

# Susan Coppersmith

## List of Publications by Year in descending order

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210  
papers

11,645  
citations

25034

57  
h-index

30922

102  
g-index

215  
all docs

215  
docs citations

215  
times ranked

6988  
citing authors

#	ARTICLE	IF	CITATIONS
1	How Valley-Orbit States in Silicon Quantum Dots Probe Quantum Well Interfaces. Physical Review Letters, 2022, 128, 146802.	7.8	15
2	Collective neutrino oscillations with tensor networks using a time-dependent variational principle. Physical Review D, 2022, 105, .	4.7	16
3	Charge-Noise Resilience of Two-Electron Quantum Dots in $\langle \text{Si} \rangle \langle \text{SiGe} \rangle$ Heterostructures. Physical Review Letters, 2022, 128, .	7.8	41
4	Pauli Blockade in Silicon Quantum Dots with Spin-Orbit Control. PRX Quantum, 2021, 2, .	9.2	36
5	Charge qubit in a triple quantum dot with tunable coherence. Physical Review Research, 2021, 3, .	3.6	9
6	Theory of hole-spin qubits in strained germanium quantum dots. Physical Review B, 2021, 103, .	3.2	50
7	Quantum stochastic resonance of individual Fe atoms. Science Advances, 2021, 7, .	10.3	8
8	Valley splittings in Si/SiGe quantum dots with a germanium spike in the silicon well. Physical Review B, 2021, 104, .	3.2	20
9	Lipkin model on a quantum computer. Physical Review C, 2021, 104, .	2.9	28
10	Coherent Control and Spectroscopy of a Semiconductor Quantum Dot Wigner Molecule. Physical Review Letters, 2021, 127, 127701.	7.8	23
11	Long-range two-hybrid-qubit gates mediated by a microwave cavity with red sidebands. Physical Review A, 2021, 104, .	2.5	4
12	Strong electron-electron interactions in Si/SiGe quantum dots. Physical Review B, 2021, 104, .	3.2	27
13	Effect of Quantum Hall Edge Strips on Valley Splitting in Silicon Quantum Wells. Physical Review Letters, 2020, 125, 186801.	7.8	10
14	Progress toward a capacitively mediated CNOT between two charge qubits in Si/SiGe. Npj Quantum Information, 2020, 6, .	6.7	15
15	Microwave engineering for semiconductor quantum dots in a cQED architecture. Applied Physics Letters, 2020, 117, .	3.3	8
16	Strong photon coupling to the quadrupole moment of an electron in a solid-state qubit. Nature Physics, 2020, 16, 642-646.	16.7	23
17	Spatial noise correlations in a Si/SiGe two-qubit device from Bell state coherences. Physical Review B, 2020, 101, .	3.2	20
18	The effect of external electric fields on silicon with superconducting gallium nano-precipitates. Journal of Applied Physics, 2020, 127, 215102.	2.5	3

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19	High-fidelity entangling gates for quantum-dot hybrid qubits based on exchange interactions. Physical Review A, 2020, 101, .	2.5	10
20	Majorana bound states in nanowire-superconductor hybrid systems in periodic magnetic fields. Physical Review B, 2020, 101, .	3.2	5
21	Autotuning of Double-Dot Devices <i>In Situ</i> with Machine Learning. Physical Review Applied, 2020, 13, .	3.8	38
22	Lifting of spin blockade by charged impurities in Si-MOS double quantum dot devices. Physical Review B, 2020, 101, .	3.2	3
23	Repetitive Quantum Nondemolition Measurement and Soft Decoding of a Silicon Spin Qubit. Physical Review X, 2020, 10, .	8.9	18
24	Fabrication process and failure analysis for robust quantum dots in silicon. Nanotechnology, 2020, 31, 505001.	2.6	16
25	Virtual-photon-mediated spin-qubit–transmon coupling. Nature Communications, 2019, 10, 5037.	12.8	39
26	Adiabatic two-qubit gates in capacitively coupled quantum dot hybrid qubits. Npj Quantum Information, 2019, 5, .	6.7	20
27	High-fidelity single-qubit gates in a strongly driven quantum-dot hybrid qubit with $1/f$ charge noise. Physical Review A, 2019, 100, .	6.7	39
28	Achieving high-fidelity single-qubit gates in a strongly driven charge qubit with $1/f$ charge noise. Npj Quantum Information, 2019, 5, .	6.7	39
29	Benchmarking Gate Fidelities in a $\text{Si/SiGe}$ Two-Qubit Device. Physical Review X, 2019, 9, .	8.9	18
30	Compressed Optimization of Device Architectures for Semiconductor Quantum Devices. Physical Review Applied, 2019, 11, .	3.8	6
31	Entanglement and collective flavor oscillations in a dense neutrino gas. Physical Review D, 2019, 100, .	4.7	39
32	Measurements of Capacitive Coupling Within a Quadruple-Quantum-Dot Array. Physical Review Applied, 2019, 12, .	3.8	19
33	Enhancing the dipolar coupling of a S-TO qubit with a transverse sweet spot. Nature Communications, 2019, 10, 5641.	12.8	18
34	Measurement-free implementations of small-scale surface codes for quantum-dot qubits. Physical Review A, 2018, 97, .	2.5	5
35	A programmable two-qubit quantum processor in silicon. Nature, 2018, 555, 633-637.	27.8	534
36	Phonon-induced decoherence of a charge quadrupole qubit. New Journal of Physics, 2018, 20, 103048.	2.9	5

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37	Signatures of atomic-scale structure in the energy dispersion and coherence of a Si quantum-dot qubit. <i>Physical Review B</i> , 2018, 98, .	3.2	17
38	The critical role of substrate disorder in valley splitting in Si quantum wells. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	27
39	Valley dependent anisotropic spin splitting in silicon quantum dots. <i>Npj Quantum Information</i> , 2018, 4, .	6.7	49
40	Dressed photon-orbital states in a quantum dot: Intervalley spin resonance. <i>Physical Review B</i> , 2017, 95, .	3.2	23
41	Effects of charge noise on a pulse-gated singlet-triplet $S^z T$ qubit. <i>Physical Review B</i> , 2017, 96, .	3.2	10
42	Extending the coherence of a quantum dot hybrid qubit. <i>Npj Quantum Information</i> , 2017, 3, .	6.7	68
43	Pulse sequences for suppressing leakage in single-qubit gate operations. <i>Physical Review B</i> , 2017, 95, .	3.2	18
44	A decoherence-free subspace in a charge quadrupole qubit. <i>Nature Communications</i> , 2017, 8, 15923.	12.8	45
45	Achieving high-fidelity single-qubit gates in a strongly driven silicon-quantum-dot hybrid qubit. <i>Physical Review A</i> , 2017, 95, .	2.5	22
46	Characterization of a gate-defined double quantum dot in a Si/SiGe nanomembrane. <i>Nanotechnology</i> , 2016, 27, 154002.	2.6	8
47	State-conditional coherent charge qubit oscillations in a Si/SiGe quadruple quantum dot. <i>Npj Quantum Information</i> , 2016, 2, .	6.7	37
48	Violation of Bell's inequality in Si. <i>Nature Nanotechnology</i> , 2016, 11, 216-217.	31.5	1
49	Gate fidelity and coherence of an electron spin in an Si/SiGe quantum dot with micromagnet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 11738-11743.	7.1	119
50	Combining experiment and optical simulation in coherent X-ray nanobeam characterization of Si/SiGe semiconductor heterostructures. <i>Journal of Applied Physics</i> , 2016, 120, 015304.	2.5	8
51	Electrode-stress-induced nanoscale disorder in Si quantum electronic devices. <i>APL Materials</i> , 2016, 4, 066102.	5.1	16
52	Leo P. Kadanoff (1937–2015): An appreciation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 471-472.	7.1	2
53	Characterizing gate operations near the sweet spot of an exchange-only qubit. <i>Physical Review B</i> , 2015, 91, .	3.2	27
54	High-fidelity singlet-triplet $S^z$ in inhomogeneous magnetic fields. <i>Physical Review B</i> , 2015, 92, .	3.2	16

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55	Second-Harmonic Coherent Driving of a Spin Qubit in a Si/SiGe Quantum Dot. <i>Physical Review Letters</i> , 2015, 115, 106802.	7.8	30
56	High-fidelity resonant gating of a silicon-based quantum dot hybrid qubit. <i>Npj Quantum Information</i> , 2015, 1, .	6.7	80
57	Transport through an impurity tunnel coupled to a Si/SiGe quantum dot. <i>Applied Physics Letters</i> , 2015, 107, .	3.3	13
58	Microwave-driven coherent operation of a semiconductor quantum dot charge qubit. <i>Nature Nanotechnology</i> , 2015, 10, 243-247.	31.5	107
59	Identifying single electron charge sensor events using wavelet edge detection. <i>Nanotechnology</i> , 2015, 26, 215201.	2.6	14
60	Electronic Transport Properties of Epitaxial Si/SiGe Heterostructures Grown on Single-Crystal SiGe Nanomembranes. <i>ACS Nano</i> , 2015, 9, 4891-4899.	14.6	10
61	Nanoscale Transforming Mineral Phases in Fresh Nacre. <i>Journal of the American Chemical Society</i> , 2015, 137, 13325-13333.	13.7	138
62	Two-axis control of a singlet-triplet qubit with an integrated micromagnet. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11938-11942.	7.1	147
63	(Invited) Integrating Classical Semiconductor Devices with Si/SiGe Quantum Dots. <i>ECS Transactions</i> , 2014, 64, 915-922.	0.5	0
64	Fast coherent manipulation of three-electron states in a double quantum dot. <i>Nature Communications</i> , 2014, 5, 3020.	12.8	82
65	Electrical control of a long-lived spin qubit in a Si/SiGe quantum dot. <i>Nature Nanotechnology</i> , 2014, 9, 666-670.	31.5	394
66	Quantum control and process tomography of a semiconductor quantum dot hybrid qubit. <i>Nature</i> , 2014, 511, 70-74.	27.8	242
67	Silicon quantum electronics. <i>Reviews of Modern Physics</i> , 2013, 85, 961-1019.	45.6	892
68	Integration of on-chip field-effect transistor switches with dopantless Si/SiGe quantum dots for high-throughput testing. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	28
69	Semiconductor quantum dot qubits. <i>MRS Bulletin</i> , 2013, 38, 794-801.	3.5	17
70	Incommensurate phases of a supported nanoparticle film subjected to uniaxial compression. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 824-831.	7.1	3
71	(Invited) Single-Shot Readout of Singlet-Triplet Qubit States in a Si/SiGe Double Quantum Dot. <i>ECS Transactions</i> , 2013, 50, 655-662.	0.5	0
72	Power-law scaling for the adiabatic algorithm for search-engine ranking. <i>Physical Review A</i> , 2013, 88, .	2.5	2

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73	Disorder-induced valley-orbit hybrid states in Si quantum dots. Physical Review B, 2013, 88, .	3.2	44
74	Coherent quantum oscillations and echo measurements of a Si charge qubit. Physical Review B, 2013, 88, .	3.2	83
75	High-fidelity gates in quantum dot spin qubits. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19695-19700.	7.1	37
76	Comparing Algorithms for Graph Isomorphism Using Discrete- and Continuous-Time Quantum Random Walks. Journal of Computational and Theoretical Nanoscience, 2013, 10, 1653-1661.	0.4	16
77	Noninteracting multiparticle quantum random walks applied to the graph isomorphism problem for strongly regular graphs. Physical Review A, 2012, 86, .	2.5	31
78	Two-electron dephasing in single Si and GaAs quantum dots. Physical Review B, 2012, 86, .	3.2	36
79	Single-Shot Measurement of Triplet-Singlet Relaxation in a $\text{Si/SiGe}$ Double Quantum Dot. Physical Review Letters, 2012, 108, 046808.	7.8	78
80	Single-Shot Measurement of One and Two-Electron Spin States in Si/SiGe Gated Quantum Dots. , 2012, , .		0
81	Pulse-Gated Quantum-Dot Hybrid Qubit. Physical Review Letters, 2012, 109, 250503.	7.8	75
82	Fast Hybrid Silicon Double-Quantum-Dot Qubit. Physical Review Letters, 2012, 108, 140503.	7.8	187
83	Nanoscale Distortions of Si Quantum Wells in Si/SiGe Quantum Electronic Heterostructures. Advanced Materials, 2012, 24, 5217-5221.	21.0	35
84	Distance Dependence of Neuronal Growth on Nanopatterned Gold Surfaces. Langmuir, 2011, 27, 233-239.	3.5	28
85	Tunable singlet-triplet splitting in a few-electron Si/SiGe quantum dot. Applied Physics Letters, 2011, 99, .	3.3	56
86	Tunable Spin Loading and $T < 1 \text{ mK}$ of a Silicon Spin Qubit Measured by Single-Shot Readout. Physical Review Letters, 2011, 106, 156804.	7.8	133
87	Self-Sharpening Mechanism of the Sea Urchin Tooth. Advanced Functional Materials, 2011, 21, 682-690.	14.9	72
88	Cooling of cryogenic electron bilayers via the Coulomb interaction. Physical Review B, 2011, 84, .	3.2	2
89	Unconventional Transport in the $\text{Hole-Regime}$ of a Si Double Quantum Dot. Physical Review Letters, 2011, 106, 186801.	7.8	5
90	Measurement of $c$ -axis angular orientation in calcite ( $\text{CaCO}_3$ ) nanocrystals using X-ray absorption spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 11350-11355.	7.1	75

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91	Single-shot measurement and tunnel-rate spectroscopy of a Si/SiGe few-electron quantum dot. <i>Physical Review B</i> , 2011, 84, .	3.2	19
92	Pauli spin blockade and lifetime-enhanced transport in a Si/SiGe double quantum dot. <i>Physical Review B</i> , 2010, 82, .	3.2	23
93	Two-particle quantum walks applied to the graph isomorphism problem. <i>Physical Review A</i> , 2010, 81, .	2.5	108
94	Theory of valley-orbit coupling in a Si/SiGe quantum dot. <i>Physical Review B</i> , 2010, 81, .	3.2	98
95	Fast tunnel rates in Si/SiGe one-electron single and double quantum dots. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	35
96	(Invited) Toward Si/SiGe Quantum Dot Spin Qubits: Gated Si/SiGe Single and Double Quantum Dots. <i>ECS Transactions</i> , 2010, 33, 639-647.	0.5	0
97	Valley splitting in a Si/SiGe quantum point contact. <i>New Journal of Physics</i> , 2010, 12, 033039.	2.9	9
98	Nacre Protein Fragment Templates Lamellar Aragonite Growth. <i>Journal of the American Chemical Society</i> , 2010, 132, 6329-6334.	13.7	108
99	Theoretical characterization of a model of aragonite crystal orientation in red abalone nacre. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2009, 42, 125101.	2.1	13
100	Controlling Neuronal Growth on Au Surfaces by Directed Assembly of Proteins. <i>Materials Research Society Symposia Proceedings</i> , 2009, 1236, 1.	0.1	1
101	Positioning and guidance of neurons on gold surfaces by directed assembly of proteins using Atomic Force Microscopy. <i>Biomaterials</i> , 2009, 30, 3397-3404.	11.4	45
102	Charge Sensing and Controllable Tunnel Coupling in a Si/SiGe Double Quantum Dot. <i>Nano Letters</i> , 2009, 9, 3234-3238.	9.1	86
103	Mechanism of Calcite Co-Orientation in the Sea Urchin Tooth. <i>Journal of the American Chemical Society</i> , 2009, 131, 18404-18409.	13.7	181
104	Controlling Neuronal Growth on Au Surfaces by Directed Assembly of Extracellular Matrix Proteins. <i>Biophysical Journal</i> , 2009, 96, 395a.	0.5	0
105	Si/SiGe Quantum Devices, Quantum Wells, and Electron-Spin Coherence. <i>Topics in Applied Physics</i> , 2009, , 101-127.	0.8	2
106	Using the Renormalization Group to Classify Boolean Functions. <i>Journal of Statistical Physics</i> , 2008, 130, 1063-1085.	1.2	1
107	Top-gated few-electron double quantum dot in Si/SiGe. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 520-523.	2.7	3
108	Spin blockade and lifetime-enhanced transport in a few-electron Si/SiGe double quantum dot. <i>Nature Physics</i> , 2008, 4, 540-544.	16.7	148

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109	Probing the OrganicâMineral Interface at the Molecular Level in Model Biominerals. <i>Langmuir</i> , 2008, 24, 2680-2687.	3.5	64
110	Gradual Ordering in Red Abalone Nacre. <i>Journal of the American Chemical Society</i> , 2008, 130, 17519-17527.	13.7	126
111	Assignment of Polarization-Dependent Peaks in Carbon K-Edge Spectra from Biogenic and Geologic Aragonite. <i>Journal of Physical Chemistry B</i> , 2008, 112, 13128-13135.	2.6	25
112	Polarization-dependent imaging contrast in abalone shells. <i>Physical Review B</i> , 2008, 77, .	3.2	54
113	Multiscale theory of valley splitting in the conduction band of a quantum well. <i>Physical Review B</i> , 2008, 77, .	3.2	10
114	Renormalization group approach to satisfiability. <i>Europhysics Letters</i> , 2007, 77, 30006.	2.0	1
115	Complexity of the predecessor problem in Kauffman networks. <i>Physical Review E</i> , 2007, 75, 051108.	2.1	7
116	Architecture of Columnar Nacre, and Implications for Its Formation Mechanism. <i>Physical Review Letters</i> , 2007, 98, 268102.	7.8	90
117	Valley splitting theory of SiGeâSiâSiGe quantum wells. <i>Physical Review B</i> , 2007, 75, .	3.2	142
118	Single-electron quantum dot in SiâSiGe with integrated charge sensing. <i>Applied Physics Letters</i> , 2007, 91, .	3.3	72
119	Controllable valley splitting in silicon quantum devices. <i>Nature Physics</i> , 2007, 3, 41-45.	16.7	218
120	XANES in Nanobiology. <i>AIP Conference Proceedings</i> , 2007, , .	0.4	1
121	Electron spin coherence in Si. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 35, 257-263.	2.7	24
122	Quantum dots and etch-induced depletion of a silicon two-dimensional electron gas. <i>Journal of Applied Physics</i> , 2006, 99, 023509.	2.5	13
123	Magnetic field dependence of valley splitting in realistic SiâSiGe quantum wells. <i>Applied Physics Letters</i> , 2006, 89, 202106.	3.3	75
124	Quantum dots in Si/SiGe 2DEGs with Schottky top-gated leads. <i>New Journal of Physics</i> , 2005, 7, 246-246.	2.9	28
125	Spin-based Quantum Dot Quantum Computing in Silicon. , 2005, , 133-146.		1
126	Physically-motivated dynamical algorithms for the graph isomorphism problem. <i>Quantum Information and Computation</i> , 2005, 5, 492-506.	0.3	26



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127	Performance Limitations of Flat-Histogram Methods. <i>Physical Review Letters</i> , 2004, 92, 097201.	7.8	115
128	Quantum properties of a strongly interacting frustrated disordered magnet. <i>Physical Review B</i> , 2004, 69, .	3.2	1
129	Spin-Based Quantum Dot Quantum Computing in Silicon. <i>Quantum Information Processing</i> , 2004, 3, 133-146.	2.2	83
130	One-dimensional quantum walks with absorbing boundaries. <i>Journal of Computer and System Sciences</i> , 2004, 69, 562-592.	1.2	93
131	Coulomb blockade in a silicon/silicon-germanium two-dimensional electron gas quantum dot. <i>Applied Physics Letters</i> , 2004, 84, 4047-4049.	3.3	55
132	A Microfluidic System for Large DNA Molecule Arrays. <i>Analytical Chemistry</i> , 2004, 76, 5293-5301.	6.5	175
133	Valley splitting in low-density quantum-confined heterostructures studied using tight-binding models. <i>Physical Review B</i> , 2004, 70, .	3.2	108
134	Valley splitting in strained silicon quantum wells. <i>Applied Physics Letters</i> , 2004, 84, 115-117.	3.3	142
135	Entangled quantum state of magnetic dipoles. <i>Nature</i> , 2003, 425, 48-51.	27.8	305
136	Spectroscopically Determined Collagen Pyr/deH-DHLNL Cross-Link Ratio and Crystallinity Indices Differ Markedly in Recombinant Congenic Mice with Divergent Calculated Bone Tissue Strength. <i>Connective Tissue Research</i> , 2003, 44, 134-142.	2.3	57
137	Boolean Dynamics with Random Couplings. , 2003, , 23-89.		149
138	Spectroscopically Determined Collagen Pyr/deH-DHLNL Cross-Link Ratio and Crystallinity Indices Differ Markedly in Recombinant Congenic Mice with Divergent Calculated Bone Tissue Strength. <i>Connective Tissue Research</i> , 2003, 44, 134-142.	2.3	7
139	Ground states of two-dimensional $\pm J$ Edwards-Anderson spin glasses. <i>Physical Review B</i> , 2002, 65, .	3.2	31
140	Weak long-ranged Casimir attraction in colloidal crystals. <i>Europhysics Letters</i> , 2002, 57, 451-457.	2.0	10
141	Reversible Boolean networks I: distribution of cycle lengths. <i>Physica D: Nonlinear Phenomena</i> , 2001, 149, 11-29.	2.8	20
142	Reversible Boolean networks. <i>Physica D: Nonlinear Phenomena</i> , 2001, 157, 54-74.	2.8	11
143	Scalar model of inhomogeneous elastic and granular media. <i>Physical Review E</i> , 2000, 62, 5248-5262.	2.1	24
144	A simpler derivation of Feigenbaum's renormalization group equation for the period-doubling bifurcation sequence. <i>American Journal of Physics</i> , 1999, 67, 52-54.	0.7	20

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145	Noise stabilization of self-organized memories. <i>Physical Review E</i> , 1999, 59, 4970-4982.	2.1	16
146	Properties of layer-by-layer vector stochastic models of force fluctuations in granular materials. <i>Physical Review E</i> , 1999, 59, 5870-5880.	2.1	40
147	Analysis of a Population Genetics Model with Mutation, Selection, and Pleiotropy. <i>Journal of Statistical Physics</i> , 1999, 97, 429-457.	1.2	13
148	Chaos, Complexity, and Computers: Object-Oriented Programming and Physics Concepts for Undergraduates. <i>Journal of Statistical Physics</i> , 1998, 93, 1009-1018.	1.2	1
149	Determining pair interactions from structural correlations. <i>Physical Review B</i> , 1998, 58, 14588-14593.	3.2	4
150	Self-Organized Short-Term Memories. <i>Physical Review Letters</i> , 1997, 78, 3983-3986.	7.8	27
151	Vortex telegraph noise in high magnetic fields. <i>Physical Review B</i> , 1997, 56, R11431-R11434.	3.2	7
152	Force fluctuations in granular media. <i>Physica D: Nonlinear Phenomena</i> , 1997, 107, 183-185.	2.8	9
153	Evidence for glass and spin-glass phase transitions from the dynamic susceptibility. <i>Journal of Research of the National Institute of Standards and Technology</i> , 1997, 102, 207.	1.2	10
154	Model for force fluctuations in bead packs. <i>Physical Review E</i> , 1996, 53, 4673-4685.	2.1	393
155	Force Fluctuations in Bead Packs. <i>Science</i> , 1995, 269, 513-515.	12.6	754
156	Quantum stochastic resonance. <i>Physical Review Letters</i> , 1994, 72, 1947-1950.	7.8	124
157	Stochastic resonance: Nonperturbative calculation of power spectra and residence-time distributions. <i>Physical Review E</i> , 1994, 49, 4821-4831.	2.1	58
158	Defect interactions in metallic glasses: Acoustic probes. <i>Physical Review B</i> , 1993, 48, 142-148.	3.2	4
159	Low-temperature acoustic properties of metallic glasses. <i>Physical Review B</i> , 1993, 47, 4922-4936.	3.2	13
160	Charge Density Waves, Phase Slips, and Instabilities. , 1993, , 317-334.		0
161	Thoughts on Using Variational Wavefunctions to Study Hubbard Models. <i>Springer Proceedings in Physics</i> , 1993, , 145-156.	0.2	0
162	Dissipative quantum tunneling of a single microscopic defect in a mesoscopic metal. <i>Physical Review Letters</i> , 1992, 68, 998-1001.	7.8	96

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163	Gravity-induced flow of a structural glass at zero temperature. <i>Journal of Non-Crystalline Solids</i> , 1991, 131-133, 476-478.	3.1	1
164	Nonconvergence of the $t/U$ expansion in the metallic phase of the Hubbard model. <i>Solid State Communications</i> , 1991, 79, 1043-1046.	1.9	2
165	Nonlinear dynamics of sliding charge density waves. <i>Physica D: Nonlinear Phenomena</i> , 1991, 51, 131-137.	2.8	7
166	Diverging strains in the phase-deformation model of sliding charge-density waves. <i>Physical Review B</i> , 1991, 44, 7799-7807.	3.2	49
167	Pinning energies and phase slips in weakly pinned charge-density waves. <i>Physical Review B</i> , 1991, 44, 2887-2894.	3.2	19
168	Variational wave functions and the Mott transition. <i>Physical Review B</i> , 1991, 43, 13770-13773.	3.2	43
169	Frustrated Interactions and Tunneling: Two-Level Systems in Glasses. <i>Physical Review Letters</i> , 1991, 67, 2315-2318.	7.8	72
170	Superconducting states of an extended Hubbard model. <i>Physical Review B</i> , 1990, 42, 2259-2267.	3.2	10
171	Comment on "Experimental evidence for vortex-glass superconductivity in Y-Ba-Cu-O". <i>Physical Review Letters</i> , 1990, 64, 2585-2585.	7.8	90
172	Comparison of mean-field theories of an extended Hubbard model. <i>Physical Review B</i> , 1990, 42, 3966-3970.	3.2	3
173	Interaction and doping dependence of optical spectral weight of the two-dimensional Hubbard model. <i>Physical Review B</i> , 1990, 42, 10807-10810.	3.2	52
174	Normal and antiferromagnetic states of an extended Hubbard model. <i>Physical Review B</i> , 1990, 41, 8711-8722.	3.2	14
175	Perturbative and variational calculations of charge fluctuations of an extended Hubbard model. <i>Physical Review B</i> , 1990, 41, 2646-2649.	3.2	14
176	Phase slips and the instability of the Fukuyama-Lee-Rice model of charge-density waves. <i>Physical Review Letters</i> , 1990, 65, 1044-1047.	7.8	119
177	Phase diagram of the Hubbard model: A variational wave-function approach. <i>Physical Review B</i> , 1989, 39, 11464-11474.	3.2	18
178	Pinning and thermal fluctuations of a flux line in high-temperature superconductors. <i>Physical Review Letters</i> , 1989, 63, 2421-2424.	7.8	121
179	Search for superconductivity in an extended Hubbard model. <i>Physical Review B</i> , 1989, 39, 9671-9674.	3.2	8
180	Effect of thermal fluctuation on magnetic flux depinning and the crossover from flux creep to flux flow. <i>Physica C: Superconductivity and Its Applications</i> , 1989, 162-164, 237-238.	1.2	0

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181	Marginal Stability, Memory and Nonlinear Dynamics of Charge Density Waves. Springer Series in Synergetics, 1989, , 280-287.	0.4	0
182	Overdamped Frenkel-Kontorova model with randomness as a dynamical system. II. Numerical studies of mode locking. Physical Review A, 1988, 38, 375-381.	2.5	15
183	Threshold behavior of a driven incommensurate harmonic chain. Physical Review A, 1988, 38, 6338-6350.	2.5	59
184	Phase organization. Physical Review Letters, 1987, 58, 1161-1164.	7.8	98
185	Pulse-duration memory effect and deformable charge-density waves. Physical Review B, 1987, 36, 311-317.	3.2	85
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