theorem in One Dimension. Physical Review Letters, 1997, 79, 1110-1113. | 7.8 | 143 |
| 111 | Magnetization Plateaus in Spin Chains: "Haldane Gap" for Half-Integer Spins. Physical Review Letters, 1997, 78, 1984-1987. | 7.8 | 620 |
| 112 | Boundary conformal field theory approach to the critical two-dimensional Ising model with a defect line. Nuclear Physics B, 1997, 495, 533-582. | 2.5 | 188 |
| 113 | Chiral Anomaly and Spin Gap in One-Dimensional Interacting Fermions. Journal of the Physical Society of Japan, 1996, 65, 2241-2248. | 1.6 | 34 |
| 114 | Hidden Order and Dimerization Transition in $S=2$ Chains. Journal of the Physical Society of Japan, 1996, 65, 1562-1565. | 1.6 | 16 |
| 115 | Defect Lines in the Ising Model and Boundary States on Orbifolds. Physical Review Letters, 1996, 77, 2604-2607. | 7.8 | 53 |
| 116 | THE EFFECT OF DYNAMICAL GAUGE FIELD ON THE CHIRAL FERMION ON A BOUNDARY. Modern Physics Letters A, 1994, 09, 1755-1765. | 1.2 | 9 |
| 117 | Quantized Hall conductivity of Bloch electrons: Topology and the Dirac fermion. Physical Review B, 1994, 50, 17357-17363. | 3.2 | 37 |
| 118 | Fractal structure in two-dimensional quantum Regge calculus. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 338, 187-196. | 4.1 | 9 |
| 119 | Hidden $Z_2 \times Z_2$ symmetry in quantum spin chains with arbitrary integer spin. Journal of Physics Condensed Matter, 1992, 4, 7469-7488. | 1.8 | 153 |