

Susan Coppersmith

List of Publications by Year in descending order

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210
papers

11,645
citations

24978

57
h-index

30848

102
g-index

215
all docs

215
docs citations

215
times ranked

6988
citing authors

#	ARTICLE	IF	CITATIONS
1	Silicon quantum electronics. <i>Reviews of Modern Physics</i> , 2013, 85, 961-1019.	16.4	892
2	Force Fluctuations in Bead Packs. <i>Science</i> , 1995, 269, 513-515.	6.0	754
3	A programmable two-qubit quantum processor in silicon. <i>Nature</i> , 2018, 555, 633-637.	13.7	534
4	Electrical control of a long-lived spin qubit in a Si/SiGe quantum dot. <i>Nature Nanotechnology</i> , 2014, 9, 666-670.	15.6	394
5	Model for force fluctuations in bead packs. <i>Physical Review E</i> , 1996, 53, 4673-4685.	0.8	393
6	Entangled quantum state of magnetic dipoles. <i>Nature</i> , 2003, 425, 48-51.	13.7	305
7	Quantum control and process tomography of a semiconductor quantum dot hybrid qubit. <i>Nature</i> , 2014, 511, 70-74.	13.7	242
8	Dislocations and the commensurate-incommensurate transition in two dimensions. <i>Physical Review B</i> , 1982, 25, 349-363.	1.1	238
9	Controllable valley splitting in silicon quantum devices. <i>Nature Physics</i> , 2007, 3, 41-45.	6.5	218
10	Dislocations and the Commensurate-Incommensurate Transition in Two Dimensions. <i>Physical Review Letters</i> , 1981, 46, 549-552.	2.9	198
11	Fast Hybrid Silicon Double-Quantum-Dot Qubit. <i>Physical Review Letters</i> , 2012, 108, 140503.	2.9	187
12	Mechanism of Calcite Co-Orientation in the Sea Urchin Tooth. <i>Journal of the American Chemical Society</i> , 2009, 131, 18404-18409.	6.6	181
13	A Microfluidic System for Large DNA Molecule Arrays. <i>Analytical Chemistry</i> , 2004, 76, 5293-5301.	3.2	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. <i>Nature Physics</i> , 2008, 4, 540-544.	6.5	148
16	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.	3.3	147
17	Valley splitting in strained silicon quantum wells. <i>Applied Physics Letters</i> , 2004, 84, 115-117.	1.5	142
18	Valley splitting theory of SiGe/Si quantum wells. <i>Physical Review B</i> , 2007, 75, .	1.1	142

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19	Nanoscale Transforming Mineral Phases in Fresh Nacre. Journal of the American Chemical Society, 2015, 137, 13325-13333.	6.6	138
20	Tunable Spin Loading and $T < 1$ of a Silicon Spin Qubit Measured by Single-Shot Readout. Physical Review Letters, 2011, 106, 156804.	2.9	133
21	Gradual Ordering in Red Abalone Nacre. Journal of the American Chemical Society, 2008, 130, 17519-17527.	6.6	126
22	Quantum stochastic resonance. Physical Review Letters, 1994, 72, 1947-1950.	2.9	124
23	Pinning and thermal fluctuations of a flux line in high-temperature superconductors. Physical Review Letters, 1989, 63, 2421-2424.	2.9	121
24	Phase slips and the instability of the Fukuyama-Lee-Rice model of charge-density waves. Physical Review Letters, 1990, 65, 1044-1047.	2.9	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.	3.3	119
26	Performance Limitations of Flat-Histogram Methods. Physical Review Letters, 2004, 92, 097201.	2.9	115
27	Valley splitting in low-density quantum-confined heterostructures studied using tight-binding models. Physical Review B, 2004, 70, .	1.1	108
28	Two-particle quantum walks applied to the graph isomorphism problem. Physical Review A, 2010, 81, .	1.0	108
29	Nacre Protein Fragment Templates Lamellar Aragonite Growth. Journal of the American Chemical Society, 2010, 132, 6329-6334.	6.6	108
30	Microwave-driven coherent operation of a semiconductor quantum dot charge qubit. Nature Nanotechnology, 2015, 10, 243-247.	15.6	107
31	Phase organization. Physical Review Letters, 1987, 58, 1161-1164.	2.9	98
32	Theory of valley-orbit coupling in a Si/SiGe quantum dot. Physical Review B, 2010, 81, .	1.1	98
33	Dissipative quantum tunneling of a single microscopic defect in a mesoscopic metal. Physical Review Letters, 1992, 68, 998-1001.	2.9	96
34	One-dimensional quantum walks with absorbing boundaries. Journal of Computer and System Sciences, 2004, 69, 562-592.	0.9	93
35	Comment on "Experimental evidence for vortex-glass superconductivity in Y-Ba-Cu-O". Physical Review Letters, 1990, 64, 2585-2585.	2.9	90
36	Architecture of Columnar Nacre, and Implications for Its Formation Mechanism. Physical Review Letters, 2007, 98, 268102.	2.9	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.	4.5	86
38	Pinning transition of the discrete sine-Gordon equation. Physical Review B, 1983, 28, 2566-2581.	1.1	85
39	Pulse-duration memory effect and deformable charge-density waves. Physical Review B, 1987, 36, 311-317.	1.1	85
40	Benchmarking Gate Fidelities in a Si/SiGe Two-Qubit Device. Physical Review X, 2019, 9, .	2.8	85
41	Spin-Based Quantum Dot Quantum Computing in Silicon. Quantum Information Processing, 2004, 3, 133-146.	1.0	83
42	Coherent quantum oscillations and echo measurements of a Si charge qubit. Physical Review B, 2013, 88, .	1.1	83
43	Fast coherent manipulation of three-electron states in a double quantum dot. Nature Communications, 2014, 5, 3020.	5.8	82
44	High-fidelity resonant gating of a silicon-based quantum dot hybrid qubit. Npj Quantum Information, 2015, 1, .	2.8	80
45	Interference Phenomena and Mode Locking in the Model of Deformable Sliding Charge-Density Waves. Physical Review Letters, 1986, 57, 1927-1930.	2.9	79
46	Single-Shot Measurement of Triplet-Singlet Relaxation in a Si/SiGe Double Quantum Dot. Physical Review Letters, 2012, 108, 046808.	2.9	78
47	Magnetic field dependence of valley splitting in realistic $\text{Si}^{\wedge}\text{SiGe}$ quantum wells. Applied Physics Letters, 2006, 89, 202106.	1.5	75
48	Measurement of c -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.	3.3	75
49	Pulse-Gated Quantum-Dot Hybrid Qubit. Physical Review Letters, 2012, 109, 250503.	2.9	75
50	Frustrated Interactions and Tunneling: Two-Level Systems in Glasses. Physical Review Letters, 1991, 67, 2315-2318.	2.9	72
51	Single-electron quantum dot in $\text{Si}^{\wedge}\text{SiGe}$ with integrated charge sensing. Applied Physics Letters, 2007, 91, .	1.5	72
52	Self-Sharpening Mechanism of the Sea Urchin Tooth. Advanced Functional Materials, 2011, 21, 682-690.	7.8	72
53	Extending the coherence of a quantum dot hybrid qubit. Npj Quantum Information, 2017, 3, .	2.8	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.	0.8	67

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55	Probing the Organic-Mineral Interface at the Molecular Level in Model Biominerals. <i>Langmuir</i> , 2008, 24, 2680-2687.	1.6	64
56	Threshold behavior of a driven incommensurate harmonic chain. <i>Physical Review A</i> , 1988, 38, 6338-6350.	1.0	59
57	Stochastic resonance: Nonperturbative calculation of power spectra and residence-time distributions. <i>Physical Review E</i> , 1994, 49, 4821-4831.	0.8	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. <i>Connective Tissue Research</i> , 2003, 44, 134-142.	1.1	57
59	Tunable singlet-triplet splitting in a few-electron Si/SiGe quantum dot. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	56
60	Coulomb blockade in a silicon/silicon-germanium two-dimensional electron gas quantum dot. <i>Applied Physics Letters</i> , 2004, 84, 4047-4049.	1.5	55
61	Polarization-dependent imaging contrast in abalone shells. <i>Physical Review B</i> , 2008, 77, .	1.1	54
62	Interaction and doping dependence of optical spectral weight of the two-dimensional Hubbard model. <i>Physical Review B</i> , 1990, 42, 10807-10810.	1.1	52
63	Theory of hole-spin qubits in strained germanium quantum dots. <i>Physical Review B</i> , 2021, 103, .	1.1	50
64	Diverging strains in the phase-deformation model of sliding charge-density waves. <i>Physical Review B</i> , 1991, 44, 7799-7807.	1.1	49
65	Valley dependent anisotropic spin splitting in silicon quantum dots. <i>Npj Quantum Information</i> , 2018, 4, .	2.8	49
66	Low-temperature phase of a stacked triangular Ising antiferromagnet. <i>Physical Review B</i> , 1985, 32, 1584-1594.	1.1	47
67	Inductive response from nonlinear mixing in sliding charge-density waves. <i>Physical Review B</i> , 1985, 31, 4049-4052.	1.1	47
68	Positioning and guidance of neurons on gold surfaces by directed assembly of proteins using Atomic Force Microscopy. <i>Biomaterials</i> , 2009, 30, 3397-3404.	5.7	45
69	A decoherence-free subspace in a charge quadrupole qubit. <i>Nature Communications</i> , 2017, 8, 15923.	5.8	45
70	Disorder-induced valley-orbit hybrid states in Si quantum dots. <i>Physical Review B</i> , 2013, 88, .	1.1	44
71	Variational wave functions and the Mott transition. <i>Physical Review B</i> , 1991, 43, 13770-13773.	1.1	43
72	Properties of layer-by-layer vector stochastic models of force fluctuations in granular materials. <i>Physical Review E</i> , 1999, 59, 5870-5880.	0.8	40

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73	Overdamped Frenkel-Kontorova model with randomness as a dynamical system: Mode locking and derivation of discrete maps. <i>Physical Review A</i> , 1987, 36, 3375-3382.	1.0	39
74	Virtual-photon-mediated spin-qubitâ€“transmon coupling. <i>Nature Communications</i> , 2019, 10, 5037.	5.8	39
75	Achieving high-fidelity single-qubit gates in a strongly driven charge qubit with $1/f$ charge noise. <i>Npj Quantum Information</i> , 2019, 5, .	2.8	39
76	Entanglement and collective flavor oscillations in a dense neutrino gas. <i>Physical Review D</i> , 2019, 100, .	1.6	39
77	Autotuning of Double-Dot Devices <i><i>In Situ</i></i> with Machine Learning. <i>Physical Review Applied</i> , 2020, 13, .	1.5	38
78	High-fidelity gates in quantum dot spin qubits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19695-19700.	3.3	37
79	State-conditional coherent charge qubit oscillations in a Si/SiGe quadruple quantum dot. <i>Npj Quantum Information</i> , 2016, 2, .	2.8	37
80	Two-electron dephasing in single Si and GaAs quantum dots. <i>Physical Review B</i> , 2012, 86, .	1.1	36
81	Pauli Blockade in Silicon Quantum Dots with Spin-Orbit Control. <i>PRX Quantum</i> , 2021, 2, .	3.5	36
82	Fast tunnel rates in Si/SiGe one-electron single and double quantum dots. <i>Applied Physics Letters</i> , 2010, 96, .	1.5	35
83	Nanoscale Distortions of Si Quantum Wells in Si/SiGe Quantumâ€“Electronic Heterostructures. <i>Advanced Materials</i> , 2012, 24, 5217-5221.	11.1	35
84	Ground states of two-dimensionalâ€“Edwards-Anderson spin glasses. <i>Physical Review B</i> , 2002, 65, .	1.1	31
85	Noninteracting multiparticle quantum random walks applied to the graph isomorphism problem for strongly regular graphs. <i>Physical Review A</i> , 2012, 86, .	1.0	31
86	Dynamics of an incommensurate harmonic chain. <i>Physical Review B</i> , 1984, 30, 410-412.	1.1	30
87	Second-Harmonic Coherent Driving of a Spin Qubit in a Si/SiGe Quantum Dot. <i>Physical Review Letters</i> , 2015, 115, 106802.	2.9	30
88	Quantum dots in Si/SiGe 2DEGs with Schottky top-gated leads. <i>New Journal of Physics</i> , 2005, 7, 246-246.	1.2	28
89	Distance Dependence of Neuronal Growth on Nanopatterned Gold Surfaces. <i>Langmuir</i> , 2011, 27, 233-239.	1.6	28
90	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, .	1.5	28

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91	Lipkin model on a quantum computer. <i>Physical Review C</i> , 2021, 104, .	1.1	28
92	Self-Organized Short-Term Memories. <i>Physical Review Letters</i> , 1997, 78, 3983-3986.	2.9	27
93	Characterizing gate operations near the sweet spot of an exchange-only qubit. <i>Physical Review B</i> , 2015, 91, .	1.1	27
94	The critical role of substrate disorder in valley splitting in Si quantum wells. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	27
95	Strong electron-electron interactions in Si/SiGe quantum dots. <i>Physical Review B</i> , 2021, 104, .	1.1	27
96	Anderson localization and breakdown of hydrodynamics in random ferromagnets. <i>Physical Review B</i> , 1986, 33, 6541-6544.	1.1	26
97	Physically-motivated dynamical algorithms for the graph isomorphism problem. <i>Quantum Information and Computation</i> , 2005, 5, 492-506.	0.1	26
98	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.	1.2	25
99	Scalar model of inhomogeneous elastic and granular media. <i>Physical Review E</i> , 2000, 62, 5248-5262.	0.8	24
100	Electron spin coherence in Si. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 35, 257-263.	1.3	24
101	Ultrasonic Attenuation in Clean Anisotropic Superconductors. <i>Physical Review Letters</i> , 1986, 56, 1870-1873.	2.9	23
102	Pauli spin blockade and lifetime-enhanced transport in a Si/SiGe double quantum dot. <i>Physical Review B</i> , 2010, 82, .	1.1	23
103	Dressed photon-orbital states in a quantum dot: Intervalley spin resonance. <i>Physical Review B</i> , 2017, 95, .	1.1	23
104	Strong photon coupling to the quadrupole moment of an electron in a solid-state qubit. <i>Nature Physics</i> , 2020, 16, 642-646.	6.5	23
105	Coherent Control and Spectroscopy of a Semiconductor Quantum Dot Wigner Molecule. <i>Physical Review Letters</i> , 2021, 127, 127701.	2.9	23
106	Achieving high-fidelity single-qubit gates in a strongly driven silicon-quantum-dot hybrid qubit. <i>Physical Review A</i> , 2017, 95, .	1.0	22
107	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.	0.3	20
108	Reversible Boolean networks I: distribution of cycle lengths. <i>Physica D: Nonlinear Phenomena</i> , 2001, 149, 11-29.	1.3	20

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109	Adiabatic two-qubit gates in capacitively coupled quantum dot hybrid qubits. Npj Quantum Information, 2019, 5, .	2.8	20
110	Spatial noise correlations in a Si/SiGe two-qubit device from Bell state coherences. Physical Review B, 2020, 101, .	1.1	20
111	Valley splittings in Si/SiGe quantum dots with a germanium spike in the silicon well. Physical Review B, 2021, 104, .	1.1	20
112	Pinning energies and phase slips in weakly pinned charge-density waves. Physical Review B, 1991, 44, 2887-2894.	1.1	19
113	Single-shot measurement and tunnel-rate spectroscopy of a Si/SiGe few-electron quantum dot. Physical Review B, 2011, 84, .	1.1	19
114	Measurements of Capacitive Coupling Within a Quadruple-Quantum-Dot Array. Physical Review Applied, 2019, 12, .	1.5	19
115	Phase diagram of the Hubbard model: A variational wave-function approach. Physical Review B, 1989, 39, 11464-11474.	1.1	18
116	Pulse sequences for suppressing leakage in single-qubit gate operations. Physical Review B, 2017, 95, .	1.1	18
117	Enhancing the dipolar coupling of a S-TO qubit with a transverse sweet spot. Nature Communications, 2019, 10, 5641.	5.8	18
118	Repetitive Quantum Nondemolition Measurement and Soft Decoding of a Silicon Spin Qubit. Physical Review X, 2020, 10, .	2.8	18
119	Semiconductor quantum dot qubits. MRS Bulletin, 2013, 38, 794-801.	1.7	17
120	Signatures of atomic-scale structure in the energy dispersion and coherence of a Si quantum-dot qubit. Physical Review B, 2018, 98, .	1.1	17
121	High-fidelity single-qubit gates in a strongly driven quantum-dot hybrid qubit with noise. Physical Review A, 2019, 100, .		
122	Shift in the longitudinal sound velocity due to sliding charge-density waves. Physical Review B, 1984, 30, 3566-3568.	1.1	16
123	Noise stabilization of self-organized memories. Physical Review E, 1999, 59, 4970-4982.	0.8	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 in inhomogeneous magnetic fields. Physical Review B, 2015, 92, .	1.1	16
126	Electrode-stress-induced nanoscale disorder in Si quantum electronic devices. APL Materials, 2016, 4, 066102.	2.2	16

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127	Fabrication process and failure analysis for robust quantum dots in silicon. <i>Nanotechnology</i> , 2020, 31, 505001.	1.3	16
128	Collective neutrino oscillations with tensor networks using a time-dependent variational principle. <i>Physical Review D</i> , 2022, 105, .	1.6	16
129	Dislocations and the Commensurate-Incommensurate Transition in two Dimensions. <i>Physical Review Letters</i> , 1981, 46, 869-869.	2.9	15
130	Overdamped Frenkel-Kontorova model with randomness as a dynamical system. II. Numerical studies of mode locking. <i>Physical Review A</i> , 1988, 38, 375-381.	1.0	15
131	Progress toward a capacitively mediated CNOT between two charge qubits in Si/SiGe. <i>Npj Quantum Information</i> , 2020, 6, .	2.8	15
132	How Valley-Orbit States in Silicon Quantum Dots Probe Quantum Well Interfaces. <i>Physical Review Letters</i> , 2022, 128, 146802.	2.9	15
133	Normal and antiferromagnetic states of an extended Hubbard model. <i>Physical Review B</i> , 1990, 41, 8711-8722.	1.1	14
134	Perturbative and variational calculations of charge fluctuations of an extended Hubbard model. <i>Physical Review B</i> , 1990, 41, 2646-2649.	1.1	14
135	Identifying single electron charge sensor events using wavelet edge detection. <i>Nanotechnology</i> , 2015, 26, 215201.	1.3	14
136	Studies with mechanism-based inactivators of lysine .epsilon.-transaminase from <i>Achromobacter liquidum</i> . <i>Biochemistry</i> , 1979, 18, 3917-3920.	1.2	13
137	The instability of long-period commensurate phases in the presence of quenched impurities. <i>Journal of Physics C: Solid State Physics</i> , 1985, 18, 3911-3918.	1.5	13
138	Low-temperature acoustic properties of metallic glasses. <i>Physical Review B</i> , 1993, 47, 4922-4936.	1.1	13
139	Analysis of a Population Genetics Model with Mutation, Selection, and Pleiotropy. <i>Journal of Statistical Physics</i> , 1999, 97, 429-457.	0.5	13
140	Quantum dots and etch-induced depletion of a silicon two-dimensional electron gas. <i>Journal of Applied Physics</i> , 2006, 99, 023509.	1.1	13
141	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.	0.7	13
142	Transport through an impurity tunnel coupled to a Si/SiGe quantum dot. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	13
143	Response of a purely dissipative incommensurate chain to large driving pulses. <i>Physical Review B</i> , 1986, 34, 2073-2079.	1.1	12
144	A simple illustration of "œphase organization"œ. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1987, 125, 473-475.	0.9	11

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145	Reversible Boolean networks. <i>Physica D: Nonlinear Phenomena</i> , 2001, 157, 54-74.	1.3	11
146	Superconducting states of an extended Hubbard model. <i>Physical Review B</i> , 1990, 42, 2259-2267.	1.1	10
147	Weak long-ranged Casimir attraction in colloidal crystals. <i>Europhysics Letters</i> , 2002, 57, 451-457.	0.7	10
148	Multiscale theory of valley splitting in the conduction band of a quantum well. <i>Physical Review B</i> , 2008, 77, .	1.1	10
149	Electronic Transport Properties of Epitaxial Si/SiGe Heterostructures Grown on Single-Crystal SiGe Nanomembranes. <i>ACS Nano</i> , 2015, 9, 4891-4899.	7.3	10
150	Effects of charge noise on a pulse-gated singlet-triplet S qubit. <i>Physical Review B</i> , 2017, 96, .	1.1	10
151	Effect of Quantum Hall Edge Strips on Valley Splitting in Silicon Quantum Wells. <i>Physical Review Letters</i> , 2020, 125, 186801.	2.9	10
152	High-fidelity entangling gates for quantum-dot hybrid qubits based on exchange interactions. <i>Physical Review A</i> , 2020, 101, .	1.0	10
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.	0.4	10
154	Force fluctuations in granular media. <i>Physica D: Nonlinear Phenomena</i> , 1997, 107, 183-185.	1.3	9
155	Valley splitting in a Si/SiGe quantum point contact. <i>New Journal of Physics</i> , 2010, 12, 033039.	1.2	9
156	Charge qubit in a triple quantum dot with tunable coherence. <i>Physical Review Research</i> , 2021, 3, .	1.3	9
157	Comment on "Dynamics of Charge-Density Waves Pinned by Impurities". <i>Physical Review Letters</i> , 1984, 52, 481-481.	2.9	8
158	Search for superconductivity in an extended Hubbard model. <i>Physical Review B</i> , 1989, 39, 9671-9674.	1.1	8
159	Characterization of a gate-defined double quantum dot in a Si/SiGe nanomembrane. <i>Nanotechnology</i> , 2016, 27, 154002.	1.3	8
160	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.	1.1	8
161	Microwave engineering for semiconductor quantum dots in a cQED architecture. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	8
162	Quantum stochastic resonance of individual Fe atoms. <i>Science Advances</i> , 2021, 7, .	4.7	8

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163	Nonlinear dynamics of sliding charge density waves. <i>Physica D: Nonlinear Phenomena</i> , 1991, 51, 131-137.	1.3	7
164	Vortex telegraph noise in high magnetic fields. <i>Physical Review B</i> , 1997, 56, R11431-R11434.	1.1	7
165	Complexity of the predecessor problem in Kauffman networks. <i>Physical Review E</i> , 2007, 75, 051108.	0.8	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. <i>Connective Tissue Research</i> , 2003, 44, 134-142.	1.1	7
167	Compressed Optimization of Device Architectures for Semiconductor Quantum Devices. <i>Physical Review Applied</i> , 2019, 11, .	1.5	6
168	Unconventional Transport in the "Hole" Regime of a Si Double Quantum Dot. <i>Physical Review Letters</i> , 2011, 106, 186801.	2.9	5
169	Measurement-free implementations of small-scale surface codes for quantum-dot qubits. <i>Physical Review A</i> , 2018, 97, .	1.0	5
170	Phonon-induced decoherence of a charge quadrupole qubit. <i>New Journal of Physics</i> , 2018, 20, 103048.	1.2	5
171	Majorana bound states in nanowire-superconductor hybrid systems in periodic magnetic fields. <i>Physical Review B</i> , 2020, 101, .	1.1	5
172	Defect interactions in metallic glasses: Acoustic probes. <i>Physical Review B</i> , 1993, 48, 142-148.	1.1	4
173	Determining pair interactions from structural correlations. <i>Physical Review B</i> , 1998, 58, 14588-14593.	1.1	4
174	Long-range two-hybrid-qubit gates mediated by a microwave cavity with red sidebands. <i>Physical Review A</i> , 2021, 104, .	1.0	4
175	Charge-Noise Resilience of Two-Electron Quantum Dots in Si/SiGe Heterostructures. <i>Physical Review Letters</i> , 2022, 128, .	2.9	4
176	Comment on "NMR Study of the Structure and Motion of Charge-Density Waves in NbSe_3 ". <i>Physical Review Letters</i> , 1986, 57, 1191-1191.	2.9	3
177	Comparison of mean-field theories of an extended Hubbard model. <i>Physical Review B</i> , 1990, 42, 3966-3970.	1.1	3
178	Top-gated few-electron double quantum dot in Si/SiGe . <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 520-523.	1.3	3
179	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.	3.3	3
180	The effect of external electric fields on silicon with superconducting gallium nano-precipitates. <i>Journal of Applied Physics</i> , 2020, 127, 215102.	1.1	3

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181	Lifting of spin blockade by charged impurities in Si-MOS double quantum dot devices. <i>Physical Review B</i> , 2020, 101, .	1.1	3
182	Nonlinear effects and "inductive" response of a purely dissipative incommensurate chain. <i>Physica D: Nonlinear Phenomena</i> , 1986, 23, 54-61.	1.3	2
183	Nonconvergence of the t/U expansion in the metallic phase of the Hubbard model. <i>Solid State Communications</i> , 1991, 79, 1043-1046.	0.9	2
184	Cooling of cryogenic electron bilayers via the Coulomb interaction. <i>Physical Review B</i> , 2011, 84, .	1.1	2
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