

Eugene A Demler

List of Publications by Year in descending order

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263
papers

23,891
citations

6233

80
h-index

8138

148
g-index

264
all docs

264
docs citations

264
times ranked

11880
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust optical delay lines with topological protection. <i>Nature Physics</i> , 2011, 7, 907-912.	6.5	1,110
2	A single-photon transistor using nanoscale surface plasmons. <i>Nature Physics</i> , 2007, 3, 807-812.	6.5	1,074
3	Topological characterization of periodically driven quantum systems. <i>Physical Review B</i> , 2010, 82, .	1.1	932
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, .	1.1	820
5	Direct measurement of the Zak phase in topological Bloch bands. <i>Nature Physics</i> , 2013, 9, 795-800.	6.5	751
6	Observation of discrete time-crystalline order in a disordered dipolar many-body system. <i>Nature</i> , 2017, 543, 221-225.	13.7	689
7	Majorana Fermions in Equilibrium and in Driven Cold-Atom Quantum Wires. <i>Physical Review Letters</i> , 2011, 106, 220402.	2.9	606
8	A cold-atom Fermi-Hubbard antiferromagnet. <i>Nature</i> , 2017, 545, 462-466.	13.7	514
9	Observation of topologically protected bound states in photonic quantum walks. <i>Nature Communications</i> , 2012, 3, 882.	5.8	488
10	Probing many-body states of ultracold atoms via noise correlations. <i>Physical Review A</i> , 2004, 70, .	1.0	476
11	Fractional Quantum Hall States of Atoms in Optical Lattices. <i>Physical Review Letters</i> , 2005, 94, 086803.	2.9	406
12	Exploring topological phases with quantum walks. <i>Physical Review A</i> , 2010, 82, .	1.0	397
13	Fermi polaron-polaritons in charge-tunable atomically thin semiconductors. <i>Nature Physics</i> , 2017, 13, 255-261.	6.5	379
14	Fermionic transport and out-of-equilibrium dynamics in a homogeneous Hubbard model with ultracold atoms. <i>Nature Physics</i> , 2012, 8, 213-218.	6.5	336
15	Anomalous Diffusion and Griffiths Effects Near the Many-Body Localization Transition. <i>Physical Review Letters</i> , 2015, 114, 160401.	2.9	322
16	The Higgs amplitude mode at the two-dimensional superfluid/Mott insulator transition. <i>Nature</i> , 2012, 487, 454-458.	13.7	280
17	Phase diagram of two-component bosons on an optical lattice. <i>New Journal of Physics</i> , 2003, 5, 113-113.	1.2	272
18	Observing Majorana bound States in p-Wave Superconductors Using Noise Measurements in Tunneling Experiments. <i>Physical Review Letters</i> , 2007, 98, 237002.	2.9	262

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19	Tunable Superfluidity and Quantum Magnetism with Ultracold Polar Molecules. Physical Review Letters, 2011, 107, 115301.	2.9	257
20	Ultrafast many-body interferometry of impurities coupled to a Fermi sea. Science, 2016, 354, 96-99.	6.0	252
21	SO(5) theory of antiferromagnetism and superconductivity. Reviews of Modern Physics, 2004, 76, 909-974.	16.4	249
22	Spin-Ordering Quantum Transitions of Superconductors in a Magnetic Field. Physical Review Letters, 2001, 87, 067202.	2.9	231
23	Quantum Simulators: Architectures and Opportunities. PRX Quantum, 2021, 2, .	3.5	229
24	Spin-exchange interactions of spin-one bosons in optical lattices: Singlet, nematic, and dimerized phases. Physical Review A, 2003, 68, .	1.0	216
25	Observation of Elastic Doublon Decay in the Fermi-Hubbard Model. Physical Review Letters, 2010, 104, 080401.	2.9	215
26	Floquet approach to \hat{a}_2 lattice gauge theories with ultracold atoms in optical lattices. Nature Physics, 2019, 15, 1168-1173.	6.5	214
27	Spinor Bosonic Atoms in Optical Lattices: Symmetry Breaking and Fractionalization. Physical Review Letters, 2002, 88, 163001.	2.9	198
28	Hilbert-Glass Transition: New Universality of Temperature-Tuned Many-Body Dynamical Quantum Criticality. Physical Review X, 2014, 4, .	2.8	197
29	Theory of the Resonant Neutron Scattering of High-Tc Superconductors. Physical Review Letters, 1995, 75, 4126-4129.	2.9	191
30	Measuring Entanglement Entropy of a Generic Many-Body System with a Quantum Switch. Physical Review Letters, 2012, 109, 020504.	2.9	171
31	Relaxation of Antiferromagnetic Order in Spin- χ Chains Following a Quantum Quench. Physical Review Letters, 2009, 102, 130603.	2.9	170
32	Quantum Magnetism with Multicomponent Dipolar Molecules in an Optical Lattice. Physical Review Letters, 2006, 96, 190401.	2.9	169
33	Far-from-Equilibrium Spin Transport in Heisenberg Quantum Magnets. Physical Review Letters, 2014, 113, 147205.	2.9	168
34	Low-frequency conductivity in many-body localized systems. Physical Review B, 2015, 92, .	1.1	165
35	Rare-region effects and dynamics near the many-body localization transition. Annalen Der Physik, 2017, 529, 1600326.	0.9	152
36	Time-Dependent Impurity in Ultracold Fermions: Orthogonality Catastrophe and Beyond. Physical Review X, 2012, 2, .	2.8	148

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37	Interference between independent fluctuating condensates. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 6125-6129.	3.3	146
38	Revealing hidden antiferromagnetic correlations in doped Hubbard chains via string correlators. Science, 2017, 357, 484-487.	6.0	144
39	Quantum magnetism with polar alkali-metal dimers. Physical Review A, 2011, 84, .	1.0	142
40	Luttinger Liquid of Polarons in One-Dimensional Boson-Fermion Mixtures. Physical Review Letters, 2004, 93, 120404.	2.9	140
41	Spin transport in a tunable Heisenberg model realized with ultracold atoms. Nature, 2020, 588, 403-407.	13.7	140
42	Competing orders in a magnetic field: Spin and charge order in the cuprate superconductors. Physical Review B, 2002, 66, .	1.1	139
43	Dissipative Preparation of Spin Squeezed Atomic Ensembles in a Steady State. Physical Review Letters, 2013, 110, 120402.	2.9	139
44	Bloch state tomography using Wilson lines. Science, 2016, 352, 1094-1097.	6.0	136
45	Universal many-body response of heavy impurities coupled to a Fermi sea: a review of recent progress. Reports on Progress in Physics, 2018, 81, 024401.	8.1	135
46	Quantum Dynamics of Ultracold Bose Polarons. Physical Review Letters, 2016, 117, 113002.	2.9	134
47	Quantum critical states and phase transitions in the presence of non-equilibrium noise. Nature Physics, 2010, 6, 806-810.	6.5	132
48	Classifying Novel Phases of Spinor Atoms. Physical Review Letters, 2006, 97, 180412.	2.9	130
49	Dynamical Cooper pairing in nonequilibrium electron-phonon systems. Physical Review B, 2016, 94, .	1.1	129
50	Quantitative test of a microscopic mechanism of high-temperature superconductivity. Nature, 1998, 396, 733-735.	13.7	127
51	Quantum Fluids of Self-Assembled Chains of Polar Molecules. Physical Review Letters, 2006, 97, 180413.	2.9	121
52	Fermi polarons in two dimensions. Physical Review A, 2012, 85, .	1.0	121
53	Griffiths effects and slow dynamics in nearly many-body localized systems. Physical Review B, 2016, 93, .	1.1	117
54	Full quantum distribution of contrast in interference experiments between interacting one-dimensional Bose liquids. Nature Physics, 2006, 2, 705-709.	6.5	115

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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.	2.9	115
56	Prethermal Floquet Steady States and Instabilities in the Periodically Driven, Weakly Interacting Bose-Hubbard Model. <i>Physical Review Letters</i> , 2015, 115, 205301.	2.9	112
57	Theory of parametrically amplified electron-phonon superconductivity. <i>Physical Review B</i> , 2017, 96, .	1.1	110
58	Quantum quenches in the anisotropic spin- $S=1/2$ Heisenberg chain: different approaches to many-body dynamics far from equilibrium. <i>New Journal of Physics</i> , 2010, 12, 055017.	1.2	109
59	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.	1.2	109
60	Quantum Spin Dynamics of Mode-Squeezed Luttinger Liquids in Two-Component Atomic Gases. <i>Physical Review Letters</i> , 2008, 100, 140401.	2.9	108
61	Imaging magnetic polarons in the doped Fermi-Hubbard model. <i>Nature</i> , 2019, 572, 358-362.	13.7	106
62	Probing Real-Space and Time-Resolved Correlation Functions with Many-Body Ramsey Interferometry. <i>Physical Review Letters</i> , 2013, 111, 147205.	2.9	104
63	String patterns in the doped Hubbard model. <i>Science</i> , 2019, 365, 251-256.	6.0	102
64	Signatures of Wigner crystal of electrons in a monolayer semiconductor. <i>Nature</i> , 2021, 595, 53-57.	13.7	102
65	Bose polarons in ultracold atoms in one dimension: beyond the Fröhlich paradigm. <i>New Journal of Physics</i> , 2017, 19, 103035.	1.2	101
66	Bilayer Wigner crystals in a transition metal dichalcogenide heterostructure. <i>Nature</i> , 2021, 595, 48-52.	13.7	98
67	Anyonic interferometry and protected memories in atomic spin lattices. <i>Nature Physics</i> , 2008, 4, 482-488.	6.5	97
68	Bloch oscillations in the absence of a lattice. <i>Science</i> , 2017, 356, 945-948.	6.0	97
69	Interferometric Approach to Measuring Band Topology in 2D Optical Lattices. <i>Physical Review Letters</i> , 2013, 110, 165304.	2.9	96
70	Translational symmetry breaking in the superconducting state of the cuprates: Analysis of the quasiparticle density of states. <i>Physical Review B</i> , 2003, 67, .	1.1	95
71	Lifetime of double occupancies in the Fermi-Hubbard model. <i>Physical Review B</i> , 2010, 82, .	1.1	95
72	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, .	1.1	95

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73	Classifying snapshots of the doped Hubbard model with machine learning. <i>Nature Physics</i> , 2019, 15, 921-924.	6.5	94
74	Disordered Bose-Einstein Condensates in Quasi-One-Dimensional Magnetic Microtraps. <i>Physical Review Letters</i> , 2004, 92, 076802.	2.9	93
75	Linear response theory for a pair of coupled one-dimensional condensates of interacting atoms. <i>Physical Review B</i> , 2007, 75, .	1.1	92
76	Dicke time crystals in driven-dissipative quantum many-body systems. <i>New Journal of Physics</i> , 2019, 21, 073028.	1.2	90
77	Quantum phase transitions in the Bose-Fermi Kondo model. <i>Physical Review B</i> , 2002, 66, .	1.1	88
78	Depolarization Dynamics in a Strongly Interacting Solid-State Spin Ensemble. <i>Physical Review Letters</i> , 2017, 118, 093601.	2.9	86
79	Radio-frequency spectroscopy of polarons in ultracold Bose gases. <i>Physical Review A</i> , 2014, 89, .	1.0	85
80	Anomalous Expansion of Attractively Interacting Fermionic Atoms in an Optical Lattice. <i>Science</i> , 2010, 327, 1621-1624.	6.0	83
81	Exactly solvable case of a one-dimensional Bose-Fermi mixture. <i>Physical Review A</i> , 2006, 73, .	1.0	80
82	Variational study of fermionic and bosonic systems with non-Gaussian states: Theory and applications. <i>Annals of Physics</i> , 2018, 390, 245-302.	1.0	79
83	Electron-phonon interaction in ultrasmall-radius carbon nanotubes. <i>Physical Review B</i> , 2005, 71, .	1.1	77
84	Dynamical stability of a many-body Kapitza pendulum. <i>Annals of Physics</i> , 2015, 360, 694-710.	1.0	75
85	Coupling ultracold matter to dynamical gauge fields in optical lattices: From flux attachment to \hat{a}_i lattice gauge theories. <i>Science Advances</i> , 2019, 5, eaav7444.	4.7	75
86	Spectroscopy of Collective Excitations in Interacting Low-Dimensional Many-Body Systems Using Quench Dynamics. <i>Physical Review Letters</i> , 2007, 99, 200404.	2.9	74
87	Scaling approach to quantum non-equilibrium dynamics of many-body systems. <i>New Journal of Physics</i> , 2010, 12, 113005.	1.2	73
88	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, .	2.8	72
89	Quantum Electrodynamical Control of Matter: Cavity-Enhanced Ferroelectric Phase Transition. <i>Physical Review X</i> , 2020, 10, .	2.8	72
90	Nematic Order by Disorder in Spin-2 Bose-Einstein Condensates. <i>Physical Review Letters</i> , 2007, 98, 190404.	2.9	71

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91	Decoherence Dynamics in Low-Dimensional Cold Atom Interferometers. <i>Physical Review Letters</i> , 2007, 98, 200404.	2.9	70
92	Superfluidity and Dimerization in a Multilayered System of Fermionic Polar Molecules. <i>Physical Review Letters</i> , 2010, 105, 220406.	2.9	70
93	Realizing a Kondo-Correlated State with Ultracold Atoms. <i>Physical Review Letters</i> , 2013, 111, 215304.	2.9	69
94	Bound states at impurities as a probe of topological superconductivity in nanowires. <i>Physical Review B</i> , 2013, 88, .	1.1	68
95	Relaxation to a Phase-Locked Equilibrium State in a One-Dimensional Bosonic Josephson Junction. <i>Physical Review Letters</i> , 2018, 120, 173601.	2.9	68
96	Quantum flutter of supersonic particles in one-dimensional quantum liquids. <i>Nature Physics</i> , 2012, 8, 881-886.	6.5	67
97	Dynamics and universality in noise-driven dissipative systems. <i>Physical Review B</i> , 2012, 85, .	1.1	66
98	Exploring dynamical phase transitions and prethermalization with quantum noise of excitations. <i>Physical Review B</i> , 2015, 91, .	1.1	65
99	Applications of exact solution for strongly interacting one-dimensional Bose-Fermi mixture: Low-temperature correlation functions, density profiles, and collective modes. <i>Annals of Physics</i> , 2006, 321, 2390-2437.	1.0	64
100	Quantum Quasicrystals of Spin-Orbit-Coupled Dipolar Bosons. <i>Physical Review Letters</i> , 2013, 111, 185304.	2.9	64
101	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. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010, 2010, P05012.	0.9	60
102	Universal Rephasing Dynamics after a Quantum Quench via Sudden Coupling of Two Initially Independent Condensates. <i>Physical Review Letters</i> , 2013, 110, 090404.	2.9	58
103	Bilayer paired quantum Hall states and Coulomb drag. <i>Physical Review B</i> , 2001, 63, .	1.1	57
104	Proposal for Coherent Coupling of Majorana Zero Modes and Superconducting Qubits Using the 4π Josephson Effect. <i>Physical Review Letters</i> , 2013, 111, 107007.	2.9	57
105	Josephson effects between multigap and single-gap superconductors. <i>Physical Review B</i> , 2002, 66, .	1.1	56
106	Quantum many-body dynamics of coupled double-well superlattices. <i>Physical Review A</i> , 2008, 78, .	1.0	56
107	Ramsey Interference in One-Dimensional Systems: The Full Distribution Function of Fringe Contrast as a Probe of Many-Body Dynamics. <i>Physical Review Letters</i> , 2010, 104, 255302.	2.9	56
108	π excitation of the θ model. <i>Physical Review B</i> , 1998, 58, 5719-5730.	1.1	52

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109	Superconductor-to-normal transitions in dissipative chains of mesoscopic grains and nanowires. Physical Review B, 2007, 75, .	1.1	50
110	Classifying vortices in $S=3$ Bose-Einstein condensates. Physical Review A, 2007, 76, .	1.1	50
111	Geometry of variational methods: dynamics of closed quantum systems. SciPost Physics, 2020, 9, .	1.5	50
112	Microscopic Electron Models with Exact SO(5) Symmetry. Physical Review Letters, 1998, 80, 3586-3589.	2.9	49
113	Adiabatic preparation of many-body states in optical lattices. Physical Review A, 2010, 81, .	1.0	49
114	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.	2.9	48
115	Microscopic evolution of doped Mott insulators from polaronic metal to Fermi liquid. Science, 2021, 374, 82-86.	6.0	48
116	Spin Bose-Glass Phase in Bilayer Quantum Hall Systems at $\nu=2$. Physical Review Letters, 1999, 82, 3895-3898.	2.9	47
117	Competing orders in thermally fluctuating superconductors in two dimensions. Physical Review B, 2004, 69, .	1.1	47
118	Electron-phonon instability in graphene revealed by global and local noise probes. Science, 2019, 364, 154-157.	6.0	47
119	Topological doping and the stability of stripe phases. Physical Review B, 1999, 60, 7541-7557.	1.1	45
120	Magnetization Plateaus for Spin-One Bosons in Optical Lattices: Stern-Gerlach Experiments with Strongly Correlated Atoms. Physical Review Letters, 2004, 93, 120405.	2.9	45
121	Quantum Flutter: Signatures and Robustness. Physical Review Letters, 2014, 112, 015302.	2.9	45
122	Polaronic mass renormalization of impurities in Bose-Einstein condensates: Correlated Gaussian-wave-function approach. Physical Review A, 2016, 93, .	1.0	45
123	Quantum noise analysis of spin systems realized with cold atoms. New Journal of Physics, 2007, 9, 7-7.	1.2	44
124	RESISTANCE IN SUPERCONDUCTORS. International Journal of Modern Physics B, 2010, 24, 4039-4080.	1.0	44
125	Cavity Quantum Electrodynamics at Arbitrary Light-Matter Coupling Strengths. Physical Review Letters, 2021, 126, 153603.	2.9	44
126	Quantum transport of strongly interacting photons in a one-dimensional nonlinear waveguide. Physical Review A, 2012, 85, .	1.0	43

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127	Finite-Size Studies on the SO(5) Symmetry of the Hubbard Model. Physical Review Letters, 1997, 79, 4902-4905.	2.9	42
128	Bilayer Coherent and Quantum Hall Phases: Duality and Quantum Disorder. Physical Review Letters, 2001, 86, 1853-1856.	2.9	42
129	Single-Band Model of Resonant Inelastic X-Ray Scattering by Quasiparticles in High-T _c Superconductors. Physical Review Letters, 2014, 112, 247002.	2.9	39
130	Exploring the anisotropic Kondo model in and out of equilibrium with alkaline-earth atoms. Physical Review B, 2018, 97, .	1.1	39
131	Polaronic model of two-level systems in amorphous solids. Physical Review B, 2013, 87, .	1.1	38
132	Microscopic spinon-charge theory of magnetic polarons in the t-J model. Physical Review B, 2019, 99, .	1.1	38
133	Vortex-Peierls States in Optical Lattices. Physical Review Letters, 2006, 96, 180406.	2.9	37
134	Dicke phase transition without total spin conservation. Physical Review A, 2016, 94, .	1.0	37
135	Magnetic noise spectroscopy as a probe of local electronic correlations in two-dimensional systems. Physical Review B, 2017, 95, .	1.1	37
136	Coexistence of Gapless Excitations and Commensurate Charge-Density Wave in the 2D Transition Metal Dichalcogenides. Physical Review Letters, 2006, 96, 026406.	2.9	36
137	Photonic Phase Gate via an Exchange of Fermionic Spin Waves in a Spin Chain. Physical Review Letters, 2010, 105, 060502.	2.9	36
138	Solving Quantum Impurity Problems in and out of Equilibrium with the Variational Approach. Physical Review Letters, 2018, 121, 026805.	2.9	35
139	Exploration of doped quantum magnets with ultracold atoms. Annals of Physics, 2021, 435, 168651.	1.0	35
140	Modulation Spectroscopy and Dynamics of Double Occupancies in a Fermionic Mott Insulator. Physical Review Letters, 2009, 103, 035303.	2.9	34
141	Non-Abelian Holonomy of BCS and SDW Quasiparticles. Annals of Physics, 1999, 271, 83-119.	1.0	33
142	Breakdown of the local density approximation in interacting systems of cold fermions in strongly anisotropic traps. Physical Review A, 2006, 74, .	1.0	33
143	Diagnosing phases of magnetic insulators via noise magnetometry with spin qubits. Physical Review B, 2019, 99, .	1.1	33
144	Coupling a Mobile Hole to an Antiferromagnetic Spin Background: Transient Dynamics of a Magnetic Polaron. Physical Review X, 2021, 11, .	2.8	33

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145	Meson formation in mixed-dimensional t-J models. , 2018, 5, .		33
146	Density ordering instabilities of quasi-two-dimensional fermionic polar molecules in single-layer and multilayer configurations: Exact treatment of exchange interactions. Physical Review B, 2011, 84, .	1.1	32
147	Clustered Wigner-crystal phases of cold polar molecules in arrays of one-dimensional tubes. Physical Review B, 2012, 86, .	1.1	32
148	Tunable spin-orbit coupling for ultracold atoms in two-dimensional optical lattices. Physical Review A, 2017, 95, .	1.0	32
149	Strong-coupling Bose polarons out of equilibrium: Dynamical renormalization-group approach. Physical Review A, 2018, 97, .	1.0	32
150	Parton theory of angle-resolved photoemission spectroscopy spectra in antiferromagnetic Mott insulators. Physical Review B, 2020, 102, .	1.1	31
151	Zero-temperature phases of the two-dimensional Hubbard-Holstein model: A non-Gaussian exact diagonalization study. Physical Review Research, 2020, 2, .	1.3	31
152	Properties and detection of spin nematic order in strongly correlated electron systems. New Journal of Physics, 2005, 7, 59-59.	1.2	30
153	Cooling through optimal control of quantum evolution. Physical Review A, 2013, 87, .	1.0	30
154	Unstable Avoided Crossing in Coupled Spinor Condensates. Physical Review Letters, 2014, 113, 065303.	2.9	30
155	Friedel oscillations as a probe of fermionic quasiparticles. Physical Review B, 2016, 93, .	1.1	30
156	Full counting statistics of time-of-flight images. Physical Review A, 2017, 95, .	1.0	30
157	Spin-resolved spectra of Shiba multiplets from Mn impurities in MgB_2 . Physical Review B, 2008, 77, .		29
158	Transmon-based simulator of nonlocal electron-phonon coupling: A platform for observing sharp small-polaron transitions. Physical Review B, 2014, 89, .	1.1	29
159	Non-Gaussian correlations imprinted by local dephasing in fermionic wires. Physical Review B, 2020, 102, .	1.1	29
160	Dissipation and quantum phase transitions of a pair of Josephson junctions. Physical Review B, 2003, 68, .	1.1	28
161	Probing Spatial Spin Correlations of Ultracold Gases by Quantum Noise Spectroscopy. Physical Review Letters, 2009, 102, 030401.	2.9	28
162	Regimes of heating and dynamical response in driven many-body localized systems. Physical Review B, 2016, 94, .	1.1	28

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163	Fractionalization patterns in strongly correlated electron systems: Spin-charge separation and beyond. Physical Review B, 2002, 65, .	1.1	27
164	Self-similar dynamics of order parameter fluctuations in pump-probe experiments. Physical Review B, 2020, 101, .	1.1	27
165	SO(4) Theory of Antiferromagnetism and Superconductivity in Bechgaard Salts. Physical Review Letters, 2004, 93, 246402.	2.9	26
166	Bound states of a localized magnetic impurity in a superfluid of paired ultracold fermions. Physical Review A, 2011, 83, .	1.0	26
167	Many-body interferometry of magnetic polaron dynamics. Physical Review B, 2018, 97, .	1.1	26
168	Parametric resonance of Josephson plasma waves: A theory for optically amplified interlayer superconductivity in YBaCu_2O_6 . Physical Review B, 2020, 102, .	1.1	26
169	A magnon scattering platform. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	26
170	Semiclassical solitons in strongly correlated systems of ultracold bosonic atoms in optical lattices. Annals of Physics, 2011, 326, 1775-1805.	1.0	25
171	Quantum Rydberg Central Spin Model. Physical Review Letters, 2019, 123, 183001.	2.9	25
172	Transverse Spin Dynamics in the Anisotropic Heisenberg Model Realized with Ultracold Atoms. Physical Review X, 2021, 11, .	2.8	25
173	Spontaneous symmetry breaking and exotic quantum orders in integer quantum Hall systems under a tilted magnetic field. Physical Review B, 2003, 68, .	1.1	23
174	Resonant soft X-ray scattering, stripe order, and the electron spectral function in cuprates. Physica C: Superconductivity and Its Applications, 2012, 481, 15-22.	0.6	23
175	noise and generalized diffusion in random Heisenberg spin systems. Physical Review B, 2015, 92, .	1.1	23
176	Transport of Neutral Optical Excitations Using Electric Fields. Physical Review X, 2019, 9, .	2.8	23
177	Phase-Sensitive Measurements of Order Parameters for Ultracold Atoms through Two-Particle Interferometry. Physical Review Letters, 2011, 106, 115302.	2.9	22
178	Quantum correlations at infinite temperature: The dynamical Nagaoka effect. Physical Review B, 2017, 96, .	1.1	22
179	Variational principle for quantum impurity systems in and out of equilibrium: Application to Kondo problems. Physical Review B, 2018, 98, .	1.1	22
180	Correlator convolutional neural networks as an interpretable architecture for image-like quantum matter data. Nature Communications, 2021, 12, 3905.	5.8	22

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181	Cavity magnon-polaritons in cuprate parent compounds. <i>Physical Review Research</i> , 2022, 4, .	1.3	22
182	Mapping of Coulomb gases and sine-Gordon models to statistics of random surfaces. <i>Physical Review A</i> , 2008, 77, .	1.0	21
183	Collective excitations of quasi-two-dimensional trapped dipolar fermions: Transition from collisionless to hydrodynamic regime. <i>Physical Review A</i> , 2012, 86, .	1.0	21
184	Rydberg impurity in a Fermi gas: Quantum statistics and rotational blockade. <i>Physical Review Research</i> , 2020, 2, .	1.3	21
185	Superconducting and charge density wave instabilities in ultrasmall-radius carbon nanotubes. <i>Solid State Communications</i> , 2005, 135, 335-339.	0.9	20
186	Transport in Two-Dimensional Disordered Semimetals. <i>Physical Review Letters</i> , 2014, 113, 186801.	2.9	20
187	Gaussian time-dependent variational principle for the Bose-Hubbard model. <i>Physical Review B</i> , 2019, 100, .	1.1	20
188	Non-Abelian Symmetries and Disorder: A Broad Nonergodic Regime and Anomalous Thermalization. <i>Physical Review X</i> , 2020, 10, .	2.8	20
189	Strong pairing in mixed-dimensional bilayer antiferromagnetic Mott insulators. <i>Nature Physics</i> , 2022, 18, 651-656.	6.5	20
190	Spin-1 atoms in optical superlattices: Single-atom tunneling and entanglement. <i>Physical Review A</i> , 2011, 84, .	1.0	19
191	Pairing instabilities in quasi-two-dimensional Fermi gases. <i>Physical Review A</i> , 2012, 85, .	1.0	19
192	Variational polaron method for Bose-Bose mixtures. <i>Physical Review A</i> , 2014, 89, .	1.0	18
193	Higgs-Mediated Optical Amplification in a Nonequilibrium Superconductor. <i>Physical Review X</i> , 2021, 11, .	2.8	18
194	Magnetoplasmon excitations and spin density instabilities in an integer quantum Hall system with a tilted magnetic field. <i>Physical Review B</i> , 2002, 66, .	1.1	17
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