

Eugene Demler

List of Publications by Year in descending order

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257
papers

25,016
citations

6091

82
h-index

7703

152
g-index

266
all docs

266
docs citations

266
times ranked

15417
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust optical delay lines with topological protection. <i>Nature Physics</i> , 2011, 7, 907-912.	11.8	1,166
2	A single-photon transistor using nanoscale surface plasmons. <i>Nature Physics</i> , 2007, 3, 807-812.	11.8	1,091
3	Topological characterization of periodically driven quantum systems. <i>Physical Review B</i> , 2010, 82, .	3.3	972
4	Transport properties of nonequilibrium systems under the application of light: Photoinduced quantum Hall insulators without Landau levels. <i>Physical Review B</i> , 2011, 84, .	3.3	846
5	Direct measurement of the Zak phase in topological Bloch bands. <i>Nature Physics</i> , 2013, 9, 795-800.	11.8	794
6	Observation of discrete time-crystalline order in a disordered dipolar many-body system. <i>Nature</i> , 2017, 543, 221-225.	36.2	741
7	Majorana Fermions in Equilibrium and in Driven Cold-Atom Quantum Wires. <i>Physical Review Letters</i> , 2011, 106, 220402.	8.0	629
8	A cold-atom Fermi-Hubbard antiferromagnet. <i>Nature</i> , 2017, 545, 462-466.	36.2	551
9	Observation of topologically protected bound states in photonic quantum walks. <i>Nature Communications</i> , 2012, 3, 882.	13.2	509
10	Probing many-body states of ultracold atoms via noise correlations. <i>Physical Review A</i> , 2004, 70, .	2.5	479
11	Fractional Quantum Hall States of Atoms in Optical Lattices. <i>Physical Review Letters</i> , 2005, 94, 086803.	8.0	420
12	Exploring topological phases with quantum walks. <i>Physical Review A</i> , 2010, 82, .	2.5	409
13	Fermi polaron-polaritons in charge-tunable atomically thin semiconductors. <i>Nature Physics</i> , 2017, 13, 255-261.	11.8	407
14	Fermionic transport and out-of-equilibrium dynamics in a homogeneous Hubbard model with ultracold atoms. <i>Nature Physics</i> , 2012, 8, 213-218.	11.8	350
15	Anomalous Diffusion and Griffiths Effects Near the Many-Body Localization Transition. <i>Physical Review Letters</i> , 2015, 114, 160401.	8.0	341
16	Quantum Simulators: Architectures and Opportunities. <i>PRX Quantum</i> , 2021, 2, .	9.3	286
17	The "Higgs" amplitude mode at the two-dimensional superfluid/Mott insulator transition. <i>Nature</i> , 2012, 487, 454-458.	36.2	285
18	Phase diagram of two-component bosons on an optical lattice. <i>New Journal of Physics</i> , 2003, 5, 113-113.	2.9	281

#	ARTICLE	IF	CITATIONS
19	Observing Majorana bound States in p-Wave Superconductors Using Noise Measurements in Tunneling Experiments. Physical Review Letters, 2007, 98, 237002.	8.0	273
20	Tunable Superfluidity and Quantum Magnetism with Ultracold Polar Molecules. Physical Review Letters, 2011, 107, 115301.	8.0	270
21	SO(5) theory of antiferromagnetism and superconductivity. Reviews of Modern Physics, 2004, 76, 909-974.	46.3	252
22	Floquet approach to \hat{a}_n^2 lattice gauge theories with ultracold atoms in optical lattices. Nature Physics, 2019, 15, 1168-1173.	11.8	240
23	Spin-Ordering Quantum Transitions of Superconductors in a Magnetic Field. Physical Review Letters, 2001, 87, 067202.	8.0	232
24	Observation of Elastic Doublon Decay in the Fermi-Hubbard Model. Physical Review Letters, 2010, 104, 080401.	8.0	222
25	Spin-exchange interactions of spin-one bosons in optical lattices: Singlet, nematic, and dimerized phases. Physical Review A, 2003, 68, .	2.5	218
26	Spinor Bosonic Atoms in Optical Lattices: Symmetry Breaking and Fractionalization. Physical Review Letters, 2002, 88, 163001.	8.0	202
27	Hilbert-Glass Transition: New Universality of Temperature-Tuned Many-Body Dynamical Quantum Criticality. Physical Review X, 2014, 4, .	9.1	201
28	Theory of the Resonant Neutron Scattering of High-Tc Superconductors. Physical Review Letters, 1995, 75, 4126-4129.	8.0	191
29	Far-from-Equilibrium Spin Transport in Heisenberg Quantum Magnets. Physical Review Letters, 2014, 113, 147205.	8.0	182
30	Measuring Entanglement Entropy of a Generic Many-Body System with a Quantum Switch. Physical Review Letters, 2012, 109, 020504.	8.0	180
31	Relaxation of Antiferromagnetic Order in Spin- $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ Chains Following a Quantum Quench. Physical Review Letters, 2009, 102, 130603.	8.0	174
32	Quantum Magnetism with Multicomponent Dipolar Molecules in an Optical Lattice. Physical Review Letters, 2006, 96, 190401.	8.0	172
33	Low-frequency conductivity in many-body localized systems. Physical Review B, 2015, 92, .	3.3	167
34	Spin transport in a tunable Heisenberg model realized with ultracold atoms. Nature, 2020, 588, 403-407.	36.2	166
35	Rare ϵ -region effects and dynamics near the many ϵ -body localization transition. Annalen Der Physik, 2017, 529, 1600326.	2.5	160
36	Time-Dependent Impurity in Ultracold Fermions: Orthogonality Catastrophe and Beyond. Physical Review X, 2012, 2, .	9.1	151

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37	Quantum magnetism with polar alkali-metal dimers. <i>Physical Review A</i> , 2011, 84, .	2.5	149
38	Interference between independent fluctuating condensates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6125-6129.	7.6	148
39	Universal many-body response of heavy impurities coupled to a Fermi sea: a review of recent progress. <i>Reports on Progress in Physics</i> , 2018, 81, 024401.	20.3	143
40	Quantum Dynamics of Ultracold Bose Polarons. <i>Physical Review Letters</i> , 2016, 117, 113002.	8.0	142
41	Competing orders in a magnetic field: Spin and charge order in the cuprate superconductors. <i>Physical Review B</i> , 2002, 66, .	3.3	141
42	Luttinger Liquid of Polarons in One-Dimensional Boson-Fermion Mixtures. <i>Physical Review Letters</i> , 2004, 93, 120404.	8.0	141
43	Dissipative Preparation of Spin Squeezed Atomic Ensembles in a Steady State. <i>Physical Review Letters</i> , 2013, 110, 120402.	8.0	141
44	Quantum critical states and phase transitions in the presence of non-equilibrium noise. <i>Nature Physics</i> , 2010, 6, 806-810.	11.8	136
45	Classifying Novel Phases of Spinor Atoms. <i>Physical Review Letters</i> , 2006, 97, 180412.	8.0	131
46	Dynamical Cooper pairing in nonequilibrium electron-phonon systems. <i>Physical Review B</i> , 2016, 94, .	3.3	130
47	Quantitative test of a microscopic mechanism of high-temperature superconductivity. <i>Nature</i> , 1998, 396, 733-735.	36.2	127
48	Signatures of Wigner crystal of electrons in a monolayer semiconductor. <i>Nature</i> , 2021, 595, 53-57.	36.2	126
49	Fermi polarons in two dimensions. <i>Physical Review A</i> , 2012, 85, .	2.5	125
50	Quantum Fluids of Self-Assembled Chains of Polar Molecules. <i>Physical Review Letters</i> , 2006, 97, 180413.	8.0	123
51	Griffiths effects and slow dynamics in nearly many-body localized systems. <i>Physical Review B</i> , 2016, 93, .	3.3	120
52	Prethermal Floquet Steady States and Instabilities in the Periodically Driven, Weakly Interacting Bose-Hubbard Model. <i>Physical Review Letters</i> , 2015, 115, 205301.	8.0	118
53	Imaging magnetic polarons in the doped Fermi-Hubbard model. <i>Nature</i> , 2019, 572, 358-362.	36.2	118
54	Bilayer Wigner crystals in a transition metal dichalcogenide heterostructure. <i>Nature</i> , 2021, 595, 48-52.	36.2	118

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55	Competition between Pairing and Ferromagnetic Instabilities in Ultracold Fermi Gases near Feshbach Resonances. <i>Physical Review Letters</i> , 2011, 106, 050402.	8.0	117
56	Full quantum distribution of contrast in interference experiments between interacting one-dimensional Bose liquids. <i>Nature Physics</i> , 2006, 2, 705-709.	11.8	116
57	The dynamics and prethermalization of one-dimensional quantum systems probed through the full distributions of quantum noise. <i>New Journal of Physics</i> , 2011, 13, 073018.	2.9	114
58	Probing Real-Space and Time-Resolved Correlation Functions with Many-Body Ramsey Interferometry. <i>Physical Review Letters</i> , 2013, 111, 147205.	8.0	113
59	String patterns in the doped Hubbard model. <i>Science</i> , 2019, 365, 251-256.	20.9	112
60	Theory of parametrically amplified electron-phonon superconductivity. <i>Physical Review B</i> , 2017, 96, .	3.3	111
61	Quantum quenches in the anisotropic spin- $\frac{1}{2}$ Heisenberg chain: different approaches to many-body dynamics far from equilibrium. <i>New Journal of Physics</i> , 2010, 12, 055017.	2.9	110
62	Quantum Spin Dynamics of Mode-Squeezed Luttinger Liquids in Two-Component Atomic Gases. <i>Physical Review Letters</i> , 2008, 100, 140401.	8.0	109
63	Dicke time crystals in driven-dissipative quantum many-body systems. <i>New Journal of Physics</i> , 2019, 21, 073028.	2.9	106
64	Bose polarons in ultracold atoms in one dimension: beyond the Fröhlich paradigm. <i>New Journal of Physics</i> , 2017, 19, 103035.	2.9	105
65	Classifying snapshots of the doped Hubbard model with machine learning. <i>Nature Physics</i> , 2019, 15, 921-924.	11.8	101
66	Linear response theory for a pair of coupled one-dimensional condensates of interacting atoms. <i>Physical Review B</i> , 2007, 75, .	3.3	100
67	Interferometric Approach to Measuring Band Topology in 2D Optical Lattices. <i>Physical Review Letters</i> , 2013, 110, 165304.	8.0	99
68	Anyonic interferometry and protected memories in atomic spin lattices. <i>Nature Physics</i> , 2008, 4, 482-488.	11.8	98
69	Lifetime of double occupancies in the Fermi-Hubbard model. <i>Physical Review B</i> , 2010, 82, .	3.3	98
70	Superconductivity and other collective phenomena in a hybrid Bose-Fermi mixture formed by a polariton condensate and an electron system in two dimensions. <i>Physical Review B</i> , 2016, 93, .	3.3	97
71	Translational symmetry breaking in the superconducting state of the cuprates: Analysis of the quasiparticle density of states. <i>Physical Review B</i> , 2003, 67, .	3.3	95
72	Depolarization Dynamics in a Strongly Interacting Solid-State Spin Ensemble. <i>Physical Review Letters</i> , 2017, 118, 093601.	8.0	95

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73	Disordered Bose-Einstein Condensates in Quasi-One-Dimensional Magnetic Microtraps. <i>Physical Review Letters</i> , 2004, 92, 076802.	8.0	93
74	Radio-frequency spectroscopy of polarons in ultracold Bose gases. <i>Physical Review A</i> , 2014, 89, .	2.5	90
75	Quantum phase transitions in the Bose-Fermi Kondo model. <i>Physical Review B</i> , 2002, 66, .	3.3	88
76	Variational study of fermionic and bosonic systems with non-Gaussian states: Theory and applications. <i>Annals of Physics</i> , 2018, 390, 245-302.	2.9	87
77	Quantum Electrodynamic Control of Matter: Cavity-Enhanced Ferroelectric Phase Transition. <i>Physical Review X</i> , 2020, 10, .	9.1	86
78	Coupling ultracold matter to dynamical gauge fields in optical lattices: From flux attachment to \hat{a}_i , $\langle \text{sub} \rangle 2 \langle \text{sub} \rangle$ lattice gauge theories. <i>Science Advances</i> , 2019, 5, eaav7444.	10.9	82
79	Exactly solvable case of a one-dimensional Bose-Fermi mixture. <i>Physical Review A</i> , 2006, 73, .	2.5	81
80	Relaxation to a Phase-Locked Equilibrium State in a One-Dimensional Bosonic Josephson Junction. <i>Physical Review Letters</i> , 2018, 120, 173601.	8.0	80
81	Dynamical stability of a many-body Kapitza pendulum. <i>Annals of Physics</i> , 2015, 360, 694-710.	2.9	79
82	Electron-phonon interaction in ultrasmall-radius carbon nanotubes. <i>Physical Review B</i> , 2005, 71, .	3.3	77
83	Far-from-Equilibrium Field Theory of Many-Body Quantum Spin Systems: Prethermalization and Relaxation of Spin Spiral States in Three Dimensions. <i>Physical Review X</i> , 2015, 5, .	9.1	77
84	Spectroscopy of Collective Excitations in Interacting Low-Dimensional Many-Body Systems Using Quench Dynamics. <i>Physical Review Letters</i> , 2007, 99, 200404.	8.0	76
85	Scaling approach to quantum non-equilibrium dynamics of many-body systems. <i>New Journal of Physics</i> , 2010, 12, 113005.	2.9	74
86	Nematic Order by Disorder in Spin-2 Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2007, 98, 190404.	8.0	72
87	Decoherence Dynamics in Low-Dimensional Cold Atom Interferometers. <i>Physical Review Letters</i> , 2007, 98, 200404.	8.0	71
88	Quantum flutter of supersonic particles in one-dimensional quantum liquids. <i>Nature Physics</i> , 2012, 8, 881-886.	11.8	71
89	Superfluidity and Dimerization in a Multilayered System of Fermionic Polar Molecules. <i>Physical Review Letters</i> , 2010, 105, 220406.	8.0	70
90	Realizing a Kondo-Correlated State with Ultracold Atoms. <i>Physical Review Letters</i> , 2013, 111, 215304.	8.0	70

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91	Bound states at impurities as a probe of topological superconductivity in nanowires. Physical Review B, 2013, 88, .	3.3	69
92	Dynamics and universality in noise-driven dissipative systems. Physical Review B, 2012, 85, .	3.3	68
93	Exploring dynamical phase transitions and prethermalization with quantum noise of excitations. Physical Review B, 2015, 91, .	3.3	67
94	Geometry of variational methods: dynamics of closed quantum systems. SciPost Physics, 2020, 9, .	4.9	66
95	Quantum Quasicrystals of Spin-Orbit-Coupled Dipolar Bosons. Physical Review Letters, 2013, 111, 185304.	8.0	65
96	Applications of exact solution for strongly interacting one-dimensional Bose-Fermi mixture: Low-temperature correlation functions, density profiles, and collective modes. Annals of Physics, 2006, 321, 2390-2437.	2.9	64
97	Exact methods in the analysis of the non-equilibrium dynamics of integrable models: application to the study of correlation functions for non-equilibrium 1D Bose gas. Journal of Statistical Mechanics: Theory and Experiment, 2010, 2010, P05012.	2.3	63
98	Universal Rephasing Dynamics after a Quantum Quench via Sudden Coupling of Two Initially Independent Condensates. Physical Review Letters, 2013, 110, 090404.	8.0	62
99	Bilayer paired quantum Hall states and Coulomb drag. Physical Review B, 2001, 63, .	3.3	59
100	Proposal for Coherent Coupling of Majorana Zero Modes and Superconducting Qubits Using the γ Josephson Effect. Physical Review Letters, 2013, 111, 107007.	8.0	59
101	Ramsey Interference in One-Dimensional Systems: The Full Distribution Function of Fringe Contrast as a Probe of Many-Body Dynamics. Physical Review Letters, 2010, 104, 255302.	8.0	58
102	Quantum many-body dynamics of coupled double-well superlattices. Physical Review A, 2008, 78, .	2.5	57
103	Josephson effects between multigap and single-gap superconductors. Physical Review B, 2002, 66, .	3.3	56
104	π excitation of the θ model. Physical Review B, 1998, 58, 5719-5730.	3.3	52
105	Cavity Quantum Electrodynamics at Arbitrary Light-Matter Coupling Strengths. Physical Review Letters, 2021, 126, 153603.	8.0	52
106	Quantum noise analysis of spin systems realized with cold atoms. New Journal of Physics, 2007, 9, 7-7.	2.9	51
107	Adiabatic preparation of many-body states in optical lattices. Physical Review A, 2010, 81, .	2.5	51
108	Quantum Flutter: Signatures and Robustness. Physical Review Letters, 2014, 112, 015302.	8.0	51

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109	Microscopic Electron Models with Exact SO(5) Symmetry. Physical Review Letters, 1998, 80, 3586-3589.	8.0	50
110	Superconductor-to-normal transitions in dissipative chains of mesoscopic grains and nanowires. Physical Review B, 2007, 75, .	3.3	50
111	Classifying vortices in $S=3$ Bose-Einstein condensates. Physical Review A, 2007, 76, .	8.0	49
112	Dynamics of One-Dimensional Bose Liquids: Andreev-Like Reflection at Y Junctions and the Absence of the Aharonov-Bohm Effect. Physical Review Letters, 2008, 100, 140402.	8.0	49
113	Exploration of doped quantum magnets with ultracold atoms. Annals of Physics, 2021, 435, 168651.	2.9	48
114	Spin Bose-Glass Phase in Bilayer Quantum Hall Systems at $\nu=2$. Physical Review Letters, 1999, 82, 3895-3898.	8.0	47
115	Competing orders in thermally fluctuating superconductors in two dimensions. Physical Review B, 2004, 69, .	3.3	47
116	RESISTANCE IN SUPERCONDUCTORS. International Journal of Modern Physics B, 2010, 24, 4039-4080.	1.9	47
117	Polaronic mass renormalization of impurities in Bose-Einstein condensates: Correlated Gaussian-wave-function approach. Physical Review A, 2016, 93, .	2.5	47
118	Topological doping and the stability of stripe phases. Physical Review B, 1999, 60, 7541-7557.	3.3	45
119	Magnetization Plateaus for Spin-One Bosons in Optical Lattices: Stern-Gerlach Experiments with Strongly Correlated Atoms. Physical Review Letters, 2004, 93, 120405.	8.0	45
120	Quantum transport of strongly interacting photons in a one-dimensional nonlinear waveguide. Physical Review A, 2012, 85, .	2.5	43
121	Finite-Size Studies on the SO(5) Symmetry of the Hubbard Model. Physical Review Letters, 1997, 79, 4902-4905.	8.0	42
122	Bilayer Coherent and Quantum Hall Phases: Duality and Quantum Disorder. Physical Review Letters, 2001, 86, 1853-1856.	8.0	42
123	Microscopic spinon-charge theory of magnetic polarons in the J - t model. Physical Review B, 2019, 99, .	8.0	40
124	Polaronic model of two-level systems in amorphous solids. Physical Review B, 2013, 87, .	3.3	41
125	Exploring the anisotropic Kondo model in and out of equilibrium with alkaline-earth atoms. Physical Review B, 2018, 97, .	3.3	41
126	Single-Band Model of Resonant Inelastic X-Ray Scattering by Quasiparticles in High- T_c Superconductors. Physical Review Letters, 2014, 112, 247002.	8.0	40

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127	Magnetic noise spectroscopy as a probe of local electronic correlations in two-dimensional systems. Physical Review B, 2017, 95, .	3.3	39
128	Diagnosing phases of magnetic insulators via noise magnetometry with spin qubits. Physical Review B, 2019, 99, .	3.3	39
129	Vortex-Peierls States in Optical Lattices. Physical Review Letters, 2006, 96, 180406.	8.0	38
130	Dicke phase transition without total spin conservation. Physical Review A, 2016, 94, .	2.5	38
131	Coupling a Mobile Hole to an Antiferromagnetic Spin Background: Transient Dynamics of a Magnetic Polaron. Physical Review X, 2021, 11, .	9.1	38
132	Solving Quantum Impurity Problems in and out of Equilibrium with the Variational Approach. Physical Review Letters, 2018, 121, 026805.	8.0	37
133	Coexistence of Gapless Excitations and Commensurate Charge-Density Wave in the 2H Transition Metal Dichalcogenides. Physical Review Letters, 2006, 96, 026406.	8.0	36
134	Photonic Phase Gate via an Exchange of Fermionic Spin Waves in a Spin Chain. Physical Review Letters, 2010, 105, 060502.	8.0	36
135	Full counting statistics of time-of-flight images. Physical Review A, 2017, 95, .	2.5	36
136	Non-Abelian Holonomy of BCS and SDW Quasiparticles. Annals of Physics, 1999, 271, 83-119.	2.9	34
137	Modulation Spectroscopy and Dynamics of Double Occupancies in a Fermionic Mott Insulator. Physical Review Letters, 2009, 103, 035303.	8.0	34
138	Unstable Avoided Crossing in Coupled Spinor Condensates. Physical Review Letters, 2014, 113, 065303.	8.0	34
139	Strong-coupling Bose polarons out of equilibrium: Dynamical renormalization-group approach. Physical Review A, 2018, 97, .	2.5	34
140	Parton theory of angle-resolved photoemission spectroscopy spectra in antiferromagnetic Mott insulators. Physical Review B, 2020, 102, .	3.3	34
141	Non-Gaussian correlations imprinted by local dephasing in fermionic wires. Physical Review B, 2020, 102, .	3.3	34
142	Breakdown of the local density approximation in interacting systems of cold fermions in strongly anisotropic traps. Physical Review A, 2006, 74, .	2.5	33
143	Tunable spin-orbit coupling for ultracold atoms in two-dimensional optical lattices. Physical Review A, 2017, 95, .	2.5	33
144	Transverse Spin Dynamics in the Anisotropic Heisenberg Model Realized with Ultracold Atoms. Physical Review X, 2021, 11, .	9.1	33

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145	Density ordering instabilities of quasi-two-dimensional fermionic polar molecules in single-layer and multilayer configurations: Exact treatment of exchange interactions. <i>Physical Review B</i> , 2011, 84, .	3.3	32
146	Clustered Wigner-crystal phases of cold polar molecules in arrays of one-dimensional tubes. <i>Physical Review B</i> , 2012, 86, .	3.3	32
147	A magnon scattering platform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.6	32
148	Properties and detection of spin nematic order in strongly correlated electron systems. <i>New Journal of Physics</i> , 2005, 7, 59-59.	2.9	31
149	Cooling through optimal control of quantum evolution. <i>Physical Review A</i> , 2013, 87, .	2.5	31
150	Zero-temperature phases of the two-dimensional Hubbard-Holstein model: A non-Gaussian exact diagonalization study. <i>Physical Review Research</i> , 2020, 2, .	3.6	31
151	Transmon-based simulator of nonlocal electron-phonon coupling: A platform for observing sharp small-polaron transitions. <i>Physical Review B</i> , 2014, 89, .	3.3	30
152	Friedel oscillations as a probe of fermionic quasiparticles. <i>Physical Review B</i> , 2016, 93, .	3.3	30
153	Spin-resolved spectra of Shiba multiplets from Mn impurities in MgB_2 . <i>Physical Review B</i> , 2008, 77, .	3.3	29
154	Dissipation and quantum phase transitions of a pair of Josephson junctions. <i>Physical Review B</i> , 2003, 68, .	3.3	28
155	Probing Spatial Spin Correlations of Ultracold Gases by Quantum Noise Spectroscopy. <i>Physical Review Letters</i> , 2009, 102, 030401.	8.0	28
156	Bound states of a localized magnetic impurity in a superfluid of paired ultracold fermions. <i>Physical Review A</i> , 2011, 83, .	2.5	28
157	Regimes of heating and dynamical response in driven many-body localized systems. <i>Physical Review B</i> , 2016, 94, .	3.3	28
158	Quantum correlations at infinite temperature: The dynamical Nagaoka effect. <i>Physical Review B</i> , 2017, 96, .	3.3	28
159	Parametric resonance of Josephson plasma waves: A theory for optically amplified interlayer superconductivity in $YBa_2Cu_3O_{7-x}$. <i>Physical Review B</i> , 2020, 102, .	3.3	28
160	Self-similar dynamics of order parameter fluctuations in pump-probe experiments. <i>Physical Review B</i> , 2020, 101, .	3.3	28
161	Fractionalization patterns in strongly correlated electron systems: Spin-charge separation and beyond. <i>Physical Review B</i> , 2002, 65, .	3.3	27
162	Semiclassical solitons in strongly correlated systems of ultracold bosonic atoms in optical lattices. <i>Annals of Physics</i> , 2011, 326, 1775-1805.	2.9	27

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163	Many-body interferometry of magnetic polaron dynamics. Physical Review B, 2018, 97, .	3.3	27
164	Correlator convolutional neural networks as an interpretable architecture for image-like quantum matter data. Nature Communications, 2021, 12, 3905.	13.2	27
165	Cavity magnon-polaritons in cuprate parent compounds. Physical Review Research, 2022, 4, .	3.6	27
166	SO(4) Theory of Antiferromagnetism and Superconductivity in Bechgaard Salts. Physical Review Letters, 2004, 93, 246402.	8.0	26
167	Quantum Rydberg Central Spin Model. Physical Review Letters, 2019, 123, 183001.	8.0	26
168	Variational principle for quantum impurity systems in and out of equilibrium: Application to Kondo problems. Physical Review B, 2018, 98, .	3.3	24
169	Gaussian time-dependent variational principle for the Bose-Hubbard model. Physical Review B, 2019, 100, .	3.3	24
170	Strong pairing in mixed-dimensional bilayer antiferromagnetic Mott insulators. Nature Physics, 2022, 18, 651-656.	11.8	24
171	Spontaneous symmetry breaking and exotic quantum orders in integer quantum Hall systems under a tilted magnetic field. Physical Review B, 2003, 68, .	3.3	23
172	Phase-Sensitive Measurements of Order Parameters for Ultracold Atoms through Two-Particle Interferometry. Physical Review Letters, 2011, 106, 115302.	8.0	23
173	Resonant soft X-ray scattering, stripe order, and the electron spectral function in cuprates. Physica C: Superconductivity and Its Applications, 2012, 481, 15-22.	1.2	23
174	$\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle f_{\pm} \langle \text{mml:mi} \rangle / \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ noise and generalized diffusion in random Heisenberg spin systems. Physical Review B, 2015, 92, .	3.3	23
175	Transport of Neutral Optical Excitations Using Electric Fields. Physical Review X, 2019, 9, .	9.1	23
176	Higgs-Mediated Optical Amplification in a Nonequilibrium Superconductor. Physical Review X, 2021, 11, .	9.1	23
177	Collective excitations of quasi-two-dimensional trapped dipolar fermions: Transition from collisionless to hydrodynamic regime. Physical Review A, 2012, 86, .	2.5	22
178	Rydberg impurity in a Fermi gas: Quantum statistics and rotational blockade. Physical Review Research, 2020, 2, .	3.6	22
179	Mapping of Coulomb gases and sine-Gordon models to statistics of random surfaces. Physical Review A, 2008, 77, .	2.5	21
180	Dynamical Quantum Cherenkov Transition of Fast Impurities in Quantum Liquids. Physical Review Letters, 2021, 127, 185302.	8.0	21

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181	Superconducting and charge density wave instabilities in ultrasmall-radius carbon nanotubes. Solid State Communications, 2005, 135, 335-339.	1.9	20
182	Transport in Two-Dimensional Disordered Semimetals. Physical Review Letters, 2014, 113, 186801.	8.0	20
183	Non-Abelian Symmetries and Disorder: A Broad Nonergodic Regime and Anomalous Thermalization. Physical Review X, 2020, 10, .	9.1	20
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