Robert H Blick

List of Publications by Year
in descending order

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217 papers	5,838 citations	94433 37 h-index	88630 70 g-index
220 all docs	220 docs citations	220 times ranked	5109 citing authors

#	Article	IF	Citations
1	Giant Piezoelectricity on Si for Hyperactive MEMS. Science, 2011, 334, 958-961.	12.6	394
2	Whole Cell Patch Clamp Recording Performed on a Planar Glass Chip. Biophysical Journal, 2002, 82, 3056-3062.	0.5	344
3	Coherent Coupling of Two Quantum Dots Embedded in an Aharonov-Bohm Interferometer. Physical Review Letters, 2001, 87, 256802.	7.8	299
4	Anomalous Kondo Effect in a Quantum Dot at Nonzero Bias. Physical Review Letters, 1999, 83, 804-807.	7.8	228
5	Probing and Controlling the Bonds of an Artificial Molecule. Science, 2002, 297, 70-72.	12.6	224
6	Formation of a Coherent Mode in a Double Quantum Dot. Physical Review Letters, 1998, 80, 4032-4035.	7.8	217
7	Single-electron tunneling through a double quantum dot: The artificial molecule. Physical Review B, 1996, 53, 7899-7902.	3.2	168
8	Nanomechanical Architecture of Strained Bilayer Thin Films: From Design Principles to Experimental Fabrication. Advanced Materials, 2005, 17, 2860-2864.	21.0	167
9	Electrical characterization of electrochemically grown single copper nanowires. Applied Physics Letters, 2003, 82, 2139-2141.	3.3	164
10	Spin blockade and lifetime-enhanced transport in a few-electron Si/SiGe double quantum dot. Nature Physics, 2008, 4, 540-544.	16.7	148
11	Magnetic Focusing of Composite Fermions through Arrays of Cavities. Physical Review Letters, 1996, 77, 2272-2275.	7.8	127
12	Photonâ€assisted tunneling through a quantum dot at high microwave frequencies. Applied Physics Letters, 1995, 67, 3924-3926.	3.3	126
13	Quantum-dot ground states in a magnetic field studied by single-electron tunneling spectroscopy on double-barrier heterostructures. Physical Review B, 1995, 51, 5570-5573.	3.2	114
14	Activity of single ion channel proteins detected with a planar microstructure. Applied Physics Letters, 2002, 81, 4865-4867.	3.3	109
15	Silicon nanopillars for mechanical single-electron transport. Applied Physics Letters, 2004, 84, 4632-4634.	3.3	97
16	Complex Broadband Millimeter Wave Response of a Double Quantum Dot: Rabi Oscillations in an Artificial Molecule. Physical Review Letters, 1998, 81, 689-692.	7.8	92
17	Semiconductor Nanomembrane Tubes: Three-Dimensional Confinement for Controlled Neurite Outgrowth. ACS Nano, 2011, 5, 2447-2457.	14.6	85
18	Mechanical mixing in nonlinear nanomechanical resonators. Applied Physics Letters, 2000, 77, 3102-3104.	3.3	83

#	Article	IF	Citations
19	Nanomechanical resonators operating as charge detectors in the nonlinear regime. Europhysics Letters, 2000, 50, 101-106.	2.0	74
20	Stable integration of isolated cell membrane patches in a nanomachined aperture. Applied Physics Letters, 2000, 77, 1218-1220.	3.3	73
21	Single-electron quantum dot in Siâˆ•SiGe with integrated charge sensing. Applied Physics Letters, 2007, 91, .	3.3	72
22	A mechanically flexible tunneling contact operating at radio frequencies. Applied Physics Letters, 1998, 73, 3751-3753.	3.3	71
23	Coulomb blockade in quasimetallic silicon-on-insulator nanowires. Applied Physics Letters, 1999, 75, 3704-3706.	3.3	62
24	X-ray-Based Techniques to Study the Nanoâ€“Bio Interface. ACS Nano, 2021, 15, 3754-3807.	14.6	60
25	Coulomb blockade in silicon nanostructures. Progress in Quantum Electronics, 2001, 25, 97-138.	7.0	59
26	Fabrication and contacting of single Bi nanowires. Nanotechnology, 2004, 15, S201-S207.	2.6	56
27	Coulomb blockade in a silicon/siliconâ€“germanium two-dimensional electron gas quantum dot. Applied Physics Letters, 2004, 84, 4047-4049.	3.3	55
28	Josephson junctions defined by a nanoplough. Applied Physics Letters, 1998, 73, 2051-2053.	3.3	54
29	On geometric potentials in quantum-electromechanical circuits. New Journal of Physics, 2004, 6, 33-33.	2.9	47
30	Evidence of a nanomechanical resonator being driven into chaotic response via the Ruelleâ€“Takens route. Applied Physics Letters, 2002, 81, 1884-1886.	3.3	44
31	Nanostructured silicon for studying fundamental aspects of nanomechanics. Journal of Physics Condensed Matter, 2002, 14, R905-R945.	1.8	44
32	Toward Brain-on-a-Chip: Human Induced Pluripotent Stem Cell-Derived Guided Neuronal Networks in Tailor-Made 3D Nanoprinted Microscaffolds. ACS Nano, 2020, 14, 13091-13102.	14.6	44
33	A nanomechanical computerâ€”exploring new avenues of computing. New Journal of Physics, 2007, 9, 241-241.	2.9	43
34	Single-electron tunneling in highly doped silicon nanowires in a dual-gate configuration. Journal of Applied Physics, 2001, 89, 8159-8162.	2.5	41
35	Periodic Field Emission from an Isolated Nanoscale Electron Island. Physical Review Letters, 2004, 93, 186801.	7.8	40
36	A Mechanical Nanomembrane Detector for Time-of-Flight Mass Spectrometry. Nano Letters, 2011, 11, 3681-3684.	9.1	39

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37	Suspending highly doped silicon-on-insulator wires for applications in nanomechanics. Nanotechnology, 1999, 10, 418-420.	2.6	38
38	Fabrication of coupled quantum dots for multiport access. Applied Physics Letters, 2003, 82, 1887-1889.	3.3	37
39	Integrating suspended quantum dot circuits for applications in nanomechanics. Applied Physics Letters, 2002, 81, 280-282.	3.3	36
40	Spin blockade in ground-state resonance of a quantum dot. Europhysics Letters, 2003, 62, 712-718.	2.0	36
41	Magnetotransport measurements on freely suspended two-dimensional electron gases. Physical Review B, 2000, 62, 17103-17107.	3.2	31
42	Nanoscale Lateral Field-Emission Triode Operating at Atmospheric Pressure. Advanced Materials, 2001, 13, 1780-1783.	21.0	31
43	Electron-phonon interaction in suspended highly doped silicon nanowires. Nanotechnology, 2002, 13, 491-494.	2.6	31
44	Tunable coupled nanomechanical resonators for single-electron transport. New Journal of Physics, 2002, 4, 86-86.	2.9	30
45	Time-Resolved Analysis of the Structural Dynamics of Assembling Gold Nanoparticles. ACS Nano, 2019, 13, 6596-6604.	14.6	30
46	Quantum dots in Si/SiGe 2DEGs with Schottky top-gated leads. New Journal of Physics, 2005, 7, 246-246.	2.9	28
47	Magnetotransport through two dimensional electron gas in a tubular geometry. Applied Physics Letters, 2007, 90, 042101.	3.3	28
48	Coulomb Blockade in a Coupled Nanomechanical Electron Shuttle. ACS Nano, 2012, 6, 651-655.	14.6	28
49	Colloidal quantum dots initiating current bursts in lipid bilayers. Biosensors and Bioelectronics, 2005, 20, 2173-2176.	10.1	26
50	Spontaneous Symmetry Breaking in Two Coupled Nanomechanical Electron Shuttles. Physical Review Letters, 2010, 105, 067204.	7.8	26
51	Phonon-Assisted Field Emission in Silicon Nanomembranes for Time-of-Flight Mass Spectrometry of Proteins. Nano Letters, 2013, 13, 2698-2703.	9.1	25
52	Bonding silicon-on-insulator to glass wafers for integrated bio-electronic circuits. Applied Physics Letters, 2004, 85, 2370-2372.	3.3	24
53	Harnessing Slow Light in Optoelectronically Engineered Nanoporous Photonic Crystals for Visible Light-Enhanced Photocatalysis. ACS Catalysis, 2021, 11, 12947-12962.	11.2	24
54	Laser drilling of nano-pores in sandwiched thin glass membranes. Optics Express, 2009, 17, 10044.	3.4	23

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55	Pauli spin blockade and lifetime-enhanced transport in a Si/SiGe double quantum dot. Physical Review B, 2010, 82, .	3.2	23
56	Microscaffolds by Direct Laser Writing for Neurite Guidance Leading to Tailorâ€Made Neuronal Networks. Advanced Biology, 2019, 3, e1800329.	3.0	23
57	Microfluidic polyimide gas dynamic virtual nozzles for serial crystallography. Review of Scientific Instruments, 2020, 91, 085108.	1.3	22
58	Sculpturing wafer-scale nanofluidic devices for DNA single molecule analysis. Nanoscale, 2019, 11, 13620-13631.	5.6	21
59	Mechanical gating of coupled nanoelectromechanical resonators operating at radio frequency. Applied Physics Letters, 2003, 82, 352-354.	3.3	20
60	Charge detection with nanomechanical resonators. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 821-827.	2.7	19
61	Ultra-fast cell counters based on microtubular waveguides. Scientific Reports, 2017, 7, 41584.	3.3	19
62	Electron-spin resonance in a quantum dot. Physical Review B, 1998, 57, R12685-R12688.	3.2	18
63	Photonic materials for high-temperature applications: Synthesis and characterization by X-ray ptychographic tomography. Applied Materials Today, 2018, 13, 359-369.	4.3	18
64	Electrochemical Engineering of Nanoporous Materials for Photocatalysis: Fundamentals, Advances, and Perspectives. Catalysts, 2019, 9, 988.	3.5	18
65	In situ control of electron gas dimensionality in freely suspended semiconductor membranes. Applied Physics Letters, 2003, 82, 4160-4162.	3.3	17
66	Direct mechanical mixing in a nanoelectromechanical diode. Applied Physics Letters, 2007, 91, 143101.	3.3	17
67	Self-excitation of single nanomechanical pillars. New Journal of Physics, 2010, 12, 033008.	2.9	17
68	Coulomb-Controlled Single Electron Field Emission via a Freely Suspended Metallic Island. Nano Letters, 2010, 10, 615-619.	9.1	17
69	Realizing Broadbands of Strong Nonlinear Coupling in Nanoelectromechanical Electron Shuttles. Physical Review Letters, 2013, 111, 197202.	7.8	17
70	Understanding the Growth Mechanisms of Multilayered Systems in Atomic Layer Deposition Process. Chemistry of Materials, 2018, 30, 1971-1979.	6.7	17
71	Nanomechanical vibrating wire resonator for phonon spectroscopy in liquid helium. Nanotechnology, 2000, 11, 165-168.	2.6	16
72	Parametric frequency tuning of phase-locked nanoelectromechanical resonators. Applied Physics Letters, 2001, 79, 3521-3523.	3.3	16

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73	Phase coherent transport in two coupled quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 16, 76-82.	2.7	16
74	Guided neuronal growth on arrays of biofunctionalized GaAs/InGaAs semiconductor microtubes. Applied Physics Letters, 2013, 103, .	3.3	16
75	Upscaling high-quality CVD graphene devices to 100 micron-scale and beyond. Applied Physics Letters, 2017, 110, .	3.3	16
76	Investigation of nano-electromechanical-systems using surface acoustic waves. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 473-476.	2.7	15
77	Fabrication and transport characterization of a primary thermometer formed by Coulomb islands in a suspended silicon nanowire. Applied Physics Letters, 2003, 82, 3773-3775.	3.3	15
78	Current bursts in lipid bilayers initiated by colloidal quantum dots. Applied Physics Letters, 2005, 86, 083901.	3.3	15
79	Broadband characterization of charge carrier transfer of hybrid graphene-deoxyribonucleic acid junctions. Carbon, 2018, 130, 525-531.	10.3	15
80	The Nanomechanical Bit. Small, 2020, 16, e2001580.	10.0	15
81	Interfacing human induced pluripotent stem cell-derived neurons with designed nanowire arrays as a future platform for medical applications. Biomaterials Science, 2020, 8, 2434-2446.	5.4	15
82	A â€˜bed of nailsâ€™ on silicon. Nature, 2004, 432, 450-451.	27.8	14
83	Field emission from a single nanomechanical pillar. Nanotechnology, 2007, 18, 065201.	2.6	14
84	Shock Waves in Nanomechanical Resonators. Physical Review Letters, 2008, 100, 026801.	7.8	14
85	Strain-induced Dirac state shift in topological insulator Bi2Se3 nanowires. Applied Physics Letters, 2017, 111, 171601.	3.3	14
86	Single-neuronal cell culture and monitoring platform using a fully transparent microfluidic DEP device. Scientific Reports, 2018, 8, 13194.	3.3	14
87	3D Micromachined Polyimide Mixing Devices for in Situ X-ray Imaging of Solution-Based Block Copolymer Phase Transitions. Langmuir, 2019, 35, 10435-10445.	3.5	14
88	Formation of microtubes from strained SiGe/Si heterostructures. New Journal of Physics, 2005, 7, 241-241.	2.9	13
89	Mechanical actuation of ion channels using a piezoelectric planar patch clamp system. Lab on A Chip, 2012, 12, 80-87.	6.0	13
90	Fabrication and integration possibilities of ultrasmall quantum dots in silicon-on-insulator material. Journal of Applied Physics, 2001, 90, 942-946.	2.5	12

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91	Magnetotransport in Nonplanar SiGe/Si Nanomembranes. IEEE Nanotechnology Magazine, 2007, 6, 446-450.	2.0	12
92	Nanopillar arrays on semiconductor membranes as electron emission amplifiers. Nanotechnology, 2008, 19, 095504.	2.6	12
93	Lowâ€Temperature Mullite Formation in Ternary Oxide Coatings Deposited by ALD for Highâ€Temperature Applications. Advanced Materials Interfaces, 2017, 4, 1700912.	3.7	12
94	Tank Circuit for Ultrafast Single-Particle Detection in Micropores. Physical Review Letters, 2018, 121, 078102.	7.8	12
95	Acoustically Induced Giant Synthetic Hall Voltages in Graphene. Physical Review Letters, 2022, 128, .	7.8	12
96	Dynamic control and modal analysis of coupled nano-mechanical resonators. Applied Physics Letters, 2003, 82, 3333-3335.	3.3	11
97	Effects of low attenuation in a nanomechanical electron shuttle. Journal of Applied Physics, 2004, 96, 1757-1759.	2.5	11
98	Observation of single-defect relaxation in a freely suspended nano resonator. Europhysics Letters, 2006, 76, 1207-1213.	2.0	11
99	Single-Ion Channel Recordings on Quartz Substrates. IEEE Transactions on Nanobioscience, 2010, 9, 307-309.	3.3	11
100	Quasi-dynamic mode of nanomembranes for time-of-flight mass spectrometry of proteins. Nanoscale, 2012, 4, 2543.	5.6	11
101	Designer Neural Networks with Embedded Semiconductor Microtube Arrays. Langmuir, 2018, 34, 1528-1534.	3.5	11
102	Resonant Tunneling Induced Enhancement of Electron Field Emission by Ultra-Thin Coatings. Scientific Reports, 2019, 9, 6840.	3.3	11
103	Microwave spectroscopy on a double quantum dot with an on-chip Josephson oscillator. New Journal of Physics, 2000, 2, 2-2.	2.9	10
104	Radio frequency rectification on membrane bound pores. Nanotechnology, 2010, 21, 075201.	2.6	10
105	Approaching Integrated Hybrid Neural Circuits: Axon Guiding on Optically Active Semiconductor Microtube Arrays. Advanced Materials Interfaces, 2016, 3, 1600746.	3.7	10
106	Effects of processing parameters on 3D structural ordering and optical properties of inverse opal photonic crystals produced by atomic layer deposition. International Journal of Ceramic Engineering & Science, 2019, 1, 68-76.	1.2	10
107	Direct writing of colloidal suspensions onto inclined surfaces: Optimizing dispense volume for homogeneous structures. Journal of Colloid and Interface Science, 2021, 597, 137-148.	9.4	10
108	Sound propagation in heavy fermion compounds. Journal of Magnetism and Magnetic Materials, 1992, 108, 109-110.	2.3	9

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109	Tunnelling through quantum dots. Semiconductor Science and Technology, 1996, 11, 1506-1511.	2.0	9
110	Coupled quantum dots: manifestation of an artificial molecule. Superlattices and Microstructures, 1998, 23, 1255-1264.	3.1	9
111	Nano-ploughed Josephson junctions as on-chip radiation sources. Superlattices and Microstructures, 1999, 25, 785-795.	3.1	9
112	Culturing and patch clamping of Jurkat T cells and neurons on Al₂O₃ coated nanowire arrays of altered morphology. RSC Advances, 2019, 9, 11194-11201.	3.6	9
113	Single-crystalline silicon lift-off films for metalâ€“oxideâ€“semiconductor devices on arbitrary substrates. Applied Physics Letters, 2000, 77, 558-560.	3.3	8
114	Magnetotransport in freely suspended two-dimensional electron systems for integrated nanomechanical resonators. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 487-490.	2.7	8
115	Aharonovâ€“Bohm oscillations for charge transport through two parallel quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 774-777.	2.7	8
116	Effect of surface bonding on semiconductor nanoribbon wiggling structure. Applied Physics Letters, 2010, 96, 111904.	3.3	8
117	Wavenumber-Domain Theory of Terahertz Single-Walled Carbon Nanotube Antenna. IEEE Journal of Selected Topics in Quantum Electronics, 2012, 18, 166-175.	2.9	8
118	A Silicon Nanomembrane Detector for Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry (MALDI-TOF MS) of Large Proteins. Sensors, 2013, 13, 13708-13716.	3.8	8
119	Neurite guidance and neuro-caging on steps and grooves in 2.5 dimensions. Nanoscale Advances, 2020, 2, 5192-5200.	4.6	8
120	Influence of Alumina Addition on the Optical Properties and the Thermal Stability of Titania Thin Films and Inverse Opals Produced by Atomic Layer Deposition. Nanomaterials, 2021, 11, 1053.	4.1	8
121	Improved thermal stability of zirconia macroporous structures via homogeneous aluminum oxide doping and nanostructuring using atomic layer deposition. Journal of the European Ceramic Society, 2021, 41, 4302-4312.	5.7	8
122	Robust neuronal differentiation of human iPSC-derived neural progenitor cells cultured on densely-spaced spiky silicon nanowire arrays. Scientific Reports, 2021, 11, 18819.	3.3	8
123	Transport spectroscopy of single and coupled quantum-dot systems. Physica B: Condensed Matter, 1995, 212, 207-212.	2.7	7
124	Comparing schemes of displacement detection and subharmonic generation in nanomachined mechanical resonators. Nanotechnology, 2003, 14, 799-802.	2.6	7
125	Tracing the transition of a macro electron shuttle into nonlinear response. Applied Physics Letters, 2015, 106, 061909.	3.3	7
126	Low-Temperature Vapor-Solid Growth of ZnO Nanowhiskers for Electron Field Emission. Coatings, 2019, 9, 698.	2.6	7

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127	Nanomechanical resonators operating at radio frequencies. Physica B: Condensed Matter, 1999, 272, 575-577.	2.7	6
128	Electronâ€“phonon interaction in freely suspended quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 18, 99-100.	2.7	6
129	Subthreshold field emission from thin silicon membranes. Applied Physics Letters, 2007, 91, 183506.	3.3	6
130	An Ultrawideband Cross-Correlation Radiometer for Mesoscopic Experiments. IEEE Transactions on Instrumentation and Measurement, 2008, 57, 2874-2879.	4.7	6
131	A mode-locked nanomechanical electron shuttle for phase-coherent frequency conversion. New Journal of Physics, 2010, 12, 023019.	2.9	6
132	Local-Wetting-Induced Deformation of Rolled-Up Si/Si-Ge Nanomembranes: A Potential Route for Remote Chemical Sensing. IEEE Nanotechnology Magazine, 2011, 10, 21-25.	2.0	6
133	Rapid fabrication and piezoelectric tuning of micro- and nanopores in single crystal quartz. Lab on A Chip, 2013, 13, 156-160.	6.0	6
134	Creation and regulation of ion channels across reconstituted phospholipid bilayers generated by streptavidin-linked magnetite nanoparticles. Physical Review E, 2014, 89, 012707.	2.1	6
135	A single electron nanomechanical Y-switch. Nanoscale, 2014, 6, 8571.	5.6	6
136	Giant acoustoelectric current in suspended quantum point contacts. Physical Review B, 2016, 94, .	3.2	6
137	Critical current and vortex lattice in superconducting UPt3. Journal of Magnetism and Magnetic Materials, 1992, 108, 111-112.	2.3	5
138	Single-electron transistors with quantum dots. Physica B: Condensed Matter, 1996, 227, 82-86.	2.7	5
139	Single-electron tunneling in silicon nanostructures. Applied Physics A: Materials Science and Processing, 2000, 71, 357-365.	2.3	5
140	Fabrication of doped nanoâ€electromechanical systems. Physica Status Solidi - Rapid Research Letters, 2007, 1, 205-207.	2.4	5
141	A Temperature-Controlled Patch Clamp Platform Demonstrated on Jurkat T Lymphocytes and Human Induced Pluripotent Stem Cell-Derived Neurons. Bioengineering, 2020, 7, 46.	3.5	5
142	Acoustically driven Dirac electrons in monolayer graphene. Applied Physics Letters, 2020, 116, 103102.	3.3	5
143	Mechanically Modulated Sideband and Squeezing Effects of Membrane Resonators. Physical Review Letters, 2021, 127, 184301.	7.8	5
144	Field emission characteristics of ZnO nanowires grown by catalyst-assisted MOCVD on free-standing inorganic nanomembranes. Journal Physics D: Applied Physics, 2022, 55, 255104.	2.8	5

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145	Drastic enhancement of nanoelectromechanical-system fabrication yield using electron-beam deposition. Applied Physics Letters, 2004, 85, 157-159.	3.3	4
146	Detection of coherent acoustic oscillations in a quantum electromechanical resonator. Applied Physics Letters, 2007, 90, 043101.	3.3	4
147	Local etch control for fabricating nanomechanical devices. Journal of Applied Physics, 2010, 108, 074307.	2.5	4
148	On-Chip Stochastic Resonance of Ion Channel Systems With Variable Internal Noise. IEEE Transactions on Nanobioscience, 2012, 11, 169-175.	3.3	4
149	Dataset of ptychographic X-ray computed tomography of inverse opal photonic crystals produced by atomic layer deposition. Data in Brief, 2018, 21, 1924-1936.	1.0	4
150	Transparency induced in opals via nanometer thick conformal coating. Scientific Reports, 2019, 9, 11379.	3.3	4
151	Transport spectroscopy in single-electron tunneling transistors. Nanotechnology, 1996, 7, 381-384.	2.6	3
152	Mechanical properties of suspended structures at radio frequencies. Physica B: Condensed Matter, 2000, 280, 553-554.	2.7	3
153	Auf dem Weg zur â€žQuantenâ€Mechanikâ€œ: Nanomechanische Resonatoren dienen als schnelle Schalter und Frequenzgeber. Physik Journal, 2000, 56, 31-36.	0.1	3
154	Single-electron effects in highly doped polysilicon nanowires. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 15, 60-64.	2.7	3
155	Top-gated few-electron double quantum dot in Si/SiGe. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 520-523.	2.7	3
156	Direct observation of sub-threshold field emission from silicon nanomembranes. Journal of Applied Physics, 2011, 109, 124504.	2.5	3
157	Direct microwave transmission on single Î±-hemolysin pores. Applied Physics Letters, 2011, 99, 093105.	3.3	3
158	Mechanical Modulation of Phonon-Assisted Field Emission in a Silicon Nanomembrane Detector for Time-of-Flight Mass Spectrometry. Sensors, 2016, 16, 200.	3.8	3
159	Transition of a nanomechanical Sharvin oscillator towards the chaotic regime. New Journal of Physics, 2017, 19, 033033.	2.9	3
160	Flow characterization and patch clamp dose responses using jet microfluidics in a tubeless microfluidic device. Journal of Neuroscience Methods, 2017, 291, 182-189.	2.5	3
161	Culturing human iPSC-derived neural progenitor cells on nanowire arrays: mapping the impact of nanowire length and array pitch on proliferation, viability, and membrane deformation. Nanoscale, 2021, 13, 20052-20066.	5.6	3
162	Dispersive transition of transverse ultrasound in the paramagnetic phase of CeAl2. Journal of Low Temperature Physics, 1995, 99, 71-79.	1.4	2

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163	Critical current phase diagram of the heavy-fermion superconductor UPt3. Journal of Low Temperature Physics, 1996, 102, 349-358.	1.4	2
164	Evidence for quasi-classical transport of composite fermions in an inhomogeneous effective magnetic field. Semiconductor Science and Technology, 1996, 11, 1482-1487.	2.0	2
165	Electronâ€“nuclear spin transfer in quantum-dot networks. Nanotechnology, 2005, 16, S266-S272.	2.6	2
166	Shock waves in suspended low-dimensional electron gases. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1191-1193.	2.7	2
167	Spin relaxation in isotopically purified silicon quantum dots. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 639-642.	2.7	2
168	Guided Growth and Electrical Probing of Neurons on Arrays of Biofunctionalized GaAs/InGaAs Semiconductor Microtubes. Biophysical Journal, 2013, 104, 329a.	0.5	2
169	Modeling a radio-frequency single-electron-transistor scanning probe. Japanese Journal of Applied Physics, 2014, 53, 085001.	1.5	2
170	Synthetic neuronal circuits: Optically active semiconductor microtubes as remotely accessible sensors for action potentials. , 2015, , .		2
171	Stochastic model of nanomechanical electron shuttles and symmetry breaking. Physical Review E, 2016, 93, 063306.	2.1	2
172	Ion Selective Transport of Alkali Ions through a Polyelectrolyte Membrane. Advanced Materials Interfaces, 2020, 7, 2000419.	3.7	2
173	Polarization amplification by spin-doping in nanomagnetic/graphene hybrid systems. Physical Review Materials, 2021, 5, .	2.4	2
174	Direct Transfer of GaAs Microtube Arrays onto Transparent Substrates for Imaging Neuron Outgrowth. Soft Nanoscience Letters, 2013, 03, 79-82.	0.8	2
175	Radio Frequency Tank Circuit for Probing Planar Lipid Bilayers. Soft Nanoscience Letters, 2013, 03, 87-92.	0.8	2
176	Nuclear-induced dephasing and signatures of hyperfine effects in isotopically purified <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mmultiscripts><mml:mi mathvariant="normal">C</mml:mi><mml:mprescripts /><mml:none /><mml:mn>13</mml:mn></mml:mmultiscripts></mml:math> graphene. Physical Review B, 2022, 105, .	3.2	2
177	Silicon-based nanoelectronics and nanoelectromechanics. Superlattices and Microstructures, 2000, 27, 597-601.	3.1	1
178	Probing a single quantum dot by pulsed and continuous microwave radiation. Physica B: Condensed Matter, 2002, 314, 444-449.	2.7	1
179	Electron dynamics of a single quantum dot probed with wideband millimeter-wave spectroscopy. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 109-113.	2.7	1
180	Stochastic Resonance of Artificial Ion Channels inserted in Small Membrane Patches. AIP Conference Proceedings, 2005, , .	0.4	1

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181	Marshmallowing of nanopillar arrays by field emission. Journal of Applied Physics, 2010, 107, 054308.	2.5	1
182	P1–21: Field electron emission under Coulomb blockade in a suspended metallic island. , 2010, , .		1
183	High Bandwidth Resonant Radio Frequency Circuit for Lipid Bilayer Detection. Biophysical Journal, 2012, 102, 181a.	0.5	1
184	Ultra-stable glass microcraters for on-chip patch clamping. RSC Advances, 2014, 4, 39073-39076.	3.6	1
185	Tightly wrapped semiconductor-axon microtubes for probing hybrid networks: Modeling the capacitive coupling strength. Applied Physics Letters, 2015, 106, .	3.3	1
186	Optically active semiconductor nanopores for parallel molecule detection. Applied Physics Letters, 2016, 109, 223103.	3.3	1
187	Effects of electron confinement on the acoustoelectric current in suspended quantum point contacts. Applied Physics Letters, 2017, 110, 223102.	3.3	1
188	Photonic Materials: Lowâ€Temperature Mullite Formation in Ternary Oxide Coatings Deposited by ALD for Highâ€Temperature Applications (Adv. Mater. Interfaces 23/2017). Advanced Materials Interfaces, 2017, 4, 1770122.	3.7	1
189	3D Micro Scaffolds for Tailor-Made Three-Dimensional Neural Network Studies. Biophysical Journal, 2018, 114, 672a-673a.	0.5	1
190	Wireless Sensor-Actuator Network for Cell-Level Treatment Based on Protocol of Collision Segregation via Learning. IEEE Access, 2018, 6, 58967-58976.	4.2	1
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