

Holger Fehske

List of Publications by Year in descending order

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192
papers

4,689
citations

117625

34
h-index

118850

62
g-index

194
all docs

194
docs citations

194
times ranked

3229
citing authors

#	ARTICLE	IF	CITATIONS
1	The kernel polynomial method. <i>Reviews of Modern Physics</i> , 2006, 78, 275-306.	45.6	756
2	A Unified Sparse Matrix Data Format for Efficient General Sparse Matrix-Vector Multiplication on Modern Processors with Wide SIMD Units. <i>SIAM Journal of Scientific Computing</i> , 2014, 36, C401-C423.	2.8	160
3	Polarons and bipolarons in strongly interacting electron-phonon systems. <i>Physical Review B</i> , 1996, 53, 9666-9675.	3.2	143
4	Polaron band formation in the Holstein model. <i>Physical Review B</i> , 1997, 56, 4513-4517.	3.2	128
5	Route to Chaos in Optomechanics. <i>Physical Review Letters</i> , 2015, 114, 013601.	7.8	104
6	Self-trapping problem of electrons or excitons in one dimension. <i>Physical Review B</i> , 1998, 58, 6208-6218.	3.2	91
7	Crystallization in Two-Component Coulomb Systems. <i>Physical Review Letters</i> , 2005, 95, 235006.	7.8	88
8	Sparse Polynomial Space Approach to Dissipative Quantum Systems: Application to the Sub-Ohmic Spin-Boson Model. <i>Physical Review Letters</i> , 2009, 102, 150601.	7.8	88
9	Hole-polaron formation in the two-dimensional Holsteint-Jmodel: A variational Lanczos study. <i>Physical Review B</i> , 1995, 51, 16582-16593.	3.2	87
10	High-order commutator-free exponential time-propagation of driven quantum systems. <i>Journal of Computational Physics</i> , 2011, 230, 5930-5956.	3.8	82
11	Lattice polaron formation: Effects of nonscreened electron-phonon interaction. <i>Physical Review B</i> , 2000, 61, 8016-8025.	3.2	81
12	Dynamic properties of the one-dimensional Bose-Hubbard model. <i>Europhysics Letters</i> , 2011, 93, 30002.	2.0	79
13	Optical absorption and single-particle excitations in the two-dimensional Holsteint-Jmodel. <i>Physical Review B</i> , 1998, 58, 3663-3676.	3.2	74
14	Metallicity in the half-filled Holstein-Hubbard model. <i>Europhysics Letters</i> , 2008, 84, 57001.	2.0	74
15	Radio-frequency discharges in oxygen: I. Particle-based modelling. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 6583-6592.	2.8	69
16	Mie scattering analog in graphene: Lensing, particle confinement, and depletion of Klein tunneling. <i>Physical Review B</i> , 2013, 87, .	3.2	68
17	Fate of topological-insulator surface states under strong disorder. <i>Physical Review B</i> , 2012, 85, .	3.2	67
18	A Recursive Algebraic Coloring Technique for Hardware-efficient Symmetric Sparse Matrix-vector Multiplication. <i>ACM Transactions on Parallel Computing</i> , 2020, 7, 1-37.	1.4	65

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19	Stripe formation in doped Hubbard ladders. <i>Physical Review B</i> , 2005, 71, .	3.2	62
20	Optimized phonon approach for the diagonalization of electron-phonon problems. <i>Physical Review B</i> , 2000, 62, R747-R750.	3.2	59
21	Distribution of the local density of states as a criterion for Anderson localization: Numerically exact results for various lattices in two and three dimensions. <i>Physical Review B</i> , 2010, 81, .	3.2	59
22	Peierls Dimerization with Nonadiabatic Spin-Phonon Coupling. <i>Physical Review Letters</i> , 1998, 81, 3956-3959.	7.8	58
23	Mie Scattering by a Charged Dielectric Particle. <i>Physical Review Letters</i> , 2012, 109, 243903.	7.8	54
24	Electron surface layer at the interface of a plasma and a dielectric wall. <i>Physical Review B</i> , 2012, 85, .	3.2	49
25	Microscopic modelling of doped manganites. <i>New Journal of Physics</i> , 2004, 6, 158-158.	2.9	48
26	Peierls instability and optical response in the one-dimensional half-filled Holstein model of spinless fermions. <i>Physical Review B</i> , 1998, 58, 13526-13533.	3.2	44
27	Hole dynamics in a strongly correlated two-dimensional spin background. <i>Physical Review B</i> , 1991, 44, 8473-8485.	3.2	43
28	Numerical approaches to time evolution of complex quantum systems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 2182-2188.	2.1	43
29	Condensation of excitons in Cu_2O at ultracold temperatures: experiment and theory. <i>New Journal of Physics</i> , 2012, 14, 105007.	2.9	40
30	Surface States and the Charge of a Dust Particle in a Plasma. <i>Physical Review Letters</i> , 2008, 101, 175002.	7.8	38
31	Competition between excitonic charge and spin density waves: Influence of electron-phonon and Hund's rule couplings. <i>Physical Review B</i> , 2015, 92, .	3.2	38
32	Parallelization strategies for density matrix renormalization group algorithms on shared-memory systems. <i>Journal of Computational Physics</i> , 2004, 194, 795-808.	3.8	37
33	Non-Hermitian Boundary State Engineering in Anomalous Floquet Topological Insulators. <i>Physical Review Letters</i> , 2019, 123, 190403.	7.8	37
34	Quantum lattice fluctuations in a frustrated Heisenberg spin-Peierls chain. <i>Physical Review B</i> , 1999, 60, 6566-6573.	3.2	35
35	Towards an integrated modeling of the plasma-solid interface. <i>Frontiers of Chemical Science and Engineering</i> , 2019, 13, 201-237.	4.4	34
36	Anderson disorder in graphene nanoribbons: A local distribution approach. <i>Physical Review B</i> , 2009, 79, .	3.2	33

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37	Fermionic time-reversal symmetry in a photonic topological insulator. <i>Nature Materials</i> , 2020, 19, 855-860.	27.5	33
38	Luttinger parameters and momentum distribution function for the half-filled spinless fermion Holstein model: A DMRG approach. <i>Europhysics Letters</i> , 2009, 87, 27001.	2.0	30
39	Excitonic resonances in the 2D extended Falicov-Kimball model. <i>Europhysics Letters</i> , 2011, 95, 17006.	2.0	30
40	Phase Diagram of Bilayer Electron-Hole Plasmas. <i>Contributions To Plasma Physics</i> , 2012, 52, 819-826.	1.1	30
41	Resonant charge transfer at dielectric surfaces. <i>European Physical Journal D</i> , 2012, 66, 1.	1.3	30
42	Absorption of an Electron by a Dielectric Wall. <i>Physical Review Letters</i> , 2015, 115, 225001.	7.8	30
43	Metal-to-Insulator Transition and Electron-Hole Puddle Formation in Disordered Graphene Nanoribbons. <i>Physical Review Letters</i> , 2012, 108, 066402.	7.8	29
44	Optical signatures of the charge of a dielectric particle in a plasma. <i>Physical Review E</i> , 2013, 88, 023109.	2.1	29
45	Comparative density-matrix renormalization group study of symmetry-protected topological phases in spin-1 chain and Bose-Hubbard models. <i>Physical Review B</i> , 2015, 91, .	3.2	29
46	Effect of Electron-Phonon Interaction Range for a Half-Filled Band in One Dimension. <i>Physical Review Letters</i> , 2012, 109, 116407.	7.8	28
47	High-performance implementation of Chebyshev filter diagonalization for interior eigenvalue computations. <i>Journal of Computational Physics</i> , 2016, 325, 226-243.	3.8	28
48	Wall Charge and Potential from a Microscopic Point of View. <i>Contributions To Plasma Physics</i> , 2012, 52, 856-863.	1.1	27
49	Nonequilibrium transport through molecular junctions in the quantum regime. <i>Physical Review B</i> , 2011, 84, .	3.2	26
50	Scattering of two-dimensional Dirac fermions on gate-defined oscillating quantum dots. <i>Physical Review B</i> , 2015, 91, .	3.2	26
51	Topological origin of quantized transport in non-Hermitian Floquet chains. <i>Physical Review Research</i> , 2020, 2, .	3.6	26
52	Magnetic order-disorder transition in the two-dimensional spatially anisotropic Heisenberg model at zero temperature. <i>Physical Review B</i> , 1999, 60, 9240-9243.	3.2	24
53	HYBRID-PARALLEL SPARSE MATRIX-VECTOR MULTIPLICATION WITH EXPLICIT COMMUNICATION OVERLAP ON CURRENT MULTICORE-BASED SYSTEMS. <i>Parallel Processing Letters</i> , 2011, 21, 339-358.	0.6	23
54	Numerical time propagation of quantum systems in radiation fields. <i>New Journal of Physics</i> , 2012, 14, 105008.	2.9	23

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55	Physisorption of an electron in deep surface potentials off a dielectric surface. <i>Physical Review B</i> , 2011, 83, .	3.2	22
56	GHOST: Building Blocks for High Performance Sparse Linear Algebra on Heterogeneous Systems. <i>International Journal of Parallel Programming</i> , 2017, 45, 1046-1072.	1.5	22
57	Thermoelectric effects in molecular quantum dots with contacts. <i>Physical Review B</i> , 2014, 89, .	3.2	21
58	Electron Flow in Circular Graphene Quantum Dots. <i>Quantum Matter</i> , 2015, 4, 346-351.	0.2	21
59	Exact diagonalization study of the two-dimensional t - J model with adiabatic Holstein phonons: Single-hole case. <i>Physical Review B</i> , 1993, 47, 12420-12425.	3.2	20
60	The Ordering of Polarons in the Holstein t - J Model: An Application to $\text{La}_{2-x}\text{Sr}_x\text{NiO}_{4+y}$. <i>Europhysics Letters</i> , 1994, 28, 257-262.	2.0	20
61	Electron dynamics in graphene with gate-defined quantum dots. <i>Europhysics Letters</i> , 2013, 104, 47010.	2.0	20
62	Increasing the Performance of the Jacobi–Davidson Method by Blocking. <i>SIAM Journal of Scientific Computing</i> , 2015, 37, C697-C722.	2.8	20
63	Topological invariants for Floquet-Bloch systems with chiral, time-reversal, or particle-hole symmetry. <i>Physical Review B</i> , 2018, 97, .	3.2	20
64	Phonon spectral function of the Holstein polaron. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 7299-7312.	1.8	19
65	Functionalizing graphene by embedded boron clusters. <i>Nanotechnology</i> , 2008, 19, 335707.	2.6	19
66	Quantum Phase Transition in a 1D Transport Model with Boson-Affected Hopping: Luttinger Liquid versus Charge-Density-Wave Behavior. <i>Physical Review Letters</i> , 2009, 102, 106404.	7.8	19
67	Phonon affected transport through molecular quantum dots. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 395601.	1.8	19
68	Electron confinement in graphene with gate-defined quantum dots. <i>Physica Status Solidi (B): Basic Research</i> , 2015, 252, 1868-1871.	1.5	18
69	Anyonic Haldane Insulator in One Dimension. <i>Physical Review Letters</i> , 2017, 118, 120401.	7.8	18
70	Localized polarons and doorway vibrons in finite quantum structures. <i>Physical Review B</i> , 2008, 77, .	3.2	17
71	Spectral functions of the spinless Holstein model. <i>Journal of Physics Condensed Matter</i> , 2006, 18, 2453-2472.	1.8	16
72	Exact Treatment of Exciton-Polaron Formation by Diagrammatic Monte Carlo Simulations. <i>Physical Review Letters</i> , 2008, 101, 116403.	7.8	16

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73	Dot-bound and dispersive states in graphene quantum dot superlattices. <i>Physical Review B</i> , 2014, 89, .	3.2	16
74	Kinetic modeling of the electronic response of a dielectric plasma-facing solid. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 294003.	2.8	16
75	Universal driving protocol for symmetry-protected Floquet topological phases. <i>Physical Review B</i> , 2019, 99, .	3.2	16
76	Boron doped graphene nanostructures. <i>Physica Status Solidi (B): Basic Research</i> , 2008, 245, 2077-2081.	1.5	15
77	Symmetry-breaking oscillations in membrane optomechanics. <i>Physical Review A</i> , 2016, 94, .	2.5	15
78	Optical conductivity of polaronic charge carriers. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 236233.	1.8	14
79	Microscopic theory of electron absorption by plasma-facing surfaces. <i>Plasma Physics and Controlled Fusion</i> , 2017, 59, 014011.	2.1	14
80	Finite-temperature dynamic structure factor of the spin-1 XXZ chain with single-ion anisotropy. <i>Physical Review B</i> , 2018, 97, .	3.2	14
81	Ion-induced secondary electron emission from metal surfaces. <i>Plasma Sources Science and Technology</i> , 2018, 27, 084003.	3.1	14
82	Spin transport through a spin- $\frac{1}{2}$ XXZ chain contacted to fermionic leads. <i>Physical Review B</i> , 2018, 97, .	3.2	14
83	Two-dimensional Peierls-Hubbard model within the slave-boson approach. <i>Physical Review B</i> , 1992, 46, 3713-3720.	3.2	13
84	Correlation-Induced Metal Insulator Transition in a Two-Channel Fermion-Boson Model. <i>Physical Review Letters</i> , 2008, 101, 136402.	7.8	13
85	Effects of disorder and contacts on transport through graphene nanoribbons. <i>Physical Review B</i> , 2013, 88, .	3.2	13
86	Ising tricriticality in the extended Hubbard model with bond dimerization. <i>Physical Review B</i> , 2016, 93, .	3.2	13
87	Efficient computation of the W topological invariant and application to Floquet Bloch systems. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2017, 50, 295301.	2.1	13
88	Influence of electron-hole plasma on Rydberg excitons in cuprous oxide. <i>Physical Review B</i> , 2019, 100, .	3.2	13
89	Photoinduced \hat{I} -pairing at finite temperatures. <i>Physical Review Research</i> , 2020, 2, .	3.6	13
90	On the possibility of phase separation in the extended Hubbard model. <i>Solid State Communications</i> , 1990, 76, 1333-1336.	1.9	12

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91	The phase diagram of the 2D Holstein-t-J model near half filling. Journal of Physics Condensed Matter, 1993, 5, 3565-3572.	1.8	12
92	Valley filtering in strain-induced T^3 quantum dots. Physical Review B, 2021, 103, .	3.2	12
93	Comment on "Anderson transition in disordered graphene" by Amini M. et al.. Europhysics Letters, 2010, 90, 17002.	2.0	11
94	Plasma Walls Beyond the Perfect Absorber Approximation for Electrons. IEEE Transactions on Plasma Science, 2011, 39, 644-651.	1.3	11
95	Performance Engineering of the Kernel Polynomial Method on Large-Scale CPU-GPU Systems. , 2015, , .		11
96	Holes in a two-dimensional Hubbard antiferromagnet. Physical Review B, 1991, 43, 6284-6287.	3.2	10
97	Exact-diagonalization study of the t-J model in the low-density limit: Implications for phase separation. Physical Review B, 1993, 48, 9106-9109.	3.2	10
98	Plasma Sheath Structures in Complex Electrode Geometries. Contributions To Plasma Physics, 2012, 52, 827-835.	1.1	10
99	Optomechanical multistability in the quantum regime. Europhysics Letters, 2016, 113, 64002.	2.0	10
100	Topological insulators in random potentials. Physical Review B, 2016, 93, .	3.2	10
101	Chebyshev Filter Diagonalization on Modern Manycore Processors and GPGPUs. Lecture Notes in Computer Science, 2018, , 329-349.	1.3	10
102	Benefits from using mixed precision computations in the ELPA-AEO and ESSEX-II eigensolver projects. Japan Journal of Industrial and Applied Mathematics, 2019, 36, 699-717.	0.9	10
103	Quantum phase transitions in the dimerized extended Bose-Hubbard model. Physical Review A, 2019, 99, .	2.5	10
104	Nonequilibrium dynamics in pumped Mott insulators. Physical Review Research, 2022, 4, .	3.6	10
105	Slave-boson study of the t - t' - J model: Phase diagram, spin susceptibility, and Hall resistivity. Physical Review B, 1994, 50, 17874-17880.	3.2	9
106	Spin-correlation functions and susceptibilities in the easy-plane XXZ chain. Physical Review B, 2000, 62, 12141-12145.	3.2	9
107	Phonon-affected steady-state transport through molecular quantum dots. Physica Scripta, 2012, T151, 014039.	2.5	9
108	Proton Crystallization in a Dense Hydrogen Plasma. Contributions To Plasma Physics, 2012, 52, 224-228.	1.1	9

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109	Electron microphysics at plasma–solid interfaces. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	9
110	Finite-temperature photoemission in the extended Falicov-Kimball model: a case study for Ta_2NiSe_5 . <i>SciPost Physics</i> , 2021, 10, .	4.9	9
111	Exotic criticality in the dimerized spin-1 XXZ chain with single-ion anisotropy. , 2018, 5, .		9
112	Magnetic Phase Diagram and Transport Properties of the t-J Model: A Spin-Rotation-Invariant Slave-Boson Approach. <i>Europhysics Letters</i> , 1994, 26, 109-115.	2.0	7
113	Spin susceptibility and magnetic short-range order in the Hubbard model. <i>Physical Review B</i> , 1996, 54, 7614-7617.	3.2	7
114	Magnon softening and damping in the ferromagnetic manganites due to orbital correlations. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 458-459.	2.3	7
115	Bipolaron formation in 1D–3D quantum dots: a lattice quantum Monte Carlo approach. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 255210.	1.8	7
116	Parallel Sparse Matrix-Vector Multiplication as a Test Case for Hybrid MPI+OpenMP Programming. , 2011, , .		7
117	Improving robustness of the FEAST algorithm and solving eigenvalue problems from graphene nanoribbons. <i>Proceedings in Applied Mathematics and Mechanics</i> , 2014, 14, 821-822.	0.2	7
118	Floquet scattering of light and sound in Dirac optomechanics. <i>Physical Review A</i> , 2018, 98, .	2.5	7
119	Photoinduced $\langle i \rangle \langle i \rangle$ -pairing in One-dimensional Mott Insulators. , 2020, , .		7
120	Hall resistivity of hole- and electron-doped high-Tc cuprates. <i>Solid State Communications</i> , 1995, 93, 41-44.	1.9	6
121	Coulomb crystal and quantum melting in electron–hole plasmas of semiconductors under high pressure. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 474-479.	1.5	6
122	Nonequilibrium quantum fluctuation relations for harmonic systems in nonthermal environments. <i>New Journal of Physics</i> , 2013, 15, 105008.	2.9	6
123	Multicomponent exciton gas in cuprous oxide: cooling behaviour and the role of Auger decay. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 204001.	1.5	6
124	Kinetic modeling of the electric double layer at a dielectric plasma-solid interface. <i>Physical Review E</i> , 2020, 102, 023206.	2.1	6
125	Quantum many-body effects on Rydberg excitons in cuprous oxide. <i>European Physical Journal: Special Topics</i> , 2021, 230, 947-950.	2.6	6
126	ESSEX: Equipping Sparse Solvers for Exascale. <i>Lecture Notes in Computer Science</i> , 2014, , 577-588.	1.3	6

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127	Effects of Fermi surface anisotropy and topology on the spin susceptibility of metals. Journal of Physics F: Metal Physics, 1987, 17, 2109-2121.	1.6	5
128	Fermi-surface geometry and pressure effects on the spin-fluctuation contributions to the specific heat: Anisotropic spin-fluctuation model for heavy-fermion UPt ₃ . Physical Review B, 1989, 39, 2106-2116.	3.2	5
129	Lattice exciton-polaron problem by quantum Monte Carlo simulations. Physical Review B, 2007, 76, .	3.2	5
130	The spin-Peierls chain revisited. Journal of Magnetism and Magnetic Materials, 2007, 310, 1380-1382.	2.3	5
131	COMPARATIVE STUDY OF SEMICLASSICAL APPROACHES TO QUANTUM DYNAMICS. International Journal of Modern Physics C, 2009, 20, 1155-1186.	1.7	5
132	A Greenâ€™s function decoupling scheme for the Edwards fermionâ€“boson model. Journal of Physics Condensed Matter, 2010, 22, 435601.	1.8	5
133	Performance Engineering and Energy Efficiency of Building Blocks for Large, Sparse Eigenvalue Computations on Heterogeneous Supercomputers. Lecture Notes in Computational Science and Engineering, 2016, , 317-338.	0.3	5
134	Charge measurement of SiO ₂ nanoparticles in an rf plasma by ir absorption. Physical Review E, 2021, 104, 045208.	2.1	5
135	On the coexistence of ferro- and antiferromagnetic spin fluctuations and their contributions to the specific heat. Journal of Physics C: Solid State Physics, 1988, 21, 4663-4668.	1.5	4
136	Thermodynamics of the two-dimensional t-J model. Physical Review B, 1992, 45, 13092-13095.	3.2	4
137	Center-of-mass tomographic approach to quantum dynamics. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 5064-5070.	2.1	4
138	Anderson localization versus charge-density-wave formation in disordered electron systems. Physical Review B, 2013, 87, .	3.2	4
139	Light-sound interconversion in optomechanical Dirac materials. Scientific Reports, 2017, 7, 9811.	3.3	4
140	Measuring the plasma-wall charge by infrared spectroscopy. Europhysics Letters, 2018, 124, 25001.	2.0	4
141	Driving XXZ spin chains: Magnetic-field and boundary effects. Europhysics Letters, 2019, 125, 17001.	2.0	4
142	Cutting off the non-Hermitian boundary from an anomalous Floquet topological insulator. Europhysics Letters, 2020, 131, 30007.	2.0	4
143	Scrutinizing the Debye plasma model: Rydberg excitons unravel the properties of low-density plasmas in semiconductors. Physical Review B, 2022, 105, .	3.2	4
144	Invariant embedding approach to secondary electron emission from metals. Journal of Applied Physics, 2022, 131, .	2.5	4

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145	Photoinduced metallization of excitonic insulators. <i>Physical Review B</i> , 2022, 105, .	3.2	4
146	Spin Fluctuations in Alloys with Random Transfer. <i>Physica Status Solidi (B): Basic Research</i> , 1983, 120, 611-620.	1.5	3
147	Theory of Magnetic Short-Range Order for Itinerant Electron Systems. <i>International Journal of Modern Physics B</i> , 1997, 11, 1337-1361.	2.0	3
148	Quantum to classical crossover in the 2D easy-plane XXZ model. <i>Brazilian Journal of Physics</i> , 2000, 30, 720.	1.4	3
149	Carrier-density effects in many-polaron systems. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 255202.	1.8	3
150	On the possibility of excitonic phases at the semiconductor–semimetal transition. <i>Superlattices and Microstructures</i> , 2008, 43, 512-517.	3.1	3
151	Ordered structure formation in 2D mass asymmetric electron–hole plasmas. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008, 372, 5208-5214.	2.1	3
152	Critical behavior of the extended Hubbard model with bond dimerization. <i>Physica B: Condensed Matter</i> , 2018, 536, 474-478.	2.7	3
153	Electronic properties of $\hat{\mu} \hat{\nu} \hat{\rho}$ quantum dots in magnetic fields. <i>European Physical Journal B</i> , 2020, 93, 1.	1.5	3
154	Block-Lanczos Density-Matrix Renormalization-Group Approach to Spin Transport in Heisenberg Chains Coupled to Leads. <i>Journal of the Physical Society of Japan</i> , 2020, 89, 044601.	1.6	3
155	Controlling the direction of topological transport in a non-Hermitian time-reversal symmetric Floquet ladder. <i>APL Photonics</i> , 2021, 6, 010801.	5.7	3
156	Generation of Current Vortex by Spin Current in Rashba Systems. <i>Physical Review Letters</i> , 2021, 126, 157202.	7.8	3
157	Spin–charge conversion and current vortex in spin–orbit coupled systems. <i>APL Materials</i> , 2021, 9, .	5.1	3
158	CPA Study of the Electrical Conductivity for Various Percolation Models. <i>Physica Status Solidi (B): Basic Research</i> , 1982, 109, 551-561.	1.5	2
159	On the validity of the static approximation in the spin-fluctuation theory for itinerant electrons. <i>Journal of Physics C: Solid State Physics</i> , 1984, 17, 5031-5038.	1.5	2
160	Flatness in the wave-vector-dependent response function of metals with a corrugated cylindrical Fermi surface: consequences for the paramagnon mass enhancement. <i>Journal of Physics F: Metal Physics</i> , 1988, 18, 33-41.	1.6	2
161	Magnetism and transport in the t - t' - J model. <i>Journal of Low Temperature Physics</i> , 1995, 99, 425-427.	1.4	2
162	Interplay of charge and spin correlations in nickel perovskites. <i>European Physical Journal D</i> , 1996, 46, 1879-1880.	0.4	2

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163	Effective one-band electron-phonon Hamiltonian for nickel perovskites. <i>Physical Review B</i> , 1997, 56, 3544-3547.	3.2	2
164	Electron transport in the Anderson model. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 63-66.	0.8	2
165	Hole-doped Hubbard ladders. <i>Physica B: Condensed Matter</i> , 2006, 378-380, 319-320.	2.7	2
166	Generation, dynamical buildup and detection of bi- and multipartite entangled states in cavity systems. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2017, 50, 224002.	1.5	2
167	Heating and thermoelectric transport in a molecular junction. <i>European Physical Journal B</i> , 2017, 90, 1.	1.5	2
168	Transport and Quantum Coherence in Graphene Rings: AharonovâBohm Oscillations, Klein Tunneling, and Particle Localization. <i>Journal of Low Temperature Physics</i> , 2018, 191, 259-271.	1.4	2
169	Time-periodic Klein tunneling through optomechanical Dirac barriers. <i>European Physical Journal: Special Topics</i> , 2019, 227, 1995-2000.	2.6	2
170	A domain-specific language and matrix-free stencil code for investigating electronic properties of Dirac and topological materials. <i>International Journal of High Performance Computing Applications</i> , 2021, 35, 60-77.	3.7	2
171	Quantum criticality in dimerised anisotropic spin-1 chains. <i>European Physical Journal: Special Topics</i> , 2021, 230, 1009-1012.	2.6	2
172	Resonant scattering of Dirac quasiparticles on oscillating quantum dots. <i>European Physical Journal B</i> , 2020, 93, 1.	1.5	2
173	On a Simple Functional Moment Approach to Itinerant Magnetism â Application to Ni. <i>Physica Status Solidi (B): Basic Research</i> , 1985, 130, K121.	1.5	1
174	Structures of quantum 2D electronâhole plasmas. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 214014.	2.1	1
175	Non-equilibrium current and electron pumping in nanostructures. <i>Journal of Physics: Conference Series</i> , 2010, 200, 012005.	0.4	1
176	Excitonic BCS-BEC Crossover in Double-Layer Systems. , 2014, , .		1
177	Theory of zeroâphonon decay luminescence of semiconductor excitons. <i>Fortschritte Der Physik</i> , 2017, 65, 1600068.	4.4	1
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