

Eugene A Demler

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

255
papers

18,238
citations

70
h-index

129
g-index

264
ext. papers

21,685
ext. citations

8
avg, IF

7.04
L-index

#	Paper	IF	Citations
255	Characterizing two-dimensional superconductivity via nanoscale noise magnetometry with single-spin qubits. <i>Physical Review B</i> , 2022 , 105,	3.3	4
254	Single-spin qubit magnetic spectroscopy of two-dimensional superconductivity. <i>Physical Review Research</i> , 2022 , 4,	3.9	2
253	Cavity magnon-polaritons in cuprate parent compounds. <i>Physical Review Research</i> , 2022 , 4,	3.9	4
252	Resonantly enhanced polariton wave mixing and parametric instability in a Floquet medium.. <i>Journal of Chemical Physics</i> , 2022 , 156, 174110	3.9	1
251	Transverse Spin Dynamics in the Anisotropic Heisenberg Model Realized with Ultracold Atoms. <i>Physical Review X</i> , 2021 , 11,	9.1	3
250	Role of Equilibrium Fluctuations in Light-Induced Order. <i>Physical Review Letters</i> , 2021 , 127, 227401	7.4	4
249	Exploration of doped quantum magnets with ultracold atoms. <i>Annals of Physics</i> , 2021 , 168651	2.5	1
248	Dynamical Quantum Cherenkov Transition of Fast Impurities in Quantum Liquids. <i>Physical Review Letters</i> , 2021 , 127, 185302	7.4	4
247	Time-Domain Anyon Interferometry in Kitaev Honeycomb Spin Liquids and Beyond. <i>Physical Review Letters</i> , 2021 , 126, 177204	7.4	1
246	Cavity Quantum Electrodynamics at Arbitrary Light-Matter Coupling Strengths. <i>Physical Review Letters</i> , 2021 , 126, 153603	7.4	13
245	Coupling a Mobile Hole to an Antiferromagnetic Spin Background: Transient Dynamics of a Magnetic Polaron. <i>Physical Review X</i> , 2021 , 11,	9.1	7
244	Generalization of group-theoretic coherent states for variational calculations. <i>Physical Review Research</i> , 2021 , 3,	3.9	4
243	Bilayer Wigner crystals in a transition metal dichalcogenide heterostructure. <i>Nature</i> , 2021 , 595, 48-52	50.4	16
242	Correlator convolutional neural networks as an interpretable architecture for image-like quantum matter data. <i>Nature Communications</i> , 2021 , 12, 3905	17.4	8
241	A magnon scattering platform. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	6
240	Signatures of Wigner crystal of electrons in a monolayer semiconductor. <i>Nature</i> , 2021 , 595, 53-57	50.4	20
239	Quantum generative model for sampling many-body spectral functions. <i>Physical Review B</i> , 2021 , 103,	3.3	1

238	Quantum Simulators: Architectures and Opportunities. <i>PRX Quantum</i> , 2021 , 2,	6.1	47
237	Higgs-Mediated Optical Amplification in a Nonequilibrium Superconductor. <i>Physical Review X</i> , 2021 , 11,	9.1	4
236	Higher-order spin-hole correlations around a localized charge impurity. <i>Physical Review Research</i> , 2021 , 3,	3.9	1
235	Microscopic evolution of doped Mott insulators from polaronic metal to Fermi liquid. <i>Science</i> , 2021 , 374, 82-86	33.3	4
234	Spin transport in a tunable Heisenberg model realized with ultracold atoms. <i>Nature</i> , 2020 , 588, 403-407	50.4	37
233	Parametric resonance of Josephson plasma waves: A theory for optically amplified interlayer superconductivity in YBa ₂ Cu ₃ O _{6+x} . <i>Physical Review B</i> , 2020 , 102,	3.3	7
232	Self-similar dynamics of order parameter fluctuations in pump-probe experiments. <i>Physical Review B</i> , 2020 , 101,	3.3	10
231	Quantum approximate Bayesian computation for NMR model inference. <i>Nature Machine Intelligence</i> , 2020 , 2, 396-402	22.5	4
230	Multiparticle Interactions for Ultracold Atoms in Optical Tweezers: Cyclic Ring-Exchange Terms. <i>Physical Review Letters</i> , 2020 , 124, 073601	7.4	3
229	Fermionic formalism for driven-dissipative multilevel systems. <i>Physical Review A</i> , 2020 , 101,	2.6	6
228	Non-Abelian Symmetries and Disorder: A Broad Nonergodic Regime and Anomalous Thermalization. <i>Physical Review X</i> , 2020 , 10,	9.1	7
227	Rydberg impurity in a Fermi gas: Quantum statistics and rotational blockade. <i>Physical Review Research</i> , 2020 , 2,	3.9	10
226	Ultrafast molecular dynamics in terahertz-STM experiments: Theoretical analysis using the Anderson-Holstein model. <i>Physical Review Research</i> , 2020 , 2,	3.9	5
225	Zero-temperature phases of the two-dimensional Hubbard-Holstein model: A non-Gaussian exact diagonalization study. <i>Physical Review Research</i> , 2020 , 2,	3.9	12
224	Geometry of variational methods: dynamics of closed quantum systems. <i>SciPost Physics</i> , 2020 , 9,	6.1	20
223	Thermal radiation and dissipative phase transition in a BEC with local loss. <i>Annals of Physics</i> , 2020 , 412, 168021	2.5	5
222	Parton theory of angle-resolved photoemission spectroscopy spectra in antiferromagnetic Mott insulators. <i>Physical Review B</i> , 2020 , 102,	3.3	8
221	Quantum Electrodynamical Control of Matter: Cavity-Enhanced Ferroelectric Phase Transition. <i>Physical Review X</i> , 2020 , 10,	9.1	29

220	Variational Approach for Many-Body Systems at Finite Temperature. <i>Physical Review Letters</i> , 2020 , 125, 180602	7.4	9
219	Non-Gaussian correlations imprinted by local dephasing in fermionic wires. <i>Physical Review B</i> , 2020 , 102,	3.3	9
218	Universal Prethermal Dynamics in Heisenberg Ferromagnets. <i>Physical Review Letters</i> , 2020 , 125, 230601	7.4	4
217	Ab initio exact diagonalization simulation of the Nagaoka transition in quantum dots. <i>Physical Review B</i> , 2019 , 100,	3.3	7
216	Gaussian time-dependent variational principle for the Bose-Hubbard model. <i>Physical Review B</i> , 2019 , 100,	3.3	14
215	Dicke time crystals in driven-dissipative quantum many-body systems. <i>New Journal of Physics</i> , 2019 , 21, 073028	2.9	49
214	From the moving piston to the dynamical Casimir effect: Explorations with shaken condensates. <i>Physical Review A</i> , 2019 , 99,	2.6	7
213	Microscopic spinon-charge theory of magnetic polarons in the $t\bar{J}$ model. <i>Physical Review B</i> , 2019 , 99,	3.3	17
212	Diagnosing phases of magnetic insulators via noise magnetometry with spin qubits. <i>Physical Review B</i> , 2019 , 99,	3.3	14
211	Imaging magnetic polarons in the doped Fermi-Hubbard model. <i>Nature</i> , 2019 , 572, 358-362	50.4	48
210	String patterns in the doped Hubbard model. <i>Science</i> , 2019 , 365, 251-256	33.3	48
209	Classifying snapshots of the doped Hubbard model with machine learning. <i>Nature Physics</i> , 2019 , 15, 921-924	16.4	45
208	Efficient variational approach to dynamics of a spatially extended bosonic Kondo model. <i>Physical Review A</i> , 2019 , 100,	2.6	7
207	Quantum Rydberg Central Spin Model. <i>Physical Review Letters</i> , 2019 , 123, 183001	7.4	17
206	Atomtronics with a spin: Statistics of spin transport and nonequilibrium orthogonality catastrophe in cold quantum gases. <i>Physical Review B</i> , 2019 , 99,	3.3	4
205	Transport of Neutral Optical Excitations Using Electric Fields. <i>Physical Review X</i> , 2019 , 9,	9.1	12
204	Electron-phonon instability in graphene revealed by global and local noise probes. <i>Science</i> , 2019 , 364, 154-157	33.3	29
203	Floquet approach to Z2 lattice gauge theories with ultracold atoms in optical lattices. <i>Nature Physics</i> , 2019 , 15, 1168-1173	16.2	95

202	Coupling ultracold matter to dynamical gauge fields in optical lattices: From flux attachment to Z lattice gauge theories. <i>Science Advances</i> , 2019 , 5, eaav7444	14.3	35
201	Many-body interferometry of magnetic polaron dynamics. <i>Physical Review B</i> , 2018 , 97,	3.3	21
200	Selective state spectroscopy and multifractality in disordered Bose-Einstein condensates: a numerical study. <i>Scientific Reports</i> , 2018 , 8, 3641	4.9	1
199	Variational study of fermionic and bosonic systems with non-Gaussian states: Theory and applications. <i>Annals of Physics</i> , 2018 , 390, 245-302	2.5	48
198	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	14.4	84
197	Exploring the anisotropic Kondo model in and out of equilibrium with alkaline-earth atoms. <i>Physical Review B</i> , 2018 , 97,	3.3	22
196	Relaxation to a Phase-Locked Equilibrium State in a One-Dimensional Bosonic Josephson Junction. <i>Physical Review Letters</i> , 2018 , 120, 173601	7.4	36
195	Strong-coupling Bose polarons out of equilibrium: Dynamical renormalization-group approach. <i>Physical Review A</i> , 2018 , 97,	2.6	27
194	Variational principle for quantum impurity systems in and out of equilibrium: Application to Kondo problems. <i>Physical Review B</i> , 2018 , 98,	3.3	19
193	Solving Quantum Impurity Problems in and out of Equilibrium with the Variational Approach. <i>Physical Review Letters</i> , 2018 , 121, 026805	7.4	22
192	Meson formation in mixed-dimensional t-J models 2018 , 5,		16
191	Probing one-dimensional systems via noise magnetometry with single spin qubits. <i>Physical Review B</i> , 2018 , 98,	3.3	10
190	Observation of discrete time-crystalline order in a disordered dipolar many-body system. <i>Nature</i> , 2017 , 543, 221-225	50.4	468
189	Depolarization Dynamics in a Strongly Interacting Solid-State Spin Ensemble. <i>Physical Review Letters</i> , 2017 , 118, 093601	7.4	59
188	A cold-atom Fermi-Hubbard antiferromagnet. <i>Nature</i> , 2017 , 545, 462-466	50.4	329
187	Bloch oscillations in the absence of a lattice. <i>Science</i> , 2017 , 356, 945-948	33.3	71
186	Revealing hidden antiferromagnetic correlations in doped Hubbard chains via string correlators. <i>Science</i> , 2017 , 357, 484-487	33.3	94
185	Quantum heat waves in a one-dimensional condensate. <i>Physical Review B</i> , 2017 , 95,	3.3	5

184	Theory of parametrically amplified electron-phonon superconductivity. <i>Physical Review B</i> , 2017 , 96,	3.3	78
183	Quantum correlations at infinite temperature: The dynamical Nagaoka effect. <i>Physical Review B</i> , 2017 , 96,	3.3	12
182	Rare-region effects and dynamics near the many-body localization transition. <i>Annalen Der Physik</i> , 2017 , 529, 1600326	2.6	105
181	Full counting statistics of time-of-flight images. <i>Physical Review A</i> , 2017 , 95,	2.6	22
180	Entanglement and entropy production in coupled single-mode Bose-Einstein condensates. <i>Physical Review A</i> , 2017 , 96,	2.6	4
179	Magnetic noise spectroscopy as a probe of local electronic correlations in two-dimensional systems. <i>Physical Review B</i> , 2017 , 95,	3.3	23
178	Tunable spin-orbit coupling for ultracold atoms in two-dimensional optical lattices. <i>Physical Review A</i> , 2017 , 95,	2.6	23
177	Fermi polaron-polaritons in charge-tunable atomically thin semiconductors. <i>Nature Physics</i> , 2017 , 13, 255-261	16.2	254
176	Bose polarons in ultracold atoms in one dimension: beyond the Fröhlich paradigm. <i>New Journal of Physics</i> , 2017 , 19, 103035	2.9	70
175	Intertwined and vestigial order with ultracold atoms in multiple cavity modes. <i>Physical Review A</i> , 2017 , 96,	2.6	10
174	Auxiliary fermion approach to the resonant inelastic x-ray scattering response in an underdoped cuprate. <i>Physical Review B</i> , 2017 , 96,	3.3	5
173	Quantum-fluctuation-induced time-of-flight correlations of an interacting trapped Bose gas. <i>Physical Review A</i> , 2017 , 95,	2.6	5
172	Holographic maps of quasiparticle interference. <i>Nature Physics</i> , 2016 , 12, 1052-1056	16.2	12
171	Polaronic mass renormalization of impurities in Bose-Einstein condensates: Correlated Gaussian-wave-function approach. <i>Physical Review A</i> , 2016 , 93,	2.6	40
170	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	67
169	Griffiths effects and slow dynamics in nearly many-body localized systems. <i>Physical Review B</i> , 2016 , 93,	3.3	93
168	Weak crystallization theory of metallic alloys. <i>Physical Review B</i> , 2016 , 93,	3.3	4
167	Friedel oscillations as a probe of fermionic quasiparticles. <i>Physical Review B</i> , 2016 , 93,	3.3	23

166	Superconducting pairing in resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2016 , 94,	3.3	3
165	Dicke phase transition without total spin conservation. <i>Physical Review A</i> , 2016 , 94,	2.6	29
164	Dynamical Cooper pairing in nonequilibrium electron-phonon systems. <i>Physical Review B</i> , 2016 , 94,	3.3	100
163	Bloch state tomography using Wilson lines. <i>Science</i> , 2016 , 352, 1094-7	33.3	100
162	Quantum Dynamics of Ultracold Bose Polarons. <i>Physical Review Letters</i> , 2016 , 117, 113002	7.4	101
161	Regimes of heating and dynamical response in driven many-body localized systems. <i>Physical Review B</i> , 2016 , 94,	3.3	22
160	Ultrafast many-body interferometry of impurities coupled to a Fermi sea. <i>Science</i> , 2016 , 354, 96-99	33.3	170
159	Dynamical instabilities and transient short-range order in the fermionic Hubbard model. <i>Physical Review B</i> , 2015 , 92,	3.3	11
158	Dynamical stability of a many-body Kapitza pendulum. <i>Annals of Physics</i> , 2015 , 360, 694-710	2.5	58
157	Anomalous diffusion and griffiths effects near the many-body localization transition. <i>Physical Review Letters</i> , 2015 , 114, 160401	7.4	260
156	Exploring quasiparticles in high-Tccuprates through photoemission, tunneling, and x-ray scattering experiments. <i>New Journal of Physics</i> , 2015 , 17, 022001	2.9	15
155	Exploring dynamical phase transitions and prethermalization with quantum noise of excitations. <i>Physical Review B</i> , 2015 , 91,	3.3	55
154	Probing competing and intertwined orders with resonant inelastic x-ray scattering in the hole-doped cuprates. <i>Physical Review B</i> , 2015 , 92,	3.3	4
153	$1/f$ noise and generalized diffusion in random Heisenberg spin systems. <i>Physical Review B</i> , 2015 , 92,	3.3	20
152	Mobile magnetic impurities in a Fermi superfluid: a route to designer molecules. <i>Physical Review Letters</i> , 2015 , 114, 045301	7.4	7
151	Prethermal Floquet Steady States and Instabilities in the Periodically Driven, Weakly Interacting Bose-Hubbard Model. <i>Physical Review Letters</i> , 2015 , 115, 205301	7.4	91
150	Low-frequency conductivity in many-body localized systems. <i>Physical Review B</i> , 2015 , 92,	3.3	128
149	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	55

148	Quantum flutter: signatures and robustness. <i>Physical Review Letters</i> , 2014 , 112, 015302	7.4	37
147	Far-from-equilibrium spin transport in Heisenberg quantum magnets. <i>Physical Review Letters</i> , 2014 , 113, 147205	7.4	128
146	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	23
145	Transport in two-dimensional disordered semimetals. <i>Physical Review Letters</i> , 2014 , 113, 186801	7.4	19
144	Gopalakrishnan, Martin, and Demler reply:. <i>Physical Review Letters</i> , 2014 , 113, 079603	7.4	2
143	Studying non-equilibrium many-body dynamics using one-dimensional Bose gases 2014 ,		4
142	Variational polaron method for Bose-Bose mixtures. <i>Physical Review A</i> , 2014 , 89,	2.6	15
141	Radio-frequency spectroscopy of polarons in ultracold Bose gases. <i>Physical Review A</i> , 2014 , 89,	2.6	68
140	Chiral prethermalization in supersonically split condensates. <i>Physical Review Letters</i> , 2014 , 113, 190401	7.4	17
139	Hilbert-Glass Transition: New Universality of Temperature-Tuned Many-Body Dynamical Quantum Criticality. <i>Physical Review X</i> , 2014 , 4,	9.1	169
138	Unstable avoided crossing in coupled spinor condensates. <i>Physical Review Letters</i> , 2014 , 113, 065303	7.4	25
137	Single-band model of resonant inelastic x-ray scattering by quasiparticles in high-T(c) cuprate superconductors. <i>Physical Review Letters</i> , 2014 , 112, 247002	7.4	30
136	Quantum quasicrystals of spin-orbit-coupled dipolar bosons. <i>Physical Review Letters</i> , 2013 , 111, 185304	7.4	50
135	Direct measurement of the Zak phase in topological Bloch bands. <i>Nature Physics</i> , 2013 , 9, 795-800	16.2	545
134	Dissipative preparation of spin squeezed atomic ensembles in a steady state. <i>Physical Review Letters</i> , 2013 , 110, 120402	7.4	117
133	Microscopic theory of resonant soft-x-ray scattering in materials with charge order: the example of charge stripes in high-temperature cuprate superconductors. <i>Physical Review Letters</i> , 2013 , 110, 137002	7.4	14
132	Cooling through optimal control of quantum evolution. <i>Physical Review A</i> , 2013 , 87,	2.6	25
131	Polaronic model of two-level systems in amorphous solids. <i>Physical Review B</i> , 2013 , 87,	3.3	28

130	Realizing a Kondo-correlated state with ultracold atoms. <i>Physical Review Letters</i> , 2013 , 111, 215304	7.4	53
129	Universal behavior of repulsive two-dimensional fermions in the vicinity of the quantum freezing point. <i>Europhysics Letters</i> , 2013 , 103, 16002	1.6	10
128	Probing real-space and time-resolved correlation functions with many-body Ramsey interferometry. <i>Physical Review Letters</i> , 2013 , 111, 147205	7.4	77
127	Dissipative dynamics of a driven quantum spin coupled to a bath of ultracold fermions. <i>Physical Review Letters</i> , 2013 , 111, 265302	7.4	12
126	Bound states at impurities as a probe of topological superconductivity in nanowires. <i>Physical Review B</i> , 2013 , 88,	3.3	53
125	Proposal for coherent coupling of Majorana zero modes and superconducting qubits using the 4 π Josephson effect. <i>Physical Review Letters</i> , 2013 , 111, 107007	7.4	46
124	Interferometric approach to measuring band topology in 2D optical lattices. <i>Physical Review Letters</i> , 2013 , 110, 165304	7.4	84
123	Universal rephasing dynamics after a quantum quench via sudden coupling of two initially independent condensates. <i>Physical Review Letters</i> , 2013 , 110, 090404	7.4	45
122	Quantum flutter of supersonic particles in one-dimensional quantum liquids. <i>Nature Physics</i> , 2012 , 8, 881-886	16.2	55
121	Collective excitations of quasi-two-dimensional trapped dipolar fermions: Transition from collisionless to hydrodynamic regime. <i>Physical Review A</i> , 2012 , 86,	2.6	17
120	Fermionic transport and out-of-equilibrium dynamics in a homogeneous Hubbard model with ultracold atoms. <i>Nature Physics</i> , 2012 , 8, 213-218	16.2	289
119	Time-Dependent Impurity in Ultracold Fermions: Orthogonality Catastrophe and Beyond. <i>Physical Review X</i> , 2012 , 2,	9.1	120
118	Photo control of transport properties in a disordered wire: Average conductance, conductance statistics, and time-reversal symmetry. <i>Annals of Physics</i> , 2012 , 327, 1868-1889	2.5	5
117	Resonant soft X-ray scattering, stripe order, and the electron spectral function in cuprates. <i>Physica C: Superconductivity and Its Applications</i> , 2012 , 481, 15-22	1.3	19
116	The O'Connell amplitude mode at the two-dimensional superfluid/Mott insulator transition. <i>Nature</i> , 2012 , 487, 454-8	50.4	223
115	Quantum transport of strongly interacting photons in a one-dimensional nonlinear waveguide. <i>Physical Review A</i> , 2012 , 85,	2.6	38
114	Observation of topologically protected bound states in photonic quantum walks. <i>Nature Communications</i> , 2012 , 3, 882	17.4	376
113	Doublon production rate in modulated optical lattices. <i>Physical Review A</i> , 2012 , 85,	2.6	10

112	Measuring entanglement entropy of a generic many-body system with a quantum switch. <i>Physical Review Letters</i> , 2012 , 109, 020504	7.4	134
111	Noisy quantum phase transitions: an intuitive approach. <i>Physica Scripta</i> , 2012 , T151, 014026	2.6	1
110	Mott criticality and pseudogap in Bose-Fermi mixtures. <i>Physical Review Letters</i> , 2012 , 109, 235304	7.4	1
109	Dynamics and universality in noise-driven dissipative systems. <i>Physical Review B</i> , 2012 , 85,	3.3	58
108	Clustered Wigner-crystal phases of cold polar molecules in arrays of one-dimensional tubes. <i>Physical Review B</i> , 2012 , 86,	3.3	28
107	Pairing instabilities in quasi-two-dimensional Fermi gases. <i>Physical Review A</i> , 2012 , 85,	2.6	18
106	Fermi polarons in two dimensions. <i>Physical Review A</i> , 2012 , 85,	2.6	91
105	Robust optical delay lines with topological protection. <i>Nature Physics</i> , 2011 , 7, 907-912	16.2	830
104	Spin-1 atoms in optical superlattices: Single-atom tunneling and entanglement. <i>Physical Review A</i> , 2011 , 84,	2.6	19
103	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	30
102	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	623
101	Majorana fermions in equilibrium and in driven cold-atom quantum wires. <i>Physical Review Letters</i> , 2011 , 106, 220402	7.4	501
100	Semiclassical solitons in strongly correlated systems of ultracold bosonic atoms in optical lattices. <i>Annals of Physics</i> , 2011 , 326, 1775-1805	2.5	20
99	Collective phenomena in a quasi-two-dimensional system of fermionic polar molecules: Band renormalization and excitons. <i>Physical Review A</i> , 2011 , 84,	2.6	12
98	Quantum magnetism with polar alkali-metal dimers. <i>Physical Review A</i> , 2011 , 84,	2.6	111
97	Bound states of a localized magnetic impurity in a superfluid of paired ultracold fermions. <i>Physical Review A</i> , 2011 , 83,	2.6	23
96	Relaxation of fermionic excitations in a strongly attractive Fermi gas in an optical lattice. <i>Physical Review Letters</i> , 2011 , 107, 145303	7.4	6
95	Phase-sensitive measurements of order parameters for ultracold atoms through two-particle interferometry. <i>Physical Review Letters</i> , 2011 , 106, 115302	7.4	20

94	Tunable superfluidity and quantum magnetism with ultracold polar molecules. <i>Physical Review Letters</i> , 2011 , 107, 115301	7.4	194
93	Competition between pairing and ferromagnetic instabilities in ultracold Fermi gases near Feshbach resonances. <i>Physical Review Letters</i> , 2011 , 106, 050402	7.4	105
92	Observation of topologically protected bound states in photonic quantum walks 2011 ,		1
91	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	102
90	Quantum critical states and phase transitions in the presence of non-equilibrium noise. <i>Nature Physics</i> , 2010 , 6, 806-810	16.2	114
89	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	7.4	49
88	Superfluidity and dimerization in a multilayered system of fermionic polar molecules. <i>Physical Review Letters</i> , 2010 , 105, 220406	7.4	60
87	Adiabatic preparation of many-body states in optical lattices. <i>Physical Review A</i> , 2010 , 81,	2.6	40
86	Anomalous expansion of attractively interacting fermionic atoms in an optical lattice. <i>Science</i> , 2010 , 327, 1621-4	33.3	72
85	Lifetime of double occupancies in the Fermi-Hubbard model. <i>Physical Review B</i> , 2010 , 82,	3.3	73
84	Finding the elusive sliding phase in the superfluid-normal phase transition smeared by c-axis disorder. <i>Physical Review Letters</i> , 2010 , 105, 085302	7.4	14
83	Photonic phase gate via an exchange of fermionic spin waves in a spin chain. <i>Physical Review Letters</i> , 2010 , 105, 060502	7.4	32
82	RESISTANCE IN SUPERCONDUCTORS. <i>International Journal of Modern Physics B</i> , 2010 , 24, 4039-4080	1.1	29
81	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	98
80	Scaling approach to quantum non-equilibrium dynamics of many-body systems. <i>New Journal of Physics</i> , 2010 , 12, 113005	2.9	61
79	Observation of elastic doublon decay in the Fermi-Hubbard model. <i>Physical Review Letters</i> , 2010 , 104, 080401	7.4	186
78	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	1.9	58
77	Topological characterization of periodically driven quantum systems. <i>Physical Review B</i> , 2010 , 82,	3.3	700

76	Exploring topological phases with quantum walks. <i>Physical Review A</i> , 2010 , 82,	2.6	308
75	RESISTANCE IN SUPERCONDUCTORS 2010 , 185-226		2
74	Superconductor to normal-metal transition in finite-length nanowires: Phenomenological model. <i>Physical Review B</i> , 2009 , 79,	3.3	11
73	Modulation spectroscopy and dynamics of double occupancies in a fermionic Mott insulator. <i>Physical Review Letters</i> , 2009 , 103, 035303	7.4	32
72	Vortex molecules in spinor condensates. <i>Physical Review B</i> , 2009 , 79,	3.3	5
71	Probing spatial spin correlations of ultracold gases by quantum noise spectroscopy. <i>Physical Review Letters</i> , 2009 , 102, 030401	7.4	24
70	Relaxation of antiferromagnetic order in spin-1/2 chains following a quantum quench. <i>Physical Review Letters</i> , 2009 , 102, 130603	7.4	150
69	Anyonic interferometry and protected memories in atomic spin lattices. <i>Nature Physics</i> , 2008 , 4, 482-488	16.2	89
68	Quantum spin dynamics of mode-squeezed Luttinger liquids in two-component atomic gases. <i>Physical Review Letters</i> , 2008 , 100, 140401	7.4	97
67	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	7.4	39
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