

Thierry Giamarchi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1153474/publications.pdf>

Version: 2024-02-01

299
papers

18,608
citations

17429

63
h-index

17580

121
g-index

303
all docs

303
docs citations

303
times ranked

8295
citing authors

#	ARTICLE	IF	CITATIONS
1	One dimensional bosons: From condensed matter systems to ultracold gases. <i>Reviews of Modern Physics</i> , 2011, 83, 1405-1466.	16.4	816
2	Anderson localization and interactions in one-dimensional metals. <i>Physical Review B</i> , 1988, 37, 325-340.	1.1	736
3	Elastic theory of flux lattices in the presence of weak disorder. <i>Physical Review B</i> , 1995, 52, 1242-1270.	1.1	608
4	Bose-Einstein condensation in magnetic insulators. <i>Nature Physics</i> , 2008, 4, 198-204.	6.5	597
5	Domain Wall Creep in an Ising Ultrathin Magnetic Film. <i>Physical Review Letters</i> , 1998, 80, 849-852.	2.9	554
6	Domain Wall Creep in Epitaxial Ferroelectric $\text{Pb}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ Thin Films. <i>Physical Review Letters</i> , 2002, 89, 097601.	2.9	488
7	Elastic theory of pinned flux lattices. <i>Physical Review Letters</i> , 1994, 72, 1530-1533.	2.9	442
8	Quantum dynamics of a mobile spin impurity. <i>Nature Physics</i> , 2013, 9, 235-241.	6.5	418
9	Phase diagrams of flux lattices with disorder. <i>Physical Review B</i> , 1997, 55, 6577-6583.	1.1	382
10	Creep and depinning in disordered media. <i>Physical Review B</i> , 2000, 62, 6241-6267.	1.1	381
11	Coupled ladders in a magnetic field. <i>Physical Review B</i> , 1999, 59, 11398-11407.	1.1	330
12	Quantum dynamics of impurities in a one-dimensional Bose gas. <i>Physical Review A</i> , 2012, 85, .	1.0	270
13	Moving Glass Phase of Driven Lattices. <i>Physical Review Letters</i> , 1996, 76, 3408-3411.	2.9	249
14	Moving glass theory of driven lattices with disorder. <i>Physical Review B</i> , 1998, 57, 11356-11403.	1.1	226
15	Umklapp process and resistivity in one-dimensional fermion systems. <i>Physical Review B</i> , 1991, 44, 2905-2913.	1.1	199
16	Domain Wall Roughness in Epitaxial Ferroelectric $\text{PbZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$ Thin Films. <i>Physical Review Letters</i> , 2005, 94, 197601.	2.9	199
17	Critical properties of gapped spin-chains and ladders in a magnetic field. <i>Physical Review B</i> , 1997, 55, 5816-5826.	1.1	198
18	On-chain electrostatics of metallic $(\text{TMTSF})_2\text{X}$ salts: Observation of Tomonaga-Luttinger liquid response. <i>Physical Review B</i> , 1998, 58, 1261-1271.	1.1	197

#	ARTICLE	IF	CITATIONS
19	Correlation functions of one-dimensional quantum systems. <i>Physical Review B</i> , 1989, 39, 4620-4629.	1.1	191
20	Mott transition in one dimension. <i>Physica B: Condensed Matter</i> , 1997, 230-232, 975-980.	1.3	184
21	Rise and fall of hidden string order of lattice bosons. <i>Physical Review B</i> , 2008, 77, .	1.1	179
22	Controlling Luttinger Liquid Physics in Spin Ladders under a Magnetic Field. <i>Physical Review Letters</i> , 2008, 101, 137207.	2.9	171
23	Quasiperiodic Bose-Hubbard model and localization in one-dimensional cold atomic gases. <i>Physical Review A</i> , 2008, 78, .	1.0	164
24	Localization and Interaction in One-Dimensional Quantum Fluids. <i>Europhysics Letters</i> , 1987, 3, 1287-1293.	0.7	159
25	Phase diagrams of the two-dimensional Hubbard and t - J models by a variational Monte Carlo method. <i>Physical Review B</i> , 1991, 43, 12943-12951.	1.1	156
26	A Bragg glass phase in the vortex lattice of a type II superconductor. <i>Nature</i> , 2001, 413, 404-406.	13.7	150
27	Theoretical Framework for Quasi-One Dimensional Systems. <i>Chemical Reviews</i> , 2004, 104, 5037-5056.	23.0	150
28	Thermodynamics of the Spin Luttinger Liquid in a Model Ladder Material. <i>Physical Review Letters</i> , 2008, 101, 247202.	2.9	149
29	Meissner effect in a bosonic ladder. <i>Physical Review B</i> , 2001, 64, .	1.1	139
30	Quantum critical states and phase transitions in the presence of non-equilibrium noise. <i>Nature Physics</i> , 2010, 6, 806-810.	6.5	132
31	Persistent currents in a one-dimensional ring for a disordered Hubbard model. <i>Physical Review B</i> , 1995, 51, 10915-10922.	1.1	127
32	Nanoscale studies of domain wall motion in epitaxial ferroelectric thin films. <i>Journal of Applied Physics</i> , 2006, 100, 051608.	1.1	112
33	Connecting strongly correlated superfluids by a quantum point contact. <i>Science</i> , 2015, 350, 1498-1501.	6.0	108
34	Statics and dynamics of weakly coupled antiferromagnetic spin- $\frac{1}{2}$ chains in a magnetic field. <i>Physical Review B</i> , 2011, 83, .	1.1	107
35	Probing Real-Space and Time-Resolved Correlation Functions with Many-Body Ramsey Interferometry. <i>Physical Review Letters</i> , 2013, 111, 147205.	2.9	104
36	Spin Dynamics in a One-Dimensional Ferromagnetic Bose Gas. <i>Physical Review Letters</i> , 2007, 99, 240404.	2.9	103

#	ARTICLE	IF	CITATIONS
37	Theory of spin-anisotropic electron-electron interactions in quasi-one-dimensional metals. Journal De Physique, 1988, 49, 819-835.	1.8	102
38	Mode-Coupling-Induced Dissipative and Thermal Effects at Long Times after a Quantum Quench. Physical Review Letters, 2011, 107, 150602.	2.9	102
39	Deconfinement Transition and Luttinger to Fermi Liquid Crossover in Quasi-One-Dimensional Systems. Physical Review Letters, 2001, 87, 276405.	2.9	101
40	Spectroscopy of Ultracold Atoms by Periodic Lattice Modulations. Physical Review Letters, 2006, 97, 050402.	2.9	100
41	Orbital Currents in Extended Hubbard Models of High- T_c Cuprate Superconductors. Physical Review Letters, 2009, 102, 017005.	2.9	99
42	Observation of a Disordered Bosonic Insulator from Weak to Strong Interactions. Physical Review Letters, 2014, 113, 095301.	2.9	93
43	Effects of disorder on two strongly correlated coupled chains. Physical Review B, 1997, 56, 7167-7188.	1.1	87
44	Dynamics below the Depinning Threshold in Disordered Elastic Systems. Physical Review Letters, 2006, 97, 057001.	2.9	85
45	Conductivity of a Luttinger liquid. Physical Review B, 1992, 46, 9325-9331.	1.1	82
46	Broadening of the Berezinskii-Kosterlitz-Thouless superconducting transition by inhomogeneity and finite-size effects. Physical Review B, 2009, 80, .	1.1	82
47	Field-controlled magnetic order in the quantum spin-ladder system H_{pip} . Physical Review B, 2009, 79, .	1.1	80
48	Variational theory of elastic manifolds with correlated disorder and localization of interacting quantum particles. Physical Review B, 1996, 53, 15206-15225.	1.1	79
49	Correlated Fermions in a One-Dimensional Quasiperiodic Potential. Physical Review Letters, 1999, 83, 3908-3911.	2.9	77
50	Creep dynamics of elastic manifolds via exact transition pathways. Physical Review B, 2009, 79, .	1.1	77
51	Matrix product state applications for the ALPS project. Computer Physics Communications, 2014, 185, 3430-3440.	3.0	76
52	Variational Monte Carlo study of incommensurate antiferromagnetic phases in the two-dimensional Hubbard model. Physical Review B, 1990, 42, 10641-10647.	1.1	75
53	Pinned Wigner crystals. Physical Review B, 2001, 65, .	1.1	75
54	Creep Motion of an Elastic String in a Random Potential. Physical Review Letters, 2005, 94, 047002.	2.9	75

#	ARTICLE	IF	CITATIONS
55	Spin-charge separation in two-component Bose gases. <i>Physical Review A</i> , 2008, 77, .	1.0	75
56	Pinning-Dependent Field-Driven Domain Wall Dynamics and Thermal Scaling in an Ultrathin PtCo Film. <i>Physical Review Letters</i> , 2014, 113, 027205.	2.9	73
57	Kosterlitz-Thouless Behavior in Layered Superconductors: The Role of the Vortex Core Energy. <i>Physical Review Letters</i> , 2007, 98, 117008.	2.9	72
58	Two-Component Fermi Gas on Internal-State-Dependent Optical Lattices. <i>Physical Review Letters</i> , 2005, 95, 226402.	2.9	69
59	Filming the formation and fluctuation of skyrmion domains by cryo-Lorentz transmission electron microscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 14212-14217.	3.3	68
60	Resistivity of a one-dimensional interacting quantum fluid. <i>Physical Review B</i> , 1992, 46, 342-349.	1.1	66
61	Dynamics and universality in noise-driven dissipative systems. <i>Physical Review B</i> , 2012, 85, .	1.1	66
62	Topological quantum phase transition in the Ising-like antiferromagnetic spin chain BaCo ₂ V ₂ O ₈ . <i>Nature Physics</i> , 2018, 14, 716-722.	6.5	66
63	Replica Symmetry Breaking Instability in the 2DXY Model in a Random Field. <i>Physical Review Letters</i> , 1995, 74, 606-609.	2.9	65
64	Modulation spectroscopy with ultracold fermions in an optical lattice. <i>Physical Review A</i> , 2006, 74, .	1.0	63
65	Curie and non-Curie behavior of impurity spins in quantum antiferromagnets. <i>Physical Review B</i> , 1993, 48, 7070-7076.	1.1	62
66	Singular low energy properties of an impurity model with finite range interactions. <i>Physical Review Letters</i> , 1993, 70, 3967-3970.	2.9	62
67	Thermal rounding of the depinning transition. <i>Europhysics Letters</i> , 2008, 81, 26005.	0.7	62
68	Creep via dynamical functional renormalization group. <i>Europhysics Letters</i> , 1998, 44, 110-115.	0.7	61
69	Scanning tunneling microscopy for ultracold atoms. <i>Physical Review A</i> , 2007, 76, .	1.0	58
70	Spectral and Thermodynamic Properties of a Strong-Leg Quantum Spin Ladder. <i>Physical Review Letters</i> , 2012, 108, 167201.	2.9	58
71	Dynamical Properties of the Pinned Wigner Crystal. <i>Physical Review Letters</i> , 1998, 80, 3827-3830.	2.9	56
72	Band and Correlated Insulators of Cold Fermions in a Mesoscopic Lattice. <i>Physical Review X</i> , 2018, 8, .	2.8	56

#	ARTICLE	IF	CITATIONS
73	Stability of the Bragg glass phase in a layered geometry. Europhysics Letters, 1996, 35, 379-384.	0.7	55
74	Chemical pressure and hidden one-dimensional behavior in rare-earth tri-telluride charge-density wave compounds. Physical Review B, 2006, 74, .	1.1	54
75	Interchain conductivity of coupled Luttinger liquids and organic conductors. Physical Review B, 2000, 61, 16393-16396.	1.1	53
76	Interacting Bose gases in quasi-one-dimensional optical lattices. New Journal of Physics, 2006, 8, 158-158.	1.2	53
77	Energy absorption of a Bose gas in a periodically modulated optical lattice. Physical Review A, 2006, 73, .	1.0	53
78	Quantum simulation of the Hubbard model: The attractive route. Physical Review A, 2009, 79, .	1.0	53
79	Thermalization and dissipation in out-of-equilibrium quantum systems: A perturbative renormalization group approach. Physical Review B, 2012, 85, .	1.1	53
80	Phase Transition of Interacting Disordered Bosons in One Dimension. Physical Review Letters, 2012, 109, 026402.	2.9	53
81	Competition of random and periodic potentials in interacting fermionic systems and classical equivalents: The Mott glass. Physical Review B, 2001, 64, .	1.1	52
82	Interacting fermions in self-similar potentials. Physical Review B, 2001, 65, .	1.1	52
83	Design and Evaluation of a Crystalline Hybrid of Molecular Conductors and Molecular Rotors. Journal of the American Chemical Society, 2012, 134, 7880-7891.	6.6	52
84	Variable-Range Hopping and Quantum Creep in One Dimension. Physical Review Letters, 2003, 91, 056603.	2.9	50
85	Breakup of the Fermi Surface Near the Mott Transition in Low-Dimensional Systems. Physical Review Letters, 2006, 97, 136401.	2.9	50
86	Deconfinement in a 2D Optical Lattice of Coupled 1D Boson Systems. Physical Review Letters, 2004, 92, 130405.	2.9	48
87	Nonequilibrium Relaxation of an Elastic String in a Random Potential. Physical Review Letters, 2005, 95, 180604.	2.9	48
88	Weakly disordered spin ladders. Physical Review B, 1998, 57, 5812-5829.	1.1	47
89	Mott transition for strongly interacting one-dimensional bosons in a shallow periodic potential. Physical Review A, 2016, 93, .	1.0	47
90	Flux quantization and pairing in one-dimensional copper-oxide models. Physical Review Letters, 1993, 70, 978-981.	2.9	46

#	ARTICLE	IF	CITATIONS
91	Scaling behavior of the longitudinal and transverse transport in quasi-one-dimensional organic conductors. <i>Physical Review B</i> , 2005, 71, .	1.1	46
92	Spectroscopy for Cold Atom Gases in Periodically Phase-Modulated Optical Lattices. <i>Physical Review Letters</i> , 2011, 106, 205301.	2.9	46
93	Transport properties of a quantum wire in the presence of impurities and long-range Coulomb forces. <i>Physical Review B</i> , 1995, 51, 10833-10843.	1.1	45
94	Disordered elastic systems and one-dimensional interfaces. <i>Physica B: Condensed Matter</i> , 2012, 407, 1725-1733.	1.3	45
95	Spectrum of a Magnetized Strong-Leg Quantum Spin Ladder. <i>Physical Review Letters</i> , 2013, 111, 107202.	2.9	44
96	Lieb-Liniger Bosons in a Shallow Quasiperiodic Potential: Bose Glass Phase and Fractal Mott Lobes. <i>Physical Review Letters</i> , 2020, 125, 060401.	2.9	44
97	Phase Diagram of a Three-Orbital Model for High- T_c Superconductors. <i>Physical Review Letters</i> , 2014, 112, 117001.	2.9	43
98	Magnetism and superconductivity of strongly correlated electrons on the triangular lattice. <i>Physical Review B</i> , 2006, 73, .	1.1	42
99	Effects of long-range electronic interactions on a one-dimensional electron system. <i>Physical Review B</i> , 2000, 61, 13410-13417.	1.1	41
100	Two-Dimensional Fermi Liquid with Attractive Interactions. <i>Physical Review Letters</i> , 2012, 109, 130403.	2.9	41
101	Scanning-Tunneling Spectroscopy of Surface-State Electrons Scattered by a Slightly Disordered Two-Dimensional Dilute Ce on $\text{Ag}(111)$. <i>Physical Review Letters</i> , 2004, 93, 146805.	2.9	40
102	Short-time relaxation of a driven elastic string in a random medium. <i>Physical Review B</i> , 2006, 74, .	1.1	40
103	Dipolar Bosons in a Planar Array of One-Dimensional Tubes. <i>Physical Review Letters</i> , 2008, 100, 130403.	2.9	39
104	Possible New Phase of Commensurate Insulators with Disorder: The Mott Glass. <i>Physical Review Letters</i> , 1999, 83, 2378-2381.	2.9	37
105	Thermal quench effects on ferroelectric domain walls. <i>Physical Review B</i> , 2012, 85, .	1.1	36
106	Symmetric and asymmetric excitations of a strong-leg quantum spin ladder. <i>Physical Review B</i> , 2013, 88, .	1.1	36
107	Spatiotemporal Patterns in Ultraslow Domain Wall Creep Dynamics. <i>Physical Review Letters</i> , 2017, 118, 147208.	2.9	36
108	Measurement of the Dynamical Structure Factor of a 1D Interacting Fermi Gas. <i>Physical Review Letters</i> , 2018, 121, 103001.	2.9	35

#	ARTICLE	IF	CITATIONS
109	Vortices in coupled planes with columnar disorder and bosonic ladders. Physical Review B, 1998, 57, 11713-11729.	1.1	34
110	Dynamics of an impurity in a one-dimensional lattice. New Journal of Physics, 2013, 15, 045018.	1.2	34
111	Critical properties and Bose-Einstein condensation in dimer spin systems. Physical Review B, 2007, 75, .	1.1	33
112	Point-Contact Tunneling Involving Low-Dimensional Spin-Triplet Superconductors. Physical Review Letters, 2004, 92, 127001.	2.9	32
113	Dynamics of Disordered Elastic Systems. , 2006, , 91-108.		32
114	Tunneling conductance and local density of states in tight-binding junctions. Physical Review B, 2011, 84, .	1.1	32
115	Band Filling and Cross Quantum Capacitance in Ion-Gated Semiconducting Transition Metal Dichalcogenide Monolayers. Nano Letters, 2019, 19, 8836-8845.	4.5	32
116	Phase coherence in out-of-equilibrium supersolid states of ultracold dipolar atoms. Nature Physics, 2021, 17, 356-361.	6.5	32
117	Mott-superfluid transition in bosonic ladders. Physical Review B, 2001, 63, .	1.1	31
118	Dislocations and Bragg glasses in two dimensions. Physica C: Superconductivity and Its Applications, 2000, 331, 233-240.	0.6	30
119	Orbital current patterns in doped two-leg Cu-O Hubbard ladders. Physical Review B, 2008, 78, .	1.1	30
120	Vortex Phases. Lecture Notes in Physics, 2002, , 314-360.	0.3	30
121	Keldysh study of point-contact tunneling between superconductors. Physical Review B, 2005, 71, .	1.1	29
122	Edge exponent in the dynamic spin structure factor of the Yang-Gaudin model. Physical Review B, 2009, 80, .	1.1	29
123	Luttinger-liquid theory of purple bronze $\text{Li}_{0.9}\text{Mo}_6\text{O}_{16}$. Physical Review B, 2009, 80, .	1.1	29
124	Spontaneously magnetized Tomonaga-Luttinger liquid in frustrated quantum antiferromagnets. Physical Review B, 2014, 89, .	1.1	29
125	Spin-anisotropic electron-electron interactions in one-dimensional metals. Physical Review B, 1986, 33, 2066-2069.	1.1	28
126	Theory of the marginal-Fermi-liquid spectrum and pairing in a local copper oxide model. Physical Review Letters, 1994, 72, 2478-2481.	2.9	28

#	ARTICLE	IF	CITATIONS
127	Thermal rounding exponent of the depinning transition of an elastic string in a random medium. Physical Review E, 2012, 85, 021144.	0.8	28
128	Nonequilibrium dynamics of coupled Luttinger liquids. Physical Review A, 2015, 91, .	1.0	28
129	Giamarchi and Le Doussal Reply:. Physical Review Letters, 1997, 78, 752-752.	2.9	27
130	Adiabatic-antiadiabatic crossover in a spin-Peierls chain. Physical Review B, 2005, 72, .	1.1	27
131	Dynamical Properties of the One-Dimensional Spin- $\frac{1}{2}$ Bose-Hubbard Model near a Mott-Insulator to Ferromagnetic-Liquid Transition. Physical Review Letters, 2009, 103, 110401.	2.9	27
132	Depinning of domain walls with an internal degree of freedom. Physical Review B, 2009, 80, .	1.1	27
133	Magnetic entropy landscape and Gr $\frac{1}{4}$ neisen parameter of a quantum spin ladder. Physical Review B, 2014, 89, .	1.1	27
134	Thermal rounding of the depinning transition in ultrathin Pt/Co/Pt films. Physical Review B, 2012, 85, .	1.1	26
135	Multiscaling Analysis of Ferroelectric Domain Wall Roughness. Physical Review Letters, 2012, 109, 147601.	2.9	26
136	Domain Wall Roughness in Stripe Phase BiFeO_3 Thin Films. Physical Review Letters, 2013, 111, 247604.	2.9	26
137	Translational Order and Neutron Diffraction Studies of Magnetic Flux Lattices. Physical Review Letters, 1995, 75, 3372-3372.	2.9	25
138	Fourier transform of the 2k Luttinger liquid density correlation function with different spin and charge velocities. Physical Review B, 2007, 75, .	1.1	25
139	Spin ladders and quantum simulators for Tomonaga's Luttinger liquids. Journal of Physics Condensed Matter, 2013, 25, 014004.	0.7	25
140	Competing Regimes of Motion of 1D Mobile Impurities. Physical Review Letters, 2014, 113, 070601.	2.9	25
141	Onset of surface superconductivity. Physical Review B, 1990, 41, 11033-11046.	1.1	24
142	Doping dependence of the vortex-core energy in bilayer films of cuprates. Physical Review B, 2008, 77, .	1.1	24
143	Effects of weak disorder on two coupled Hubbard chains. Physical Review B, 1996, 53, R10453-R10456.	1.1	23
144	Commensurate-incommensurate transition in two-coupled chains of nearly half-filled electrons. European Physical Journal B, 2001, 19, 185-193.	0.6	23

#	ARTICLE	IF	CITATIONS
145	Excitations in two-component Bose gases. <i>New Journal of Physics</i> , 2008, 10, 045025.	1.2	23
146	Temperature-induced crossovers in the static roughness of a one-dimensional interface. <i>Physical Review B</i> , 2010, 82, .	1.1	23
147	Random-manifold to random-periodic depinning of an elastic interface. <i>Physical Review B</i> , 2010, 82, .	1.1	23
148	SOME EXPERIMENTAL TESTS OF TOMONAGAâ€™LUTTINGER LIQUIDS. <i>International Journal of Modern Physics B</i> , 2012, 26, 1244004.	1.0	22
149	Hall effect and interchain magneto-optical properties of coupled Luttinger liquids. <i>Physical Review B</i> , 2001, 63, .	1.1	21
150	Zero field Wigner crystal. <i>European Physical Journal B</i> , 2005, 44, 455-467.	0.6	21
151	Static fluctuations of a thick one-dimensional interface in the 1+1 directed polymer formulation. <i>Physical Review E</i> , 2013, 87, 042406.	0.8	21
152	Relaxation dynamics of two coherently coupled one-dimensional bosonic gases. <i>European Physical Journal: Special Topics</i> , 2017, 226, 2763-2774.	1.2	21
153	Universal Hall Response in Interacting Quantum Systems. <i>Physical Review Letters</i> , 2019, 122, 083402.	2.9	21
154	Effects of thermal and spin fluctuations on the band structure of purple bronze $\text{Li}_2\text{Mo}_2\text{O}_3$. <i>Physical Review B</i> , 2012, 85, .	1.1	20
155	Superfluid/Bose-glass transition in one dimension. <i>Physical Review B</i> , 2014, 90, .	1.1	20
156	Numerical Simulation Evidence of Dynamical Transverse Meissner Effect and Moving Bose Glass Phase. <i>Physical Review Letters</i> , 2003, 91, 037005.	2.9	19
157	Sine-Gordon Description of Beresinskii-Kosterlitz-Thouless Vortices in Superconductors Immersed in an External Magnetic Field. <i>Physical Review Letters</i> , 2007, 99, 207002.	2.9	19
158	Lattice modulation spectroscopy of strongly interacting bosons in disordered and quasiperiodic optical lattices. <i>Physical Review A</i> , 2009, 80, .	1.0	19
159	Electron spin resonance modes in a strong-leg ladder in the Tomonaga-Luttinger liquid phase. <i>Physical Review B</i> , 2015, 92, .	1.1	19
160	STATICS AND DYNAMICS OF DISORDERED ELASTIC SYSTEMS. <i>Series on Directions in Condensed Matter Physics</i> , 1997, , 321-356.	0.1	19
161	Generic transport formula for a system driven by Markovian reservoirs. <i>Physical Review B</i> , 2020, 102, .	1.1	18
162	Creep Motion of Elastic Interfaces Driven in a Disordered Landscape. <i>Annual Review of Condensed Matter Physics</i> , 2021, 12, 111-134.	5.2	18

#	ARTICLE	IF	CITATIONS
163	The time-dependent correlation function of the Jordan-Wigner operator as a Fredholm determinant. Journal of Statistical Mechanics: Theory and Experiment, 2009, 2009, P07035.	0.9	17
164	Temperature dependence of the NMR spin-lattice relaxation rate for spin- $\frac{1}{2}$ systems. Physical Review B, 2016, 94, .	1.4	17
165	Probing one-dimensional systems via noise magnetometry with single spin qubits. Physical Review B, 2018, 98, .	1.1	17
166	Tomonaga-Luttinger Liquid Spin Dynamics in the Quasi-One-Dimensional Ising-Like Antiferromagnet $\text{BaCo}_2\text{V}_2\text{O}_8$. Physical Review Letters, 2019, 123, 027204.	1.7	17
167	Pairing fluctuations in a one-dimensional copper oxide model. Physical Review B, 1995, 51, 553-560.	1.1	16
168	Spinless fermion ladders at half filling. Physical Review B, 2001, 63, .	1.1	16
169	Dynamic Compressibility and Aging in Wigner Crystals and Quantum Glasses. Physical Review Letters, 2006, 96, 217203.	2.9	16
170	Phase diagram of hole doped two-leg CuO ladders. Physical Review B, 2007, 76, .	1.1	16
171	Finite-temperature correlations in a quantum spin chain near saturation. Physical Review B, 2017, 96, .	1.1	16
172	Understanding repulsively mediated superconductivity of correlated electrons via massively parallel density matrix renormalization group. Physical Review B, 2019, 100, .	1.1	16
173	Renormalized Inter-Chain Hopping vs Charge Gap in Two Coupled Chains. Progress of Theoretical Physics, 1999, 101, 763-768.	2.0	15
174	Dimensional crossover and deconfinement in Bechgaard salts. European Physical Journal Special Topics, 2004, 114, 23-28.	0.2	15
175	Competition of spin and charge excitations in the one-dimensional Hubbard model. Physical Review A, 2013, 88, .	1.0	15
176	Dispersion relation of a single hole in the t - J model determined by a variational Monte Carlo method. Physical Review B, 1993, 47, 2775-2779.	1.1	14
177	Competition between vortex unbinding and tunneling in an optical lattice. Physical Review A, 2007, 75, .	1.0	14
178	Electron Spin Resonance Shift in Spin Ladder Compounds. Physical Review Letters, 2012, 108, 037204.	2.9	14
179	Finite-temperature effects on interacting bosonic one-dimensional systems in disordered lattices. Physical Review A, 2016, 93, .	1.0	14
180	Dynamic Manipulation in Piezoresponse Force Microscopy: Creating Nonequilibrium Phases with Large Electromechanical Response. ACS Nano, 2020, 14, 10569-10577.	7.3	14

#	ARTICLE	IF	CITATIONS
181	Disordered periodic systems at the upper critical dimension. Physical Review B, 1999, 59, 4058-4065.	1.1	13
182	Dynamical transverse Meissner effect and transition in moving Bose glass. Physical Review B, 2000, 61, R11906-R11909.	1.1	13
183	Hall effect in strongly correlated low-dimensional systems. Physical Review B, 2007, 75, .	1.1	13
184	Superconductor-to-insulator transition in linear arrays of Josephson junctions capacitively coupled to metallic films. Physical Review B, 2011, 84, .	1.1	13
185	Lattice-Assisted Spectroscopy: A Generalized Scanning Tunneling Microscope for Ultracold Atoms. Physical Review Letters, 2015, 115, 165301.	2.9	13
186	Dimensional modulation of spontaneous magnetic order in quasi-two-dimensional quantum antiferromagnets. Physical Review B, 2016, 94, .	1.1	13
187	Large-scale thermalization, prethermalization, and impact of temperature in the quench dynamics of two unequal Luttinger liquids. Physical Review Research, 2021, 3, .	1.3	13
188	Local Probe Comparison of Ferroelectric Switching Event Statistics in the Creep and Depinning Regimes in $\text{PbZr}_{0.2}\text{Ti}_{0.8}\text{O}_3$	2.9	13
189	Nanoscale Studies of Domain Walls in Epitaxial Ferroelectric Thin Films. , 2007, , 339-362.		13
190	X-ray spectrum of a pinned charge density wave. Physical Review B, 2004, 70, .	1.1	12
191	Finite-temperature and finite-time scaling of the directed polymer free energy with respect to its geometrical fluctuations. Physical Review E, 2012, 86, 031144.	0.8	12
192	Static fluctuations of a thick one-dimensional interface in the 1+1 directed polymer formulation: Numerical study. Physical Review E, 2013, 87, 062405.	0.8	12
193	Bound States and Field-Polarized Haldane Modes in a Quantum Spin Ladder. Physical Review Letters, 2017, 118, 177202.	2.9	12
194	Topological transition between competing orders in quantum spin chains. Physical Review B, 2018, 98, .	1.1	12
195	Coulomb blockade in a quantum wire with long-range interactions. Europhysics Letters, 1997, 38, 681-686.	0.7	11
196	Random phase approximation study of one-dimensional fermions after a quantum quench. Physical Review B, 2011, 84, .	1.1	11
197	Doublon production rate in modulated optical lattices. Physical Review A, 2012, 85, .	1.0	11
198	Dynamics of a mobile impurity in a two-leg bosonic ladder. Physical Review A, 2019, 100, .	1.0	11

#	ARTICLE	IF	CITATIONS
199	Polarization dependence of angle-resolved photoemission with submicron spatial resolution reveals emerging one-dimensionality of electrons in NbSe_3 . Physical Review B, 2019, 99, .	1.1	11
200	From bulk descriptions to emergent interfaces: Connecting the Ginzburg-Landau and elastic-line models. Physical Review B, 2020, 102, .	1.1	11
201	Roughness and dynamics of proliferating cell fronts as a probe of cell-cell interactions. Scientific Reports, 2021, 11, 8869.	1.6	11
202	Quenches in initially coupled Tomonaga-Luttinger Liquids: a conformal field theory approach. SciPost Physics, 2021, 11, .	1.5	11
203	Probing the Hall Voltage in Synthetic Quantum Systems. Physical Review Letters, 2021, 126, 030501.	2.9	11
204	Disordered Elastic Media. , 2009, , 2019-2038.		11
205	Exact description of quantum stochastic models as quantum resistors. Physical Review Research, 2022, 4, .	1.3	11
206	Baber scattering and resistivity of a two-dimensional two-band model. Physical Review B, 1992, 46, 5528-5535.	1.1	10
207	Dissipation-driven phase transitions in superconducting wires. Physical Review B, 2009, 80, .	1.1	10
208	Spin correlations and doublon production rate for fermionic atoms in modulated optical lattices. Physical Review A, 2012, 85, .	1.0	10
209	One-dimensional physics in the 21st century. Comptes Rendus Physique, 2016, 17, 322-331.	0.3	10
210	Vanishing Hall Response of Charged Fermions in a Transverse Magnetic Field. Physical Review Letters, 2019, 123, 086803.	2.9	10
211	Quasi One-Dimensional Organic Conductors: Dimensional Crossover and Some Puzzles. , 2002, , 81-102.		10
212	X-ray diffraction of a disordered charge density wave. Physical Review B, 2003, 68, .	1.1	9
213	Theory of cross quantum capacitance. Physical Review Research, 2021, 3, .	1.3	9
214	Specific Heat of Classical Disordered Elastic Systems. Physical Review Letters, 2003, 91, 117002.	2.9	8
215	Collective excitations and low-temperature transport properties of bismuth. Physical Review B, 2011, 84, .	1.1	8
216	Finite-temperature dynamical correlations for the dimerized spin- $\frac{1}{2}$ chain. Physical Review B, 2018, 98, .		

#	ARTICLE	IF	CITATIONS
217	Strongly correlated bosons and fermions in optical lattices. , 2012, , 1-70.		8
218	Strong Correlations in Low Dimensional Systems. AIP Conference Proceedings, 2006, , .	0.3	7
219	Hall effect on the triangular lattice. Physical Review B, 2008, 78, .	1.1	7
220	Luttinger liquid physics in the spin ladder material $\text{CuBr}_4(\text{C}_5\text{H}_{12}\text{N}_2)$. Physica Status Solidi (B): Basic Research, 2010, 247, 656-658.	0.7	7
221	Lattice modulation spectroscopy of one-dimensional quantum gases: Universal scaling of the absorbed energy. Physical Review Research, 2020, 2, .	1.3	7
222	Impurity Pinning vs Superconductivity in Quasi-One-Dimensional Electron, Systems. Journal of the Physical Society of Japan, 1989, 58, 1748-1754.	0.7	6
223	Bragg- and Moving-glasses: a theory of disordered vortex lattices. Physica C: Superconductivity and Its Applications, 1997, 282-287, 363-366.	0.6	6
224	Domain wall creep in mixed c-a axis $\text{Pb}(\text{Zr}_{0.2}\text{Ti}_{0.8})\text{O}_3$ thin films. Annalen Der Physik, 2004, 13, 95-96.	0.9	6
225	Thermal effects in the dynamics of disordered elastic systems. Physica B: Condensed Matter, 2009, 404, 444-446.	1.3	6
226	Dissipative phase fluctuations in superconducting wires capacitively coupled to diffusive metals. Physical Review B, 2010, 82, .	1.1	6
227	Noise and topology in driven systems – an application to interface dynamics. Nonlinearity, 2012, 25, 1427-1441.	0.6	6
228	Controlled parity switch of persistent currents in quantum ladders. Physical Review B, 2018, 97, .	1.1	6
229	Bulk pumping in two-dimensional topological phases. Physical Review B, 2019, 99, .	1.1	6
230	Spin transport in a one-dimensional quantum wire. Physical Review Research, 2020, 2, .	1.3	6
231	A new random-number generator for multispin Monte Carlo algorithms. Journal of Statistical Physics, 1987, 48, 135-149.	0.5	5
232	The gap parameter near a surface in small HfO superconductors. Physica B: Condensed Matter, 1990, 165-166, 1081-1082.	1.3	5
233	Specific heat of the quantum Bragg glass. Europhysics Letters, 2004, 66, 538-544.	0.7	5
234	Hall effect in quasi one-dimensional organic conductors. Journal of Low Temperature Physics, 2006, 142, 315-318.	0.6	5

#	ARTICLE	IF	CITATIONS
235	Phase Transitions for a Collective Coordinate Coupled to Luttinger Liquids. Physical Review Letters, 2013, 111, 115302.	2.9	5
236	Theory for 1D Quantum Materials Tested with Cold Atoms and Superconductors. Physics Magazine, 2017, 10, .	0.1	5
237	Impurity coupled to a lattice with disorder. Physical Review A, 2018, 98, .	1.0	5
238	Influence of non-magnetic impurities on hole-doped two-leg CuO Hubbard ladders. New Journal of Physics, 2009, 11, 055059.	1.2	4
239	Deconstructing the electron. Physics Magazine, 2009, 2, .	0.1	4
240	Spin rotational symmetry breaking by orbital current patterns in two-leg ladders. Physical Review B, 2010, 81, .	1.1	4
241	Exact asymptotic behavior of correlation functions for disordered spin-1/2 XXZ chains. Nuclear Physics B, 2012, 864, 317-327.	0.9	4
242	Berezinskii-Kosterlitz-Thouless Transition within the Sine-Gordon Approach: The Role of the Vortex-Core Energy. , 2013, , 161-199.		4
243	Two-leg fermionic Hubbard ladder system in the presence of state-dependent hopping. Physical Review A, 2015, 91, .	1.0	4
244	Excitations and impurity dynamics in a fermionic Mott insulator with nearest-neighbor interactions. Physical Review B, 2016, 93, .	1.1	4
245	Transconducting Transition for a Dynamic Boundary Coupled to Several Luttinger Liquids. Physical Review Letters, 2018, 121, 166803.	2.9	4
246	Electronic transport in submicrometric channels at the $\text{LaAlO}_3/\text{SiO}_2$ interface. Physical Review B, 2021, 103, .		
247	Electronic transport in submicrometric channels at the $\text{BaCo}_2\text{V}_8\text{O}_{28}$ interface under large transverse magnetic field. Physical Review Research, 2021, 3, .	1.3	4
248	Quantum fluctuations in CsNiF_3 : A case study of an $S=1$ planar spin chain. Physical Review Letters, 1991, 67, 2207-2210.	2.9	3
249	INTERACTIONS IN QUASICRYSTALS. International Journal of Modern Physics B, 2001, 15, 1329-1337.	1.0	3
250	Unconventional superfluidity in quasi-one-dimensional systems. Physical Review A, 2014, 89, .	1.0	3
251	From Luttinger to Fermi Liquids in Organic Conductors. Springer Series in Materials Science, 2008, , 719-743.	0.4	3
252	Flux Quantization and Pairing in One-Dimensional Copper-Oxide Models. Physical Review Letters, 1994, 72, 3292-3292.	2.9	2

#	ARTICLE	IF	CITATIONS
253	Anderson localization in Hubbard ladders. <i>Physica B: Condensed Matter</i> , 1999, 259-261, 1058-1059.	1.3	2
254	Disorder effects in fluctuating one-dimensional interacting systems. <i>Physical Review B</i> , 2006, 73, .	1.1	2
255	Coulomb disorder in periodic systems: Effect of unscreened charged impurities. <i>Physical Review B</i> , 2006, 73, .	1.1	2
256	Finite-temperature dynamical properties of $SU(2)$ spin chains in the Kosterlitz-Thouless regime. <i>Physical Review A</i> , 2012, 86, .	1.0	2
257	Current drag in two leg quantum ladders. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 77, 164-168.	1.3	2
258	A firmer grip on the Hubbard model. <i>Nature</i> , 2017, 545, 414-415.	13.7	2
259	Dynamics of Disordered Elastic Systems. , 2006, , 91-108.		2
260	Disordered Wigner Crystals. , 2002, , 165-183.		2
261	Bose-Einstein Condensation in Quantum Magnets. , 0, , 549-568.		1
262	Pinned vortex lattices: a variational study. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 2683-2684.	0.6	1
263	Role of Interchain Hopping in Two Disordered Chains of Spinless Fermions. <i>Journal of the Physical Society of Japan</i> , 2000, 69, 3642-3649.	0.7	1
264	NMR properties of a one-dimensional Cu-O model. <i>Physical Review B</i> , 2000, 62, 12489-12504.	1.1	1
265	Specific heat of quantum elastic systems pinned by disorder. <i>European Physical Journal B</i> , 2005, 44, 521-534.	0.6	1
266	Zero field Wigner glass. <i>European Physical Journal Special Topics</i> , 2005, 131, 163-166.	0.2	1
267	Tunnelling in organic superconductors. <i>Journal of Low Temperature Physics</i> , 2006, 142, 221-226.	0.6	1
268	DECONFINEMENT AND COLD ATOMS IN OPTICAL LATTICES. <i>International Journal of Modern Physics B</i> , 2006, 20, 5169-5178.	1.0	1
269	Noisy quantum phase transitions: an intuitive approach. <i>Physica Scripta</i> , 2012, T151, 014026.	1.2	1
270	Second-order response theory of radio-frequency spectroscopy for cold atoms. <i>Physical Review A</i> , 2015, 92, .	1.0	1

#	ARTICLE	IF	CITATIONS
271	Time-dependent local potential in a Tomonaga-Luttinger liquid. <i>Physical Review A</i> , 2017, 96, .	1.0	1
272	Investigating Skyrmions Using Lorentz Transmission Electron Microscopy. <i>Microscopy and Microanalysis</i> , 2018, 24, 932-933.	0.2	1
273	Low-dimensional correlations under thermal fluctuations. <i>Physical Review B</i> , 2019, 99, .	1.1	1
274	Magnetic properties of a quantum spin ladder in proximity to the isotropic limit. <i>Physical Review B</i> , 2021, 103, .	1.1	1
275	Driven elastic system in a random environment. <i>European Physical Journal Special Topics</i> , 1999, 09, Pr10-69-Pr10-71.	0.2	1
276	Disordered Quantum Solids. , 2001, , 205-255.		1
277	Universality and Bose-Einstein Condensation: Perspectives on Recent Work. , 0, , 3-21.		0
278	Strongly correlated fermions in 2 D : Variational Monte Carlo study of magnetism and supraconductivity. <i>Physica B: Condensed Matter</i> , 1990, 165-166, 411-412.	1.3	0
279	Theory of the marginal-Fermi-liquid spectrum and pairing in a copper-oxide model. <i>Physica C: Superconductivity and Its Applications</i> , 1994, 235-240, 2335-2336.	0.6	0
280	Disordered Quantum Solids. , 2004, , 187-233.		0
281	Theoretical Framework for Quasi-One Dimensional Systems. <i>ChemInform</i> , 2005, 36, no.	0.1	0
282	Point-contact tunneling in low-dimensional, unconventional superconducting junctions. <i>Physica B: Condensed Matter</i> , 2005, 359-361, 609-610.	1.3	0
283	Coulombian disorder in Charge Density Waves. <i>European Physical Journal Special Topics</i> , 2005, 131, 179-182.	0.2	0
284	Non-“equilibrium relaxation of an elastic string in random media. <i>European Physical Journal Special Topics</i> , 2005, 131, 189-190.	0.2	0
285	Tunnelling in Organic Superconductors. <i>Progress of Theoretical Physics Supplement</i> , 2005, 160, 28-38.	0.2	0
286	DECONFINEMENT AND COLD ATOMS IN OPTICAL LATTICES. , 2006, , .		0
287	Tunnelling in Organic Superconductors. <i>Journal of Low Temperature Physics</i> , 2007, 142, 225-230.	0.6	0
288	Hall Effect in Quasi One-Dimensional Organic Conductors. <i>Journal of Low Temperature Physics</i> , 2007, 142, 319-322.	0.6	0

#	ARTICLE	IF	CITATIONS
289	Quantum dynamics of a single, mobile spin impurity. , 2013, , .		0
290	Magnetic Dynamics Studied by Time-Resolved Electron Microscopy. Microscopy and Microanalysis, 2015, 21, 649-650.	0.2	0
291	Finite-temperature crossovers in periodic disordered systems. Physical Review E, 2015, 91, 032101.	0.8	0
292	Reprint of : Current drag in two leg quantum ladders. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 82, 66-70.	1.3	0
293	Impurity and soliton dynamics in a Fermi gas with nearest-neighbor interactions. Physical Review A, 2017, 95, .	1.0	0
294	Effects of long range electronic interactions on a one-dimensional electron system. European Physical Journal Special Topics, 2000, 10, Pr3-119-Pr3-124.	0.2	0
295	Thermodynamics of disordered elastic systems in the Bragg glass phase. European Physical Journal Special Topics, 2002, 12, 311-312.	0.2	0
296	Disordered elastic systems and electronic crystals. European Physical Journal Special Topics, 2002, 12, 277-282.	0.2	0
297	Transport in Luttinger Liquids. NATO Science Series Series II, Mathematics, Physics and Chemistry, 2004, , 275-284.	0.1	0
298	Pinned Wigner crystals. European Physical Journal Special Topics, 1999, 09, Pr10-33-Pr10-35.	0.2	0
299	Microscopic interplay of temperature and disorder of a one-dimensional elastic interface. Physical Review E, 2022, 105, 044138.	0.8	0