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	Silicon quantum electronics. Reviews of Modern Physics, 2013, 85, 961-1019.	45.6	892
2	Force Fluctuations in Bead Packs. Science, 1995, 269, 513-515.	12.6	754
3	A programmable two-qubit quantum processor in silicon. Nature, 2018, 555, 633-637.	27.8	534
4	Electrical control of a long-lived spin qubit in a Si/SiGe quantum dot. Nature Nanotechnology, 2014, 9, 666-670.	31.5	394
5	Model for force fluctuations in bead packs. Physical Review E, 1996, 53, 4673-4685.	2.1	393
6	Entangled quantum state of magnetic dipoles. Nature, 2003, 425, 48-51.	27.8	305
7	Quantum control and process tomography of a semiconductor quantum dot hybrid qubit. Nature, 2014, 511, 70-74.	27.8	242
8	Dislocations and the commensurate-incommensurate transition in two dimensions. Physical Review B, 1982, 25, 349-363.	3.2	238
9	Controllable valley splitting in silicon quantum devices. Nature Physics, 2007, 3, 41-45.	16.7	218
10	Dislocations and the Commensurate-Incommensurate Transition in Two Dimensions. Physical Review Letters, 1981, 46, 549-552.	7.8	198
11	Fast Hybrid Silicon Double-Quantum-Dot Qubit. Physical Review Letters, 2012, 108, 140503.	7.8	187
12	Mechanism of Calcite Co-Orientation in the Sea Urchin Tooth. Journal of the American Chemical Society, 2009, 131, 18404-18409.	13.7	181
13	A Microfluidic System for Large DNA Molecule Arrays. Analytical Chemistry, 2004, 76, 5293-5301.	6.5	175
14	Boolean Dynamics with Random Couplings. , 2003, , 23-89.		149
15	Spin blockade and lifetime-enhanced transport in a few-electron Si/SiGe double quantum dot. Nature Physics, 2008, 4, 540-544.	16.7	148
16	Two-axis control of a singlet–triplet qubit with an integrated micromagnet. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 11938-11942.	7.1	147
17	Valley splitting in strained silicon quantum wells. Applied Physics Letters, 2004, 84, 115-117.	3.3	142
18	Valley splitting theory of SiGeâ°•Siâ°•SiGequantum wells. Physical Review B, 2007, 75, .	3.2	142

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19	Nanoscale Transforming Mineral Phases in Fresh Nacre. Journal of the American Chemical Society, 2015, 137, 13325-13333.	13.7	138
20	Tunable Spin Loading and mml="http://www.w3.org/1998/Math/MathML" display="inline"> T / mml:mn>1 / mml:msub> mml:math>of a https://mml:math>of a silicon Spin Qubit Measured by Single-Shot Readout. Physical Review Letters, 2011, 106, 156804.	7.8	133
21	Gradual Ordering in Red Abalone Nacre. Journal of the American Chemical Society, 2008, 130, 17519-17527.	13.7	126
22	Quantum stochastic resonance. Physical Review Letters, 1994, 72, 1947-1950.	7.8	124
23	Pinning and thermal fluctuations of a flux line in high-temperature superconductors. Physical Review Letters, 1989, 63, 2421-2424.	7.8	121
24	Phase slips and the instability of the Fukuyama-Lee-Rice model of charge-density waves. Physical Review Letters, 1990, 65, 1044-1047.	7.8	119
25	Gate fidelity and coherence of an electron spin in an Si/SiGe quantum dot with micromagnet. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11738-11743.	7.1	119
26	Performance Limitations of Flat-Histogram Methods. Physical Review Letters, 2004, 92, 097201.	7.8	115
27	Valley splitting in low-density quantum-confined heterostructures studied using tight-binding models. Physical Review B, 2004, 70, .	3.2	108
28	Two-particle quantum walks applied to the graph isomorphism problem. Physical Review A, 2010, 81, .	2.5	108
29	Nacre Protein Fragment Templates Lamellar Aragonite Growth. Journal of the American Chemical Society, 2010, 132, 6329-6334.	13.7	108
30	Microwave-driven coherent operation of a semiconductor quantum dot charge qubit. Nature Nanotechnology, 2015, 10, 243-247.	31.5	107
31	Phase organization. Physical Review Letters, 1987, 58, 1161-1164.	7.8	98
32	Theory of valley-orbit coupling in a Si/SiGe quantum dot. Physical Review B, 2010, 81, .	3.2	98
33	Dissipative quantum tunneling of a single microscopic defect in a mesoscopic metal. Physical Review Letters, 1992, 68, 998-1001.	7.8	96
34	One-dimensional quantum walks with absorbing boundaries. Journal of Computer and System Sciences, 2004, 69, 562-592.	1.2	93
35	Comment on   Experimental evidence for vortex-glass superconductivity in Y-Ba-Cu-O''. Physical Rev Letters, 1990, 64, 2585-2585.	view 7.8	90
36	Architecture of Columnar Nacre, and Implications for Its Formation Mechanism. Physical Review Letters, 2007, 98, 268102.	7.8	90

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37	Charge Sensing and Controllable Tunnel Coupling in a Si/SiGe Double Quantum Dot. Nano Letters, 2009, 9, 3234-3238.	9.1	86
38	Pinning transition of the discrete sine-Gordon equation. Physical Review B, 1983, 28, 2566-2581.	3.2	85
39	Pulse-duration memory effect and deformable charge-density waves. Physical Review B, 1987, 36, 311-317.	3.2	85
40	Benchmarking Gate Fidelities in a <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Si</mml:mi><mml:mo>/</mml:mo><mml:mi>SiGe</mml:mi><td>w>8./mml:</td><td>math></td></mml:mrow></mml:math>	w> 8. /mml:	ma th >
41	Spin-Based Quantum Dot Quantum Computing in Silicon. Quantum Information Processing, 2004, 3, 133-146.	2.2	83
42	Coherent quantum oscillations and echo measurements of a Si charge qubit. Physical Review B, 2013, 88, .	3.2	83
43	Fast coherent manipulation of three-electron states in a double quantum dot. Nature Communications, 2014, 5, 3020.	12.8	82
44	High-fidelity resonant gating of a silicon-based quantum dot hybrid qubit. Npj Quantum Information, 2015, 1 , .	6.7	80
45	Interference Phenomena and Mode Locking in the Model of Deformable Sliding Charge-Density Waves. Physical Review Letters, 1986, 57, 1927-1930.	7.8	79
46	Single-Shot Measurement of Triplet-Singlet Relaxation in a <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Si</mml:mi><mml:mo>/</mml:mo><mml:mi>SiGe</mml:mi></mml:math> Double Quantum Dot. Physical Review Letters, 2012, 108, 046808.	7.8	78
47	Magnetic field dependence of valley splitting in realistic Siâ^•SiGe quantum wells. Applied Physics Letters, 2006, 89, 202106.	3.3	75
48	Measurement of <i>c</i> -axis angular orientation in calcite (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
49	Pulse-Gated Quantum-Dot Hybrid Qubit. Physical Review Letters, 2012, 109, 250503.	7.8	75
50	Frustrated Interactions and Tunneling: Two-Level Systems in Glasses. Physical Review Letters, 1991, 67, 2315-2318.	7.8	72
51	Single-electron quantum dot in Siâ [•] SiGe with integrated charge sensing. Applied Physics Letters, 2007, 91, .	3.3	72
52	Selfâ€Sharpening Mechanism of the Sea Urchin Tooth. Advanced Functional Materials, 2011, 21, 682-690.	14.9	72
53	Extending the coherence of a quantum dot hybrid qubit. Npj Quantum Information, 2017, 3, .	6.7	68
54	High frequency conductivity in silicon inversion layers: Drude relaxation, 2D plasmons and minigaps in a surface superlattice. Surface Science, 1978, 73, 419-433.	1.9	67

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55	Probing the Organicâ-'Mineral Interface at the Molecular Level in Model Biominerals. Langmuir, 2008, 24, 2680-2687.	3.5	64
56	Threshold behavior of a driven incommensurate harmonic chain. Physical Review A, 1988, 38, 6338-6350.	2.5	59
57	Stochastic resonance: Nonperturbative calculation of power spectra and residence-time distributions. Physical Review E, 1994, 49, 4821-4831.	2.1	58
58	Spectroscopically Determined Collagen Pyr/deH-DHLNL Cross-Link Ratio and Crystallinity Indices Differ Markedly in Recombinant Congenic Mice with Divergent Calculated Bone Tissue Strength. Connective Tissue Research, 2003, 44, 134-142.	2.3	57
59	Tunable singlet-triplet splitting in a few-electron Si/SiGe quantum dot. Applied Physics Letters, 2011, 99,	3.3	56
60	Coulomb blockade in a silicon/silicon–germanium two-dimensional electron gas quantum dot. Applied Physics Letters, 2004, 84, 4047-4049.	3.3	55
61	Polarization-dependent imaging contrast in abalone shells. Physical Review B, 2008, 77, .	3.2	54
62	Interaction and doping dependence of optical spectral weight of the two-dimensional Hubbard model. Physical Review B, 1990, 42, 10807-10810.	3.2	52
63	Theory of hole-spin qubits in strained germanium quantum dots. Physical Review B, 2021, 103, .	3.2	50
64	Diverging strains in the phase-deformation model of sliding charge-density waves. Physical Review B, 1991, 44, 7799-7807.	3.2	49
65	Valley dependent anisotropic spin splitting in silicon quantum dots. Npj Quantum Information, 2018, 4,	6.7	49
66	Low-temperature phase of a stacked triangular Ising antiferromagnet. Physical Review B, 1985, 32, 1584-1594.	3.2	47
67	â€~â€~Inductive'' response from nonlinear mixing in sliding charge-density waves. Physical Review B, 1985 4049-4052.	, 31, 3.2	47
68	Positioning and guidance of neurons on gold surfaces by directed assembly of proteins using Atomic Force Microscopy. Biomaterials, 2009, 30, 3397-3404.	11.4	45
69	A decoherence-free subspace in a charge quadrupole qubit. Nature Communications, 2017, 8, 15923.	12.8	45
70	Disorder-induced valley-orbit hybrid states in Si quantum dots. Physical Review B, 2013, 88, .	3.2	44
71	Variational wave functions and the Mott transition. Physical Review B, 1991, 43, 13770-13773.	3.2	43
72	Properties of layer-by-layer vector stochastic models of force fluctuations in granular materials. Physical Review E, 1999, 59, 5870-5880.	2.1	40

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73	Overdamped Frenkel-Kontorova model with randomness as a dynamical system: Mode locking and derivation of discrete maps. Physical Review A, 1987, 36, 3375-3382.	2.5	39
74	Virtual-photon-mediated spin-qubit–transmon coupling. Nature Communications, 2019, 10, 5037.	12.8	39
75	Achieving high-fidelity single-qubit gates in a strongly driven charge qubit with $1/\!\mathrm{f}$ charge noise. Npj Quantum Information, 2019, 5, .	6.7	39
76	Entanglement and collective flavor oscillations in a dense neutrino gas. Physical Review D, 2019, 100, .	4.7	39
77	Autotuning of Double-Dot Devices <i>In Situ</i> with Machine Learning. Physical Review Applied, 2020, 13, .	3.8	38
78	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
79	State-conditional coherent charge qubit oscillations in a Si/SiGe quadruple quantum dot. Npj Quantum Information, 2016, 2, .	6.7	37
80	Two-electron dephasing in single Si and GaAs quantum dots. Physical Review B, 2012, 86, .	3.2	36
81	Pauli Blockade in Silicon Quantum Dots with Spin-Orbit Control. PRX Quantum, 2021, 2, .	9.2	36
82	Fast tunnel rates in Si/SiGe one-electron single and double quantum dots. Applied Physics Letters, 2010, 96, .	3.3	35
83	Nanoscale Distortions of Si Quantum Wells in Si/SiGe Quantumâ€Electronic Heterostructures. Advanced Materials, 2012, 24, 5217-5221.	21.0	35
84	Ground states of two-dimensional±JEdwards-Anderson spin glasses. Physical Review B, 2002, 65, .	3.2	31
85	Noninteracting multiparticle quantum random walks applied to the graph isomorphism problem for strongly regular graphs. Physical Review A, 2012, 86, .	2.5	31
86	Dynamics of an incommensurate harmonic chain. Physical Review B, 1984, 30, 410-412.	3.2	30
87	Second-Harmonic Coherent Driving of a Spin Qubit in a Si/SiGe Quantum Dot. Physical Review Letters, 2015, 115, 106802.	7.8	30
88	Quantum dots in Si/SiGe 2DEGs with Schottky top-gated leads. New Journal of Physics, 2005, 7, 246-246.	2.9	28
89	Distance Dependence of Neuronal Growth on Nanopatterned Gold Surfaces. Langmuir, 2011, 27, 233-239.	3 . 5	28
90	Integration of on-chip field-effect transistor switches with dopantless Si/SiGe quantum dots for high-throughput testing. Applied Physics Letters, 2013, 102, .	3.3	28

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91	Lipkin model on a quantum computer. Physical Review C, 2021, 104, .	2.9	28
92	Self-Organized Short-Term Memories. Physical Review Letters, 1997, 78, 3983-3986.	7.8	27
93	Characterizing gate operations near the sweet spot of an exchange-only qubit. Physical Review B, 2015, 91, .	3.2	27
94	The critical role of substrate disorder in valley splitting in Si quantum wells. Applied Physics Letters, 2018, 112, .	3.3	27
95	Strong electron-electron interactions in Si/SiGe quantum dots. Physical Review B, 2021, 104, .	3.2	27
96	Anderson localization and breakdown of hydrodynamics in random ferromagnets. Physical Review B, 1986, 33, 6541-6544.	3.2	26
97	Physically-motivated dynamical algorithms for the graph isomorphism problem. Quantum Information and Computation, 2005, 5, 492-506.	0.3	26
98	Assignment of Polarization-Dependent Peaks in Carbon K-Edge Spectra from Biogenic and Geologic Aragonite. Journal of Physical Chemistry B, 2008, 112, 13128-13135.	2.6	25
99	Scalar model of inhomogeneous elastic and granular media. Physical Review E, 2000, 62, 5248-5262.	2.1	24
100	Electron spin coherence in Si. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 35, 257-263.	2.7	24
101	Ultrasonic Attenuation in Clean Anisotropic Superconductors. Physical Review Letters, 1986, 56, 1870-1873.	7.8	23
102	Pauli spin blockade and lifetime-enhanced transport in a Si/SiGe double quantum dot. Physical Review B, 2010, 82, .	3.2	23
103	Dressed photon-orbital states in a quantum dot: Intervalley spin resonance. Physical Review B, 2017, 95,	3.2	23
104	Strong photon coupling to the quadrupole moment of an electron in a solid-state qubit. Nature Physics, 2020, 16, 642-646.	16.7	23
105	Coherent Control and Spectroscopy of a Semiconductor Quantum Dot Wigner Molecule. Physical Review Letters, 2021, 127, 127701.	7.8	23
106	Achieving high-fidelity single-qubit gates in a strongly driven silicon-quantum-dot hybrid qubit. Physical Review A, 2017, 95, .	2.5	22
107	A simpler derivation of Feigenbaum's renormalization group equation for the period-doubling bifurcation sequence. American Journal of Physics, 1999, 67, 52-54.	0.7	20
108	Reversible Boolean networks I: distribution of cycle lengths. Physica D: Nonlinear Phenomena, 2001, 149, 11-29.	2.8	20

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109	Adiabatic two-qubit gates in capacitively coupled quantum dot hybrid qubits. Npj Quantum Information, 2019, 5, .	6.7	20
110	Spatial noise correlations in a Si/SiGe two-qubit device from Bell state coherences. Physical Review B, 2020, 101 , .	3.2	20
111	Valley splittings in Si/SiGe quantum dots with a germanium spike in the silicon well. Physical Review B, 2021, 104, .	3.2	20
112	Pinning energies and phase slips in weakly pinned charge-density waves. Physical Review B, 1991, 44, 2887-2894.	3.2	19
113	Single-shot measurement and tunnel-rate spectroscopy of a Si/SiGe few-electron quantum dot. Physical Review B, 2011, 84, .	3.2	19
114	Measurements of Capacitive Coupling Within a Quadruple-Quantum-Dot Array. Physical Review Applied, 2019, 12, .	3.8	19
115	Phase diagram of the Hubbard model: A variational wave-function approach. Physical Review B, 1989, 39, 11464-11474.	3.2	18
116	Pulse sequences for suppressing leakage in single-qubit gate operations. Physical Review B, 2017, 95, .	3.2	18
117	Enhancing the dipolar coupling of a S-T0 qubit with a transverse sweet spot. Nature Communications, 2019, 10, 5641.	12.8	18
118	Repetitive Quantum Nondemolition Measurement and Soft Decoding of a Silicon Spin Qubit. Physical Review X, 2020, 10, .	8.9	18
119	Semiconductor quantum dot qubits. MRS Bulletin, 2013, 38, 794-801.	3.5	17
120	Signatures of atomic-scale structure in the energy dispersion and coherence of a Si quantum-dot qubit. Physical Review B, 2018, 98, .	3.2	17
121	High-fidelity single-qubit gates in a strongly driven quantum-dot hybrid qubit with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>1</mml:mn><mml:mo>/<td>o>2.51ml:n</td><td>nizītz/mml:m</td></mml:mo></mml:mrow></mml:math>	o> 2.5 1ml:n	nizītz/mml:m
122	Shift in the longitudinal sound velocity due to sliding charge-density waves. Physical Review B, 1984, 30, 3566-3568.	3.2	16
123	Noise stabilization of self-organized memories. Physical Review E, 1999, 59, 4970-4982.	2.1	16
124	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
125	High-fidelity singlet-triplet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mtext>â^'<td>:n%t.ext><r< td=""><td>nnា៤msub><</td></r<></td></mml:mtext></mml:mrow></mml:math>	:n %t.e xt> <r< td=""><td>nnា៤msub><</td></r<>	nn ា៤ msub><
126	Electrode-stress-induced nanoscale disorder in Si quantum electronic devices. APL Materials, 2016, 4, 066102.	5.1	16

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127	Fabrication process and failure analysis for robust quantum dots in silicon. Nanotechnology, 2020, 31, 505001.	2.6	16
128	Collective neutrino oscillations with tensor networks using a time-dependent variational principle. Physical Review D, 2022, 105, .	4.7	16
129	Dislocations and the Commensurate-Incommensurate Transition in two Dimensions. Physical Review Letters, 1981, 46, 869-869.	7.8	15
130	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
131	Progress toward a capacitively mediated CNOT between two charge qubits in Si/SiGe. Npj Quantum Information, 2020, 6, .	6.7	15
132	How Valley-Orbit States in Silicon Quantum Dots Probe Quantum Well Interfaces. Physical Review Letters, 2022, 128, 146802.	7.8	15
133	Normal and antiferromagnetic states of an extended Hubbard model. Physical Review B, 1990, 41, 8711-8722.	3.2	14
134	Perturbative and variational calculations of charge fluctuations of an extended Hubbard model. Physical Review B, 1990, 41, 2646-2649.	3.2	14
135	ldentifying single electron charge sensor events using wavelet edge detection. Nanotechnology, 2015, 26, 215201.	2.6	14
136	Studies with mechanism-based inactivators of lysine .epsilontransaminase from Achromobacter liquidum. Biochemistry, 1979, 18, 3917-3920.	2.5	13
137	The instability of long-period commensurate phases in the presence of quenched impurities. Journal of Physics C: Solid State Physics, 1985, 18, 3911-3918.	1.5	13
138	Low-temperature acoustic properties of metallic glasses. Physical Review B, 1993, 47, 4922-4936.	3.2	13
139	Analysis of a Population Genetics Model with Mutation, Selection, and Pleiotropy. Journal of Statistical Physics, 1999, 97, 429-457.	1.2	13
140	Quantum dots and etch-induced depletion of a silicon two-dimensional electron gas. Journal of Applied Physics, 2006, 99, 023509.	2.5	13
141	Theoretical characterization of a model of aragonite crystal orientation in red abalone nacre. Journal of Physics A: Mathematical and Theoretical, 2009, 42, 125101.	2.1	13
142	Transport through an impurity tunnel coupled to a Si/SiGe quantum dot. Applied Physics Letters, 2015, 107, .	3.3	13
143	Response of a purely dissipative incommensurate chain to large driving pulses. Physical Review B, 1986, 34, 2073-2079.	3.2	12
144	A simple illustration of "phase organization― Physics Letters, Section A: General, Atomic and Solid State Physics, 1987, 125, 473-475.	2.1	11

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145	Reversible Boolean networks. Physica D: Nonlinear Phenomena, 2001, 157, 54-74.	2.8	11
146	Superconducting states of an extended Hubbard model. Physical Review B, 1990, 42, 2259-2267.	3.2	10
147	Weak long-ranged Casimir attraction in colloidal crystals. Europhysics Letters, 2002, 57, 451-457.	2.0	10
148	Multiscale theory of valley splitting in the conduction band of a quantum well. Physical Review B, 2008, 77, .	3.2	10
149	Electronic Transport Properties of Epitaxial Si/SiGe Heterostructures Grown on Single-Crystal SiGe Nanomembranes. ACS Nano, 2015, 9, 4891-4899.	14.6	10
150	Effects of charge noise on a pulse-gated singlet-triplet <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>S</mml:mi><mml:mspace width="0.16em"></mml:mspace><mml:mo>â°'</mml:mo><mml:mspace width="0.16em"></mml:mspace><mml:mi>T</mml:mi><mml:mo>â°'</mml:mo>a°'</mml:mrow><td>3.2</td><td>10</td></mml:math>	3.2	10
151	Effect of Quantum Hall Edge Strips on Valley Splitting in Silicon Quantum Wells. Physical Review Letters, 2020, 125, 186801.	7.8	10
152	High-fidelity entangling gates for quantum-dot hybrid qubits based on exchange interactions. Physical Review A, 2020, 101 , .	2.5	10
153	Evidence for glass and spin-glass phase transitions from the dynamic susceptibility. Journal of Research of the National Institute of Standards and Technology, 1997, 102, 207.	1.2	10
154	Force fluctuations in granular media. Physica D: Nonlinear Phenomena, 1997, 107, 183-185.	2.8	9
155	Valley splitting in a Si/SiGe quantum point contact. New Journal of Physics, 2010, 12, 033039.	2.9	9
156	Charge qubit in a triple quantum dot with tunable coherence. Physical Review Research, 2021, 3, .	3.6	9
157	Comment on "Dynamics of Charge-Density Waves Pinned by Impurities". Physical Review Letters, 1984, 52, 481-481.	7.8	8
158	Search for superconductivity in an extended Hubbard model. Physical Review B, 1989, 39, 9671-9674.	3.2	8
159	Characterization of a gate-defined double quantum dot in a Si/SiGe nanomembrane. Nanotechnology, 2016, 27, 154002.	2.6	8
160	Combining experiment and optical simulation in coherent X-ray nanobeam characterization of Si/SiGe semiconductor heterostructures. Journal of Applied Physics, 2016, 120, 015304.	2.5	8
161	Microwave engineering for semiconductor quantum dots in a cQED architecture. Applied Physics Letters, 2020, 117, .	3.3	8
162	Quantum stochastic resonance of individual Fe atoms. Science Advances, 2021, 7, .	10.3	8

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163	Nonlinear dynamics of sliding charge density waves. Physica D: Nonlinear Phenomena, 1991, 51, 131-137.	2.8	7
164	Vortex telegraph noise in high magnetic fields. Physical Review B, 1997, 56, R11431-R11434.	3.2	7
165	Complexity of the predecessor problem in Kauffman networks. Physical Review E, 2007, 75, 051108.	2.1	7
166	Spectroscopically Determined Collagen Pyr/deH-DHLNL Cross-Link Ratio and Crystallinity Indices Differ Markedly in Recombinant Congenic Mice with Divergent Calculated Bone Tissue Strength. Connective Tissue Research, 2003, 44, 134-142.	2.3	7
167	Compressed Optimization of Device Architectures for Semiconductor QuantumÂDevices. Physical Review Applied, 2019, 11, .	3.8	6
168	Unconventional Transport in the "Hole―Regime of a Si Double Quantum Dot. Physical Review Letters, 2011, 106, 186801.	7.8	5
169	Measurement-free implementations of small-scale surface codes for quantum-dot qubits. Physical Review A, 2018, 97, .	2.5	5
170	Phonon-induced decoherence of a charge quadrupole qubit. New Journal of Physics, 2018, 20, 103048.	2.9	5
171	Majorana bound states in nanowire-superconductor hybrid systems in periodic magnetic fields. Physical Review B, 2020, 101, .	3 . 2	5
172	Defect interactions in metallic glasses: Acoustic probes. Physical Review B, 1993, 48, 142-148.	3.2	4
173	Determining pair interactions from structural correlations. Physical Review B, 1998, 58, 14588-14593.	3.2	4
174	Long-range two-hybrid-qubit gates mediated by a microwave cavity with red sidebands. Physical Review A, 2021, 104, .	2.5	4
175	Charge-Noise Resilience of Two-Electron Quantum Dots in <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mi>Si</mml:mi><mml:mo>/</mml:mo><mml:mi>SiGe</mml:mi></mml:mrow><td>v>^{7,8}mml:r</td><td>nath></td></mml:math>	v> ^{7,8} mml:r	nath>
176	Comment on "NMR Study of the Structure and Motion of Charge-Density Waves in NbSe3". Physical Review Letters, 1986, 57, 1191-1191.	7.8	3
177	Comparison of mean-field theories of an extended Hubbard model. Physical Review B, 1990, 42, 3966-3970.	3.2	3
178	Top-gated few-electron double quantum dot in Si/SiGe. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 520-523.	2.7	3
179	Incommensurate phases of a supported nanoparticle film subjected to uniaxial compression. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 824-831.	7.1	3
180	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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181	Lifting of spin blockade by charged impurities in Si-MOS double quantum dot devices. Physical Review B, 2020, 101, .	3.2	3
182	Nonlinear effects and "inductive―response of a purely dissipative incommensurate chain. Physica D: Nonlinear Phenomena, 1986, 23, 54-61.	2.8	2
183	Nonconvergence of the t/U expansion in the metallic phase of the Hubbard model. Solid State Communications, 1991, 79, 1043-1046.	1.9	2
184	Cooling of cryogenic electron bilayers via the Coulomb interaction. Physical Review B, 2011, 84, .	3.2	2
185	Power-law scaling for the adiabatic algorithm for search-engine ranking. Physical Review A, 2013, 88, .	2.5	2
186	Leo P. Kadanoff (1937–2015): An appreciation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 471-472.	7.1	2
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