

James K. Freericks

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/5378791/james-k-freericks-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

250
papers

7,568
citations

42
h-index

80
g-index

279
ext. papers

8,384
ext. citations

4.3
avg, IF

6.09
L-index

#	Paper	IF	Citations
250	Cartesian Operator Factorization Method for Hydrogen. <i>Atoms</i> , 2022 , 10, 14	2.1	1
249	Flexibility of the factorized form of the unitary coupled cluster Ansatz.. <i>Journal of Chemical Physics</i> , 2022 , 156, 044106	3.9	1
248	Real-time evolution of static electron-phonon models in time-dependent electric fields.. <i>Physical Review E</i> , 2022 , 105, 025301	2.4	0
247	Operator Relationship between Conventional Coupled Cluster and Unitary Coupled Cluster. <i>Symmetry</i> , 2022 , 14, 494	2.7	0
246	Determining Ground-State Phase Diagrams on Quantum Computers via a Generalized Application of Adiabatic State Preparation. <i>Symmetry</i> , 2022 , 14, 809	2.7	0
245	Schrödinger's original quantum-mechanical solution for hydrogen. <i>European Journal of Physics</i> , 2021 , 42, 035405	0.8	1
244	Sparse-Hamiltonian approach to the time-evolution of molecules on quantum computers. <i>European Physical Journal: Special Topics</i> , 2021 , 230, 1067-1071	2.3	1
243	Converting translation operators into plane polar and spherical coordinates and their use in determining quantum-mechanical wavefunctions in a representation-independent fashion. <i>Journal of Mathematical Physics</i> , 2021 , 62, 072102	1.2	1
242	Quantum-Inspired Algorithm for the Factorized Form of Unitary Coupled Cluster Theory. <i>Journal of Chemical Theory and Computation</i> , 2021 , 17, 841-847	6.4	9
241	Algebraic derivation of Kramers-Basternack relations based on the Schrödinger factorization method. <i>European Journal of Physics</i> , 2021 , 42, 025409	0.8	1
240	What do the two times in two-time correlation functions mean for interpreting tr-ARPES?. <i>Journal of Electron Spectroscopy and Related Phenomena</i> , 2021 , 251, 147104	1.7	0
239	Many-body thermodynamics on quantum computers via partition function zeros. <i>Science Advances</i> , 2021 , 7,	14.3	2
238	Making squeezed-coherent states concrete by determining their wavefunction. <i>American Journal of Physics</i> , 2021 , 89, 885-896	0.7	
237	Native multiqubit Toffoli gates on ion trap quantum computers. <i>Quantum Science and Technology</i> , 2021 , 6, 044010	5.5	
236	Application of Quantum Computing to Biochemical Systems: A Look to the Future. <i>Frontiers in Chemistry</i> , 2020 , 8, 587143	5	9
235	Minimal effective Gibbs ansatz: A simple protocol for extracting an accurate thermal representation for quantum simulation. <i>Physical Review A</i> , 2020 , 102,	2.6	5
234	Incorporating the Stern-Gerlach delayed-choice quantum eraser into the undergraduate quantum mechanics curriculum. <i>American Journal of Physics</i> , 2020 , 88, 298-307	0.7	2

233	Comparison Between the f-Electron and Conduction-Electron Density of States in the Falicov-Kimball Model at Low Temperature. <i>Journal of Superconductivity and Novel Magnetism</i> , 2020 , 33, 2419-2425	1.5	1
232	Quantum computation of magnon spectra. <i>Physical Review B</i> , 2020 , 101,	3.3	13
231	Test of the unitary coupled-cluster variational quantum eigensolver for a simple strongly correlated condensed-matter system. <i>Modern Physics Letters B</i> , 2020 , 34, 2040049	1.6	10
230	A completely algebraic solution of the simple harmonic oscillator. <i>American Journal of Physics</i> , 2020 , 88, 976-985	0.7	6
229	Characterizing the Non-equilibrium Dynamics of Field-Driven Correlated Quantum Systems. <i>Frontiers in Physics</i> , 2020 , 8,	3.9	2
228	Driven-dissipative quantum mechanics on a lattice: Simulating a fermionic reservoir on a quantum computer. <i>Physical Review B</i> , 2020 , 102,	3.3	8
227	Stroboscopic Tests for Thermalization of Electrons in Pump-Probe Experiments. <i>Physical Review Letters</i> , 2019 , 122, 247402	7.4	3
226	Proving the existence of bound states for attractive potentials in one-dimension and two-dimensions without calculus. <i>European Journal of Physics</i> , 2019 , 40, 045404	0.8	5
225	Theory for time-resolved resonant inelastic x-ray scattering. <i>Physical Review B</i> , 2019 , 99,	3.3	12
224	Positivity of the Spectral Densities of Retarded Floquet Green Functions. <i>Physical Review Letters</i> , 2019 , 122, 130604	7.4	6
223	X-ray photoemission spectroscopy in the Falicov-Kimball model. <i>Physical Review B</i> , 2019 , 99,	3.3	1
222	Relationship between the transverse-field Ising model and the XY model via the rotating-wave approximation. <i>Physical Review A</i> , 2018 , 97,	2.6	2
221	Bang-bang shortcut to adiabaticity in trapped-ion quantum simulators. <i>Physical Review A</i> , 2018 , 97,	2.6	8
220	Nonequilibrium electron and lattice dynamics of strongly correlated BiSrCaCuO single crystals. <i>Science Advances</i> , 2018 , 4, eaap7427	14.3	41
219	Emergence of Floquet behavior for lattice fermions driven by light pulses. <i>Physical Review B</i> , 2018 , 98,	3.3	9
218	Verification of a Many-Ion Simulator of the Dicke Model Through Slow Quenches across a Phase Transition. <i>Physical Review Letters</i> , 2018 , 121, 040503	7.4	61
217	Nonresonant pump/probe electronic Raman scattering within nonequilibrium dynamical mean-field theory 2018 ,		2
216	Nonequilibrium electron dynamics in pump-probe spectroscopy: Role of excited phonon populations. <i>Physical Review B</i> , 2018 , 98,	3.3	10

215	Spin and pseudospin towers of the Hubbard model on a bipartite lattice. <i>International Journal of Modern Physics B</i> , 2018 , 32, 1840021	1.1	
214	Bang-bang shortcut to adiabaticity in the Dicke model as realized in a Penning trap experiment. <i>New Journal of Physics</i> , 2018 , 20, 055013	2.9	23
213	The role of average time dependence on the relaxation of excited electron populations in nonequilibrium many-body physics. <i>Fortschritte Der Physik</i> , 2017 , 65, 1600042	5.7	2
212	Amplitude mode oscillations in pump-probe photoemission spectra from a d-wave superconductor. <i>Physical Review B</i> , 2017 , 96,	3.3	12
211	Exact Time Evolution of the Asymmetric Hubbard Dimer. <i>Journal of Superconductivity and Novel Magnetism</i> , 2017 , 30, 97-102	1.5	4
210	Thermoelectric transport parallel to the planes in a multilayered Mott-Hubbard heterostructure. <i>Physical Review B</i> , 2017 , 96,	3.3	2
209	Review of the Theoretical Description of Time-Resolved Angle-Resolved Photoemission Spectroscopy in Electron-Phonon Mediated Superconductors. <i>Annalen Der Physik</i> , 2017 , 529, 1600235	2.6	28
208	Theoretical description of pump/probe experiments in electron-mediated charge-density-wave insulators. <i>Physica Scripta</i> , 2017 , 92, 034007	2.6	6
207	Time-domain pumping a quantum-critical charge density wave ordered material. <i>Physical Review B</i> , 2016 , 94,	3.3	11
206	Zone-center phonons of bulk, few-layer, and monolayer $1T\bar{d}TaS_2$: Detection of commensurate charge density wave phase through Raman scattering. <i>Physical Review B</i> , 2016 , 93,	3.3	58
205	Nonperturbative calculation of phonon effects on spin squeezing. <i>Physical Review A</i> , 2016 , 93,	2.6	11
204	Measuring nonequilibrium retarded spin-spin Green's functions in an ion-trap-based quantum simulator. <i>Physical Review A</i> , 2016 , 93,	2.6	3
203	Nonequilibrium response of an electron-mediated charge density wave ordered material to a large dc electric field. <i>Physical Review B</i> , 2016 , 93,	3.3	5
202	Generalized gradient expansion for inhomogeneous dynamical mean-field theory: Application to ultracold atoms in a harmonic trap. <i>Physical Review A</i> , 2016 , 94,	2.6	2
201	Nonequilibrium Dynamical Mean-Field Theory for the Charge-Density-Wave Phase of the Falicov-Kimball Model. <i>Journal of Superconductivity and Novel Magnetism</i> , 2016 , 29, 581-585	1.5	5
200	Transport in Multilayered Nanostructures 2016 ,		6
199	Relationship between Population Dynamics and the Self-Energy in Driven Non-Equilibrium Systems. <i>Entropy</i> , 2016 , 18, 180	2.8	8
198	Constant Matrix Element Approximation to Time-Resolved Angle-Resolved Photoemission Spectroscopy. <i>Photonics</i> , 2016 , 3, 58	2.2	5

197	Creating analogs of thermal distributions from diabatic excitations in ion-trap-based quantum simulation. <i>New Journal of Physics</i> , 2016 , 18, 043026	2.9	3
196	Energy dissipation from a correlated system driven out of equilibrium. <i>Nature Communications</i> , 2016 , 7, 13761	17.4	53
195	Theoretical description of pump/probe experiments in nesting induced charge density wave insulators 2016 ,		2
194	Infinite single-particle bandwidth of a MottHubbard insulator. <i>International Journal of Modern Physics B</i> , 2016 , 30, 1642001	1.1	
193	Long-lived nonequilibrium states in the Hubbard model with an electric field. <i>Physical Review B</i> , 2015 , 91,	3.3	8
192	Theory of Floquet band formation and local pseudospin textures in pump-probe photoemission of graphene. <i>Nature Communications</i> , 2015 , 6, 7047	17.4	146
191	Creation of two-dimensional Coulomb crystals of ions in oblate Paul traps for quantum simulations. <i>EPJ Quantum Technology</i> , 2015 , 2,	6.9	21
190	Robust finite-temperature disordered Mott-insulating phases in inhomogeneous Fermi-Fermi mixtures with density and mass imbalance. <i>Physical Review A</i> , 2015 , 91,	2.6	5
189	Ubiquity of linear resistivity at intermediate temperature in bad metals. <i>Physical Review B</i> , 2015 , 91,	3.3	3
188	Thermoelectricity in tunneling nanostructures. <i>Physical Review B</i> , 2015 , 92,	3.3	20
187	Direct observation of Higgs mode oscillations in the pump-probe photoemission spectra of electron-phonon mediated superconductors. <i>Physical Review B</i> , 2015 , 92,	3.3	61
186	Theoretical basis for quantum simulation with a planar ionic crystal in a Penning trap using a triangular rotating wall. <i>Physical Review A</i> , 2015 , 92,	2.6	4
185	Feshbach modulation spectroscopy of the Fermi-Hubbard model. <i>Physical Review A</i> , 2015 , 92,	2.6	3
184	Gauge invariance in the theoretical description of time-resolved angle-resolved pump/probe photoemission spectroscopy. <i>Physica Scripta</i> , 2015 , T165, 014012	2.6	10
183	Universal thermopower of bad metals. <i>Journal of Physics: Conference Series</i> , 2015 , 592, 012056	0.3	1
182	Estimating the ground-state probability of a quantum simulation with product-state measurements. <i>Frontiers in Physics</i> , 2015 , 3,	3.9	2
181	Nonequilibrium "melting" of a charge density wave insulator via an ultrafast laser pulse. <i>Physical Review Letters</i> , 2014 , 112, 176404	7.4	27
180	Exact solution for high harmonic generation and the response to an ac driving field for a charge density wave insulator. <i>Physical Review B</i> , 2014 , 90,	3.3	2

179	Exact solution for Bloch oscillations of a simple charge-density-wave insulator. <i>Physical Review B</i> , 2014 , 89,	3.3	8
178	Thermalization of field driven quantum systems. <i>Scientific Reports</i> , 2014 , 4, 4699	4.9	10
177	The nonequilibrium quantum many-body problem as a paradigm for extreme data science. <i>International Journal of Modern Physics B</i> , 2014 , 28, 1430021	1.1	4
176	Frustrated phase separation in the momentum distribution of field-driven light-heavy Fermi-Fermi mixtures of ultracold atoms. <i>Physical Review A</i> , 2014 , 90,	2.6	1
175	Diabatic-ramping spectroscopy of many-body excited states. <i>Physical Review A</i> , 2014 , 90,	2.6	9
174	Theoretical description of coherent doublon creation via lattice modulation spectroscopy. <i>Physical Review A</i> , 2014 , 89,	2.6	9
173	Universal thermopower of bad metals. <i>Physical Review B</i> , 2014 , 89,	3.3	17
172	Intrinsic anharmonic effects on the phonon frequencies and effective spin-spin interactions in a quantum simulator made from trapped ions in a linear Paul trap. <i>Physical Review A</i> , 2014 , 90,	2.6	3
171	Beyond Planck-Einstein quanta: Amplitude-driven quantum excitation. <i>Physical Review B</i> , 2014 , 90,	3.3	1
170	Effect of dynamical spectral weight redistribution on effective interactions in time-resolved spectroscopy. <i>Physical Review B</i> , 2014 , 90,	3.3	38
169	Simulation of inhomogeneous distributions of ultracold atoms in an optical lattice via a massively parallel implementation of nonequilibrium strong-coupling perturbation theory. <i>Physical Review E</i> , 2014 , 89, 023306	2.4	5
168	Emergence and frustration of magnetism with variable-range interactions in a quantum simulator. <i>Science</i> , 2013 , 340, 583-7	33.3	301
167	Theoretical description of high-order harmonic generation in solids. <i>New Journal of Physics</i> , 2013 , 15, 023003	2.9	62
166	Spectral moment sum rules for the retarded Green's function and self-energy of the inhomogeneous Bose-Hubbard model in equilibrium and nonequilibrium. <i>Physical Review A</i> , 2013 , 87,	2.6	2
165	Examining Electron-Boson Coupling Using Time-Resolved Spectroscopy. <i>Physical Review X</i> , 2013 , 3,	9.1	72
164	Phonon-mediated quantum spin simulator employing a planar ionic crystal in a Penning trap. <i>Physical Review A</i> , 2013 , 87,	2.6	20
163	Electron-mediated relaxation following ultrafast pumping of strongly correlated materials: model evidence of a correlation-tuned crossover between thermal and nonthermal states. <i>Physical Review Letters</i> , 2013 , 111, 077401	7.4	26
162	Publisher's Note: Phonon-mediated quantum spin simulator employing a planar ionic crystal in a Penning trap [Phys. Rev. A 87, 013422 (2013)]. <i>Physical Review A</i> , 2013 , 87,	2.6	3

161	Mapping of unoccupied states and relevant bosonic modes via the time-dependent momentum distribution. <i>Physical Review B</i> , 2013 , 87,	3.3	33
160	Effect of defects on phonons and the effective spin-spin interactions of an ultracold Penning-trap quantum simulator. <i>Physical Review A</i> , 2013 , 88,	2.6	4
159	Strong-coupling expansion for ultracold bosons in an optical lattice at finite temperatures in the presence of superfluidity. <i>Physical Review A</i> , 2013 , 88,	2.6	3
158	Quasiuniversal transient behavior of a nonequilibrium Mott insulator driven by an electric field. <i>Physical Review Letters</i> , 2012 , 109, 260402	7.4	8
157	Resonant inelastic x-ray scattering in a Mott insulator. <i>Physical Review B</i> , 2012 , 86,	3.3	9
156	Strongly enhanced thermal transport in a lightly doped Mott insulator at low temperature. <i>Physical Review Letters</i> , 2012 , 109, 266601	7.4	11
155	Engineered two-dimensional Ising interactions in a trapped-ion quantum simulator with hundreds of spins. <i>Nature</i> , 2012 , 484, 489-92	50.4	566
154	Pulsed high harmonic generation of light due to pumped Bloch oscillations in noninteracting metals. <i>Physica Scripta</i> , 2012 , T151, 014062	2.6	4
153	Spectroscopy and thermometry of drumhead modes in a mesoscopic trapped-ion crystal using entanglement. <i>Physical Review Letters</i> , 2012 , 108, 213003	7.4	38
152	Many-body effects on the capacitance of multilayers made from strongly correlated materials. <i>Physical Review B</i> , 2012 , 85,	3.3	10
151	Intrinsic phonon effects on analog quantum simulators with ultracold trapped ions. <i>Physical Review A</i> , 2012 , 86,	2.6	20
150	Exact solution of a variety of X-ray probes in the Falicov-Kimball model with dynamical mean-field theory. <i>Condensed Matter Physics</i> , 2012 , 15, 43701	1.3	3
149	Onset of a quantum phase transition with a trapped ion quantum simulator. <i>Nature Communications</i> , 2011 , 2, 377	17.4	270
148	Lanczos-based Low-Rank Correction Method for Solving the Dyson Equation in Inhomogeneous Dynamical Mean-Field Theory. <i>Physics Procedia</i> , 2011 , 15, 22-28		1
147	Quantum simulation of the transverse Ising model with trapped ions. <i>New Journal of Physics</i> , 2011 , 13, 105003	2.9	66
146	Temporal response of nonequilibrium correlated electrons. <i>Computer Physics Communications</i> , 2011 , 182, 109-111	4.2	4
145	Effect of vertex corrections on longitudinal transport through multilayered nanostructures: Dynamical mean-field theory approach applied to the inhomogeneous Falicov-Kimball model. <i>Physical Review B</i> , 2011 , 83,	3.3	5
144	Momentum distribution and ordering in mixtures of ultracold light- and heavy-fermion atoms. <i>Physical Review A</i> , 2011 , 83,	2.6	5

143	Efficiency for preforming molecules from mixtures of light Fermi and heavy Bose atoms in optical lattices: The strong-coupling-expansion method. <i>Physical Review A</i> , 2011 , 83,	2.6	3
142	Density-wave patterns for fermionic dipolar molecules on a square optical lattice: Mean-field-theory analysis. <i>Physical Review A</i> , 2011 , 83,	2.6	26
141	Quantum simulation of frustrated Ising spins with trapped ions. <i>Nature</i> , 2010 , 465, 590-3	50.4	543
140	Time-resolved photoemission of correlated electrons driven out of equilibrium. <i>Physical Review B</i> , 2010 , 81,	3.3	30
139	Improving the efficiency of ultracold dipolar molecule formation by first loading onto an optical lattice. <i>Physical Review A</i> , 2010 , 81,	2.6	23
138	Efficiently Generalizing Ultra-Cold Atomic Simulations via Inhomogeneous Dynamical Mean-Field Theory from Two- to Three-Dimensions 2010 ,		1
137	Quantum simulation and phase diagram of the transverse-field Ising model with three atomic spins. <i>Physical Review B</i> , 2010 , 82,	3.3	73
136	Low-temperature transport properties of TaN thin films (0.72 \times 0.83). <i>Journal Physics D: Applied Physics</i> , 2010 , 43, 445405	3	3
135	Resonant Raman scattering effects in a nesting-driven charge-density-wave insulator: Exact analysis of the spinless Falicov-Kimball model with dynamical mean-field theory. <i>Physical Review B</i> , 2010 , 82,	3.3	1
134	Impurity problems for steady-state nonequilibrium dynamical mean-field theory. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 520-524	3	1
133	Inhomogeneous spectral moment sum rules for the retarded Green function and self-energy of strongly correlated electrons or ultracold fermionic atoms in optical lattices. <i>Physical Review B</i> , 2009 , 80,	3.3	11
132	Strong-coupling perturbation theory for the extended Bose-Hubbard model. <i>Physical Review A</i> , 2009 , 79,	2.6	25
131	Theoretical description of time-resolved photoemission spectroscopy: application to pump-probe experiments. <i>Physical Review Letters</i> , 2009 , 102, 136401	7.4	153
130	Appearance of "fragile" Fermi liquids in finite-width Mott insulators sandwiched between metallic leads. <i>Physical Review Letters</i> , 2009 , 103, 116402	7.4	31
129	Nonresonant Raman and inelastic x-ray scattering in the charge-density-wave phase of the spinless Falicov-Kimball model. <i>Physical Review B</i> , 2009 , 79,	3.3	2
128	Momentum distribution of the insulating phases of the extended Bose-Hubbard model. <i>Physical Review A</i> , 2009 , 80,	2.6	10
127	Dynamical mean-field theory for light-fermion-heavy-boson mixtures on optical lattices. <i>Physical Review A</i> , 2009 , 80,	2.6	17
126	Theoretical description of time-resolved pump/probe photoemission in TaS ₂ : a single-band DFT+DMFT(NRG) study within the quasiequilibrium approximation. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 948-954	1.3	23

125	Strong-coupling expansion for the momentum distribution of the Bose-Hubbard model with benchmarking against exact numerical results. <i>Physical Review A</i> , 2009 , 79,	2.6	66
124	Optimizing Pre-formed Molecules in Mixtures of Ultracold 40K and 87Rb on an Optical Lattice: A Challenge Grant and Capabilities Application Project 2009 ,		2
123	Optical and dc-transport properties of a strongly correlated charge-density-wave system: Exact solution in the ordered phase of the spinless Falicov-Kimball model with dynamical mean-field theory. <i>Physical Review B</i> , 2008 , 77,	3.3	25
122	Nonequilibrium sum rules for the retarded self-energy of strongly correlated electrons. <i>Physical Review B</i> , 2008 , 77,	3.3	21
121	Quenching Bloch oscillations in a strongly correlated material: Nonequilibrium dynamical mean-field theory. <i>Physical Review B</i> , 2008 , 77,	3.3	96
120	Steady-state nonequilibrium density of States of driven strongly correlated lattice models in infinite dimensions. <i>Physical Review Letters</i> , 2008 , 101, 196401	7.4	59
119	Enhancement of thermal transport in the degenerate periodic Anderson model. <i>Physical Review B</i> , 2008 , 78,	3.3	11
118	Effect of anisotropic hopping on the Bose-Hubbard model phase diagram: Strong-coupling perturbation theory on a square lattice. <i>Physical Review A</i> , 2008 , 78,	2.6	4
117	Pattern Formation in mixtures of ultracold atoms in optical lattices. <i>Physical Review Letters</i> , 2008 , 101, 060404	7.4	21
116	F-electron spectral function of the Falicov-Kimball model and the Wiener-Hopf sum equation approach. <i>Condensed Matter Physics</i> , 2008 , 11, 425	1.3	4
115	Nonequilibrium Density Of States And Distribution Functions For Strongly Correlated Materials Across The Mott Transition. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2008 , 219-236	0.2	2
114	Relationship between the thermopower and entropy of strongly correlated electron systems. <i>Physical Review B</i> , 2007 , 76,	3.3	53
113	Enhancement of thermoelectric performance in strongly correlated multilayered nanostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2007 , 244, 2351-2356	1.3	4
112	Electronic thermal transport in strongly correlated multilayered nanostructures. <i>Physical Review B</i> , 2007 , 75,	3.3	19
111	Electronic charge reconstruction of doped Mott insulators in multilayered nanostructures. <i>Physical Review B</i> , 2007 , 75,	3.3	16
110	Nonequilibrium perturbation theory of the spinless Falicov-Kimball model: Second-order truncated expansion in U. <i>Physical Review B</i> , 2007 , 75,	3.3	17
109	Nonequilibrium dynamical mean-field theory of strongly correlated electrons 2007 , 187-210		6
108	Thermoelectricity of intermetallics. <i>Physica B: Condensed Matter</i> , 2006 , 378-380, 661-662	2.8	6

107	Thouless energy as a unifying concept for Josephson junctions tuned through the Mott metal-insulator transition. <i>Physical Review B</i> , 2006 , 73,	3.3	3
106	Nonequilibrium dynamical mean-field theory. <i>Physical Review Letters</i> , 2006 , 97, 266408	7.4	220
105	Spectral moment sum rules for strongly correlated electrons in time-dependent electric fields. <i>Physical Review B</i> , 2006 , 73,	3.3	31
104	Steady-state nonequilibrium dynamical mean-field theory and the quantum Boltzmann equation. <i>Journal of Physics: Conference Series</i> , 2006 , 35, 39-52	0.3	3
103	Sum rules for inelastic light scattering in the Hubbard model. <i>Physica B: Condensed Matter</i> , 2006 , 378-380, 650-653	2.8	2
102	Resonant enhancement of electronic Raman scattering. <i>Journal of Physics and Chemistry of Solids</i> , 2006 , 67, 336-339	3.9	1
101	Transport in Multilayered Nanostructures 2006 ,		50
100	Nonlinear Peltier effect and the nonequilibrium Jonson-Mahan theorem. <i>Condensed Matter Physics</i> , 2006 , 9, 603	1.3	4
99	f-Electron spectral function near a quantum critical point. <i>Physica B: Condensed Matter</i> , 2005 , 359-361, 684-686	2.8	
98	Resonant electronic Raman scattering near a quantum critical point. <i>Physica B: Condensed Matter</i> , 2005 , 359-361, 705-707	2.8	1
97	Strongly correlated multilayered nanostructures near the Mott transition. <i>Physica Status Solidi (B): Basic Research</i> , 2005 , 242, 189-195	1.3	1
96	. <i>IEEE Transactions on Applied Superconductivity</i> , 2005 , 15, 896-899	1.8	3
95	Electronic Raman scattering in correlated materials: A treatment of nonresonant, mixed, and resonant scattering using dynamical mean-field theory. <i>Physical Review B</i> , 2005 , 71,	3.3	23
94	F-electron spectral function of the Falicov-Kimball model in infinite dimensions: The half-filled case. <i>Physical Review B</i> , 2005 , 71,	3.3	16
93	Nonlinear response of Bloch electrons in infinite dimensions. <i>Physical Review B</i> , 2005 , 71,	3.3	51
92	Optical sum rules that relate to the potential energy of strongly correlated systems. <i>Physical Review Letters</i> , 2005 , 94, 216401	7.4	16
91	Dynamical mean-field theory for strongly correlated inhomogeneous multilayered nanostructures. <i>Physical Review B</i> , 2004 , 70,	3.3	49
90	Thermal transport in the Falicov-Kimball model on a Bethe lattice. <i>Physical Review B</i> , 2004 , 69,	3.3	21

89	Resonant enhancement of inelastic light scattering in strongly correlated materials. <i>Physical Review Letters</i> , 2004 , 93, 137402	7.4	13
88	Effect of particle-hole asymmetry on the Mott-Hubbard metal-insulator transition. <i>Physical Review Letters</i> , 2004 , 92, 216401	7.4	8
87	Crossover from tunneling to incoherent (bulk) transport in a correlated nanostructure. <i>Applied Physics Letters</i> , 2004 , 84, 1383-1385	3.4	8
86	Charge Stripes Due to Electron Correlations in the Two-Dimensional Spinless Falicov-Kimball Model. <i>Journal of Statistical Physics</i> , 2004 , 116, 699-718	1.5	23
85	Phase Separation due to Quantum Mechanical Correlations 2004 , 119-122		
84	Application of the multicomponent Falicov-Kimball model to intermediate-valence materials: YbInCu ₄ and EuNi ₂ (Si _{1-x} Gex) ₂ . <i>Physica Status Solidi (B): Basic Research</i> , 2003 , 236, 265-271	1.3	6
83	Charge-density-wave order parameter of the Falicov-Kimball model in infinite dimensions. <i>Physical Review B</i> , 2003 , 68,	3.3	24
82	Exact dynamical mean-field theory of the Falicov-Kimball model. <i>Reviews of Modern Physics</i> , 2003 , 75, 1333-1382	40.5	267
81	Superconductor-correlated metal-superconductor Josephson junctions: an optimized class for high speed digital electronics. <i>IEEE Transactions on Applied Superconductivity</i> , 2003 , 13, 1089-1092	1.8	13
80	Equivalence of the Falicov-Kimball and Brandt-Mielsch forms for the free energy of the infinite-dimensional Falicov-Kimball model. <i>Physical Review B</i> , 2003 , 67,	3.3	9
79	Optimizing thermal transport in the Falicov-Kimball model: The binary-alloy picture. <i>Physical Review B</i> , 2003 , 68,	3.3	20
78	Temperature dependence of superconductor-correlated metal-superconductor Josephson junctions. <i>Applied Physics Letters</i> , 2003 , 82, 970-972	3.4	3
77	Inelastic x-ray scattering as a probe of electronic correlations. <i>Physical Review B</i> , 2003 , 68,	3.3	10
76	Inelastic x-ray scattering in correlated Mott insulators. <i>Physical Review Letters</i> , 2003 , 90, 067402	7.4	15
75	Nonresonant inelastic light scattering in the Hubbard model. <i>Physical Review B</i> , 2003 , 67,	3.3	21
74	Inelastic Light Scattering and the Correlated Metal-Insulator Transition 2003 , 115-122		
73	Describing the Valence-Change Transition by the DMFT Solution of the Falicov-Kimball Model 2003 , 287-296		
72	Segregation in the Falicov-Kimball Model. <i>Communications in Mathematical Physics</i> , 2002 , 227, 243-279	2	35

71	Observation of an unconventional metal-insulator transition in overdoped CuO ₂ compounds. <i>Physical Review Letters</i> , 2002 , 89, 107003	7-4	54
70	Suppression of the "Quasiclassical" proximity gap in correlated-metal--superconductor structures. <i>Physical Review Letters</i> , 2002 , 88, 077002	7-4	6
69	Stripe phases in the two-dimensional Falicov-Kimball model. <i>Physical Review Letters</i> , 2002 , 89, 196403	7-4	56
68	Phase separation due to quantum mechanical correlations. <i>Physical Review Letters</i> , 2002 , 88, 106401	7-4	53
67	Phase separation in the combined Falicov-Kimball and static Holstein model. <i>Physical Review B</i> , 2002 , 66,	3-3	4
66	Nonconstant electronic density of states tunneling inversion for A15 superconductors: Nb ₃ Sn. <i>Physical Review B</i> , 2002 , 65,	3-3	15
65	Equilibrium properties of double-screened dipole-barrier SINIS Josephson junctions. <i>Physical Review B</i> , 2002 , 65,	3-3	20
64	OPTIMIZING THE SPEED OF A JOSEPHSON JUNCTION WITH DYNAMICAL MEAN FIELD THEORY. <i>International Journal of Modern Physics B</i> , 2002 , 16, 531-561	1-1	17
63	Exact solution of the multicomponent Falicov-Kimball model in infinite dimensions. <i>The Philosophical Magazine: Physics of Condensed Matter B, Statistical Mechanics, Electronic, Optical and Magnetic Properties</i> , 2001 , 81, 1443-1467		40
62	Microscopic self-consistent theory of Josephson junctions including dynamical electron correlations. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 3187-3213	1-8	20
61	Raman scattering through a metal-insulator transition. <i>Physical Review B</i> , 2001 , 64,	3-3	44
60	Comparison of structural transformations and superconductivity in compressed sulfur and selenium. <i>Physical Review B</i> , 2001 , 63,	3-3	17
59	Tuning a Josephson junction through a quantum critical point. <i>Physical Review B</i> , 2001 , 64,	3-3	25
58	Gap ratio in anharmonic charge-density-wave systems. <i>Physical Review B</i> , 2001 , 64,	3-3	8
57	Exact theory for electronic Raman scattering of correlated materials in infinite dimensions. <i>Physical Review B</i> , 2001 , 64,	3-3	28
56	Intrinsic reduction of Josephson critical current in short ballistic SNS weak links. <i>Physical Review B</i> , 2001 , 64,	3-3	12
55	Dynamical mean-field theory of an Ising double-exchange model with diagonal disorder. <i>Physical Review B</i> , 2001 , 64,	3-3	25
54	Thermal transport in the Falicov-Kimball model. <i>Physical Review B</i> , 2001 , 64,	3-3	17

53	Higher period ordered phases on the Bethe lattice. <i>Physical Review B</i> , 2001 , 63,	3-3	11
52	NON-RESONANT RAMAN SCATTERING THROUGH A METAL-INSULATOR TRANSITION: AN EXACT ANALYSIS OF THE FALICOV-KIMBALL MODEL. <i>Condensed Matter Physics</i> , 2001 , 4, 149	1-3	10
51	Theory of Valence Transitions in Ytterbium-Based Compounds 2001 , 371-380		1
50	First-principles determination of superconducting properties of metals. <i>Physica B: Condensed Matter</i> , 2000 , 284-288, 425-426	2-8	4
49	Approximate scaling relation for the anharmonic electron-phonon problem. <i>Physical Review B</i> , 2000 , 61, R838-R841	3-3	15
48	Competition between phase separation and "Classical" intermediate valence in an exactly solved model. <i>Physical Review Letters</i> , 2000 , 84, 2461-4	7-4	10
47	Dynamical charge susceptibility of the spinless Falicov-Kimball model. <i>Physical Review B</i> , 2000 , 62, 10022-10032	3-3	22
46	Segregation and charge-density-wave order in the spinless Falicov-Kimball model. <i>Physical Review B</i> , 2000 , 61, 13438-13444	3-3	23
45	Phase separation and the segregation principle in the infinite-U spinless Falicov-Kimball model. <i>Physical Review B</i> , 1999 , 60, 1617-1626	3-3	38
44	Strong-coupling perturbation theory for the two-dimensional Bose-Hubbard model in a magnetic field. <i>Physical Review B</i> , 1999 , 60, 2357-2362	3-3	42
43	Evidence for exhaustion in the conductivity of the infinite-dimensional periodic Anderson model. <i>Physical Review B</i> , 1999 , 60, 10782-10787	3-3	24
42	Structural phase stability and electron-phonon coupling in lithium. <i>Physical Review B</i> , 1999 , 59, 4028-4035	3-3	38
41	Anomalous magnetic response of the spin-one-half Falicov-Kimball model. <i>Physical Review B</i> , 1998 , 58, 322-329	3-3	44
40	Low-Temperature Coherence in the Periodic Anderson Model: Predictions for Photoemission of Heavy Fermions. <i>Physical Review Letters</i> , 1998 , 80, 5168-5171	7-4	85
39	Reevaluating electron-phonon coupling strengths: Indium as a test case for ab initio and many-body theory methods. <i>Physical Review B</i> , 1998 , 58, 14511-14517	3-3	11
38	Possible experimentally observable effects of vertex corrections in superconductors. <i>Physical Review B</i> , 1998 , 58, 14498-14510	3-3	16
37	Charge-transfer metal-insulator transitions in the spin-1/2 Falicov-Kimball model. <i>Physical Review B</i> , 1998 , 57, 11955-11961	3-3	32
36	Vertex-corrected perturbation theory for the electron-phonon problem with nonconstant density of states. <i>Physical Review B</i> , 1998 , 58, 11613-11623	3-3	10

35	The Anharmonic Electron-Phonon Problem [Phys. Rev. Lett. 77, 4588 (1996)]. <i>Physical Review Letters</i> , 1997 , 79, 1783-1783	7.4	3
34	Protracted screening in the periodic Anderson model. <i>Physical Review B</i> , 1997 , 55, R3332-R3335	3.3	90
33	Vertex-corrected tunneling inversion in electron-phonon mediated superconductors: Pb. <i>Physical Review B</i> , 1997 , 55, 11651-11658	3.3	10
32	Magnetic phase diagram of the Hubbard model in three dimensions: The second-order local approximation. <i>Physical Review B</i> , 1997 , 55, 942-946	3.3	28
31	Strong-coupling expansions for the pure and disordered Bose-Hubbard model. <i>Physical Review B</i> , 1996 , 53, 2691-2700	3.3	294
30	Vertex-corrected tunneling inversion in superconductors. <i>European Physical Journal D</i> , 1996 , 46, 603-604		
29	Strong-coupling expansions for the anharmonic Holstein model and for the Holstein-Hubbard model. <i>Physical Review B</i> , 1996 , 54, 9372-9384	3.3	17
28	Phase separation in the binary-alloy problem: The one-dimensional spinless Falicov-Kimball model. <i>Physical Review B</i> , 1996 , 53, 16189-16196	3.3	14
27	The Anharmonic Electron-Phonon Problem. <i>Physical Review Letters</i> , 1996 , 77, 4588-4591	7.4	42
26	Ground state of a general electron-phonon Hamiltonian is a spin singlet. <i>Physical Review B</i> , 1995 , 51, 2812-2821	3.3	32
25	Optical conductivity of the infinite-dimensional Hubbard model. <i>Physical Review B</i> , 1995 , 51, 11704-11713	3.3	52
24	Anomalous normal-state properties of high-T _c superconductors: intrinsic properties of strongly correlated electron systems?. <i>Advances in Physics</i> , 1995 , 44, 187-210	18.4	392
23	Magnetic phase diagram of the Hubbard model. <i>Physical Review Letters</i> , 1995 , 74, 186-189	7.4	52
22	Competition between electron-phonon attraction and weak Coulomb repulsion. <i>Physical Review Letters</i> , 1995 , 75, 2570-2573	7.4	57
21	Conserving approximations for the attractive Holstein and Hubbard models. <i>Physical Review B</i> , 1994 , 50, 403-417	3.3	57
20	Iterated perturbation theory for the attractive Holstein and Hubbard models. <i>Physical Review B</i> , 1994 , 50, 6939-6953	3.3	43
19	Weak-coupling expansions for the attractive Holstein and Hubbard models. <i>Physical Review B</i> , 1994 , 49, 6368-6371	3.3	17
18	The Electron-Phonon Problem in Infinite Dimensions. <i>Europhysics Letters</i> , 1994 , 25, 37-42	1.6	26

17	Vertex corrections to the theory of superconductivity. <i>Physica C: Superconductivity and Its Applications</i> , 1994 , 235-240, 2379-2380	1.3	6
16	Phase diagram of the Bose-Hubbard Model. <i>Europhysics Letters</i> , 1994 , 26, 545-550	1.6	162
15	Simulation of the Electron-Phonon Interaction in Infinite Dimensions. <i>Springer Proceedings in Physics</i> , 1994 , 99-112	0.2	1
14	Spinless Falicov-Kimball model (annealed binary alloy) from large to small dimensions. <i>Physical Review B</i> , 1993 , 47, 9263-9272	3.3	49
13	Local approximation to the spinless Falicov-Kimball model. <i>Physical Review B</i> , 1993 , 48, 14797-14800	3.3	13
12	Holstein model in infinite dimensions. <i>Physical Review B</i> , 1993 , 48, 6302-6314	3.3	127
11	Strong-coupling expansions for the attractive Holstein and Hubbard models. <i>Physical Review B</i> , 1993 , 48, 3881-3891	3.3	40
10	Electronic Structure of Highly Correlated Systems 1993 , 1-11		
9	Thermodynamic model of the insulator-metal transition in nickel iodide. <i>Physical Review B</i> , 1992 , 45, 1896-1899	3.3	13
8	Heavy-fermion systems in magnetic fields: The metamagnetic transition. <i>Physical Review B</i> , 1992 , 46, 874-879	3.3	7
7	Hidden symmetries of finite-size clusters with periodic boundary conditions. <i>Physical Review B</i> , 1991 , 44, 2895-2904	3.3	5
6	Exact solutions of frustrated ordinary and chiral eight-site Hubbard models. <i>Physical Review B</i> , 1991 , 44, 1458-1474	3.3	14
5	Exact many-body solution of the periodic-cluster t-t'-J model for cubic systems: Ground-state properties. <i>Physical Review B</i> , 1990 , 42, 4960-4978	3.3	19
4	Two-state one-dimensional spinless Fermi gas. <i>Physical Review B</i> , 1990 , 41, 2163-2172	3.3	69
3	Dephasing effects in a two-dimensional magnetic-breakdown linked-orbit network: Magnesium. <i>Physical Review B</i> , 1989 , 39, 5678-5683	3.3	1
2	Conformal deformation by the currents of affine g. <i>Annals of Physics</i> , 1988 , 188, 258-306	2.5	42
1	Determining quantum phase diagrams of topological Kitaev-inspired models on NISQ quantum hardware. <i>Quantum - the Open Journal for Quantum Science</i> , 5, 553		1