Heiner Linke

List of Publications by Year
in descending order

217 papers	6,553 citations	81900 39 h-index	71685 76 g-index
219 all docs	219 docs citations	219 times ranked	5596 citing authors

#	Article	IF	Citations
1	Self-Propelled Leidenfrost Droplets. Physical Review Letters, 2006, 96, 154502.	7.8	438
2	Giant Acceleration of Free Diffusion by Use of Tilted Periodic Potentials. Physical Review Letters, 2001, 87, 010602.	7.8	395
3	Reversible Thermoelectric Nanomaterials. Physical Review Letters, 2005, 94, 096601.	7.8	312
4	Reversible Quantum Brownian Heat Engines for Electrons. Physical Review Letters, 2002, 89, 116801.	7.8	304
5	Experimental Tunneling Ratchets. Science, 1999, 286, 2314-2317.	12.6	276
6	Diffusion in tilted periodic potentials: Enhancement, universality, and scaling. Physical Review E, 2002, 65, 031104.	2.1	241
7	A quantum-dot heat engine operating close to the thermodynamic efficiency limits. Nature Nanotechnology, 2018, 13, 920-924.	31.5	201
8	Thermoelectric efficiency at maximum power in low-dimensional systems. Physical Review B, 2010, 82, .	3.2	183
9	Increasing thermoelectric performance using coherent transport. Physical Review B, 2011, 84, .	3.2	168
10	Ratches and Brownian motors: Basics, experiments and applications. Applied Physics A: Materials Science and Processing, 2002, 75, 167-167.	2.3	133
11	Parallel computation with molecular-motor-propelled agents in nanofabricated networks. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 2591-2596.	7.1	116
12	Large Thermoelectric Power Factor Enhancement Observed in InAs Nanowires. Nano Letters, 2013, 13, 4080-4086.	9.1	107
13	Nonlinear thermovoltage and thermocurrent in quantum dots. New Journal of Physics, 2013, 15, 105011.	2.9	104
14	A quantum dot ratchet: Experiment and theory. Europhysics Letters, 1998, 44, 341-347.	2.0	97
15	Thermal conductivity of indium arsenide nanowires with wurtzite and zinc blende phases. Physical Review B, 2011, 83, .	3.2	96
16	Influence of Quantum Interference on the Thermoelectric Properties of Molecular Junctions. Nano Letters, 2018, 18, 5666-5672.	9.1	93
17	Realization of a Feedback Controlled Flashing Ratchet. Physical Review Letters, 2008, 101, 220601.	7.8	91
18	Squaring the Circle in Peptide Assembly: From Fibers to Discrete Nanostructures by <i>de Novo</i> Design. Journal of the American Chemical Society, 2012, 134, 15457-15467.	13.7	87

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19	Quantum ratchets and quantum heat pumps. Applied Physics A: Materials Science and Processing, 2002, 75, 237-246.	2.3	85
20	Power optimization in thermionic devices. Journal Physics D: Applied Physics, 2005, 38, 2051-2054.	2.8	80
21	Concept study for a high-efficiency nanowire based thermoelectric. Nanotechnology, 2006, 17, S338-S343.	2.6	78
22	Thermal Conductance of InAs Nanowire Composites. Nano Letters, 2009, 9, 4484-4488.	9.1	76
23	Performance characteristics of Brownian motors. Chaos, 2005, 15, 026111.	2.5	71
24	Optical Trapping of Gold Nanoparticles in Air. Nano Letters, 2015, 15, 4713-4719.	9.1	71
25	Lineshape of the thermopower of quantum dots. New Journal of Physics, 2012, 14, 033041.	2.9	60
26	Single-polymer Brownian motor: A simulation study. Physical Review E, 2006, 73, 011909.	2.1	59
27	Electron spin resonance investigations of oxidized porous silicon. Applied Physics Letters, 1993, 63, 1930-1932.	3.3	58
28	Evolution of Fractal Patterns during a Classical-Quantum Transition. Physical Review Letters, 2001, 87, 036802.	7.8	57
29	Multidirectional sorting modes in deterministic lateral displacement devices. Physical Review E, 2008, 78, 046304.	2.1	55
30	Effect of time delay on feedback control of a flashing ratchet. Europhysics Letters, 2008, 81, 10002.	2.0	55
31	Experimental Investigation of the Breakdown of the Onsager-Casimir Relations. Physical Review Letters, 2006, 96, 116801.	7.8	52
32	Measuring Temperature Gradients over Nanometer Length Scales. Nano Letters, 2009, 9, 779-783.	9.1	51
33	Mechanochemical model for myosin V. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18261-18266.	7.1	49
34	Asymmetric nonlinear conductance of quantum dots with broken inversion symmetry. Physical Review B, 2000, 61, 15914-15926.	3.2	47
35	Quantum Szilard Engine with Attractively Interacting Bosons. Physical Review Letters, 2018, 120, 100601.	7.8	46
36	Symmetry of Two-Terminal Nonlinear Electric Conduction. Physical Review Letters, 2004, 92, 046803.	7.8	45

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37	Quantum, cyclic, and particle-exchange heat engines. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 390-398.	2.7	41
38	Three-Dimensional Tracking of Small Aquatic Organisms Using Fluorescent Nanoparticles. PLoS ONE, 2013, 8, e78498.	2.5	40
39	Thermoelectric performance of classical topological insulator nanowires. Semiconductor Science and Technology, 2015, 30, 015015.	2.0	40
40	Dynamic Guiding of Motor-Driven Microtubules on Electrically Heated, Smart Polymer Tracks. Nano Letters, 2013, 13, 3434-3438.	9.1	39
41	Thermoelectric Characterization of the Kondo Resonance in Nanowire Quantum Dots. Physical Review Letters, 2018, 121, 206801.	7.8	39
42	Ultrafast molecular motor driven nanoseparation and biosensing. Biosensors and Bioelectronics, 2013, 48, 145-152.	10.1	37
43	Classical and quantum dynamics of electrons in open equilateral triangular billiards. Physical Review B, 1998, 57, 12306-12313.	3.2	36
44	The fabrication of dense and uniform InAs nanowire arrays. Nanotechnology, 2009, 20, 225304.	2.6	36
45	InAs Nanowire Transistors with Multiple, Independent Wrap-Gate Segments. Nano Letters, 2015, 15, 2836-2843.	9.1	36
46	The Tumbleweed: Towards a synthetic protein motor. HFSP Journal, 2009, 3, 204-212.	2.5	35
47	Experimental verification of reciprocity relations in quantum thermoelectric transport. Physical Review B, 2014, 90, .	3.2	34
48	Conduction Band Offset and Polarization Effects in InAs Nanowire Polytype Junctions. Nano Letters, 2017, 17, 902-908.	9.1	34
49	Intersubband Quantum Disc-in-Nanowire Photodetectors with Normal-Incidence Response in the Long-Wavelength Infrared. Nano Letters, 2018, 18, 365-372.	9.1	34
50	Reversible electronâ€“hole separation in a hot carrier solar cell. New Journal of Physics, 2015, 17, 095004.	2.9	33
51	Fluid and Highly Curved Model Membranes on Vertical Nanowire Arrays. Nano Letters, 2014, 14, 4286-4292.	9.1	32
52	Molecular Motor Propelled Filaments Reveal Light-Guiding in Nanowire Arrays for Enhanced Biosensing. Nano Letters, 2014, 14, 737-742.	9.1	32
53	Molecular Motor Transport through Hollow Nanowires. Nano Letters, 2014, 14, 3041-3046.	9.1	32
54	Bipolar Photothermoelectric Effect Across Energy Filters in Single Nanowires. Nano Letters, 2017, 17, 4055-4060.	9.1	32

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55	Mechanical coupling in flashing ratchets. Physical Review E, 2006, 73, 051106.	2.1	31
56	Feedback control in flashing ratchets. Annalen Der Physik, 2008, 17, 115-129.	2.4	30
57	Biased motion and molecular motor properties of bipedal spiders. Physical Review E, 2010, 81, 021106.	2.1	30
58	Thermally driven ballistic rectifier. Physical Review B, 2012, 85, .	3.2	30
59	Thermoelectric Power Factor Limit of a 1D Nanowire. Physical Review Letters, 2018, 120, 177703.	7.8	30
60	Time-dependent motor properties of multipedal molecular spiders. Physical Review E, 2011, 84, 031111.	2.1	29
61	Nanowires for Biosensing: Lightguiding of Fluorescence as a Function of Diameter and Wavelength. Nano Letters, 2018, 18, 4796-4802.	9.1	29
62	Signatures of Wigner localization in epitaxially grown nanowires. Physical Review B, 2011, 83, .	3.2	28
63	Electron-Beam Patterning of Polymer Electrolyte Films To Make Multiple Nanoscale Gates for Nanowire Transistors. Nano Letters, 2014, 14, 94-100.	9.1	27
64	Application of microwave detection of the Shubnikovâ€"de Haas effect in twoâ€dimensional systems. Journal of Applied Physics, 1993, 73, 7533-7542.	2.5	26
65	Stability of classical electron orbits in triangular electron billiards. Physical Review B, 1997, 56, 1440-1446.	3.2	26
66	Unified model of fractal conductance fluctuations for diffusive and ballistic semiconductor devices. Physical Review B, 2006, 73, .	3.2	26
67	Experiments on the thermoelectric properties of quantum dots. Comptes Rendus Physique, 2016, 17, 1096-1108.	0.9	26
68	Optimal power and efficiency of single quantum dot heat engines: Theory and experiment. Physical Review B, 2019, 99, .	3.2	26
69	Enhanced Zeeman splitting in Ga0.25In0.75As quantum point contacts. Applied Physics Letters, 2008, 93, 012105.	3.3	25
70	Hot-carrier optoelectronic devices based on semiconductor nanowires. Applied Physics Reviews, 2021, 8, .	11.3	24
71	A Nanoscale Standard for the Seebeck Coefficient. Nano Letters, 2011, 11, 4679-4681.	9.1	22
72	Antibodies Covalently Immobilized on Actin Filaments for Fast Myosin Driven Analyte Transport. PLoS ONE, 2012, 7, e46298.	2.5	22

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73	Molecular motor efficiency is maximized in the presence of both power-stroke and rectification through feedback. New Journal of Physics, 2015, 17, 065011.	2.9	22
74	Biosensing using arrays of vertical semiconductor nanowires: mechanosensing and biomarker detection. Nanotechnology, 2019, 30, 214003.	2.6	21
75	Hot-Carrier Extraction in Nanowire-Nanoantenna Photovoltaic Devices. Nano Letters, 2020, 20, 4064-4072.	9.1	21
76	Electron-electron interaction in a narrow, disordered electron gas in nonequilibrium. Physical Review B, 1997, 55, 4061-4064.	3.2	20
77	Focus on thermoelectric effects in nanostructures. New Journal of Physics, 2014, 16, 110201.	2.9	20
78	Field-orientation dependence of the Zeeman spin splitting in (In,Ga)As quantum point contacts. Physical Review B, 2010, 81, .	3.2	18
79	Pumping heat with quantum ratchets. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 11, 281-286.	2.7	17
80	Nonlinear thermoelectric response due to energy-dependent transport properties of a quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 82, 34-38.	2.7	17
81	Single-nanowire, low-bandgap hot carrier solar cells with tunable open-circuit voltage. Nanotechnology, 2017, 28, 434001.	2.6	17
82	Controlled Surface Silanization for Actin-Myosin Based Nanodevices and Biocompatibility of New Polymer Resists. Langmuir, 2018, 34, 8777-8784.	3.5	17
83	Composition dependence of the inâ€plane effective mass in latticeâ€mismatched, strained Ga1â^'xInxAs/InP single quantum wells. Applied Physics Letters, 1993, 63, 657-659.	3.3	16
84	Quantum-dot thermometry. Applied Physics Letters, 2007, 91, 252114.	3.3	16
85	Construction and Characterization of Kilobasepair Densely Labeled Peptide-DNA. Biomacromolecules, 2014, 15, 4065-4072.	5.4	16
86	Time-Resolved X-ray Diffraction Investigation of the Modified Phonon Dispersion in InSb Nanowires. Nano Letters, 2014, 14, 541-546.	9.1	16
87	Environmental coupling and phase breaking in open quantum dots. Journal of Physics Condensed Matter, 1998, 10, L55-L61.	1.8	15
88	Thermal resistance of a nanoscale point contact to an indium arsenide nanowire. Applied Physics Letters, 2011, 99, 063110.	3.3	15
89	Characterization of Ambipolar GaSb/InAs Coreâ€"Shell Nanowires by Thermovoltage Measurements. ACS Nano, 2015, 9, 7033-7040.	14.6	15
90	Three key questions on fractal conductance fluctuations: Dynamics, quantization, and coherence. Physical Review B, 2004, 70, .	3.2	14

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91	Control and understanding of kink formation in InAsâ€“InP heterostructure nanowires. Nanotechnology, 2013, 24, 345601.	2.6	14
92	Using Polymer Electrolyte Gates to Setâ€andâ€Freeze Threshold Voltage and Local Potential in Nanowireâ€based Devices and Thermoelectrics. Advanced Functional Materials, 2015, 25, 255-262.	14.9	14
93	Phase Breaking as a Probe of the Intrinsic Level Spectrum of Open Quantum Dots. Physica Status Solidi (B): Basic Research, 1997, 204, 314-317.	1.5	13
94	Dependence of fractal conductance fluctuations on soft-wall profile in a double-layer semiconductor billiard. Applied Physics Letters, 2002, 80, 4381-4383.	3.3	13
95	Confinement properties of a<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mi mathvariant="normal">Ga</mml:mi><mml:mn>0.25</mml:mn></mml:msub><mml:msub><mml:mi mathvariant="normal">In</mml:mi><mml:mn>0.75</mml:mn></mml:msub><mml:mi mathvariant="normal">As</mml:mi><mml:mo>âˆ•</mml:mo><mml:mi mathvariant="normal">In</mml:mi><mml:mi mathvariant="normal">P</mml:mi></mml:mrow></mml:ma	3.2	13
96	Design and Construction of the Lawnmower, An Artificial Burnt-Bridges Motor. IEEE Transactions on Nanobioscience, 2015, 14, 305-312.	3.3	13
97	Regeneration of Assembled, Molecular-Motor-Based Bionanodevices. Nano Letters, 2019, 19, 7155-7163.	9.1	13
98	Electron Spin Resonance Investigations of Rapid Thermal Oxidized Porous Silicon. Materials Research Society Symposia Proceedings, 1992, 283, 251.	0.1	12
99	Spin-resonance determination of the electron effectivegvalue ofIn0.53Ga0.47As. Physical Review B, 1996, 54, 8551-8555.	3.2	12
100	A quantum dot ratchet: Experiment and theory. Europhysics Letters, 1999, 45, 406-406.	2.0	12
101	Fluidic switching in nanochannels for the control of Inchworm: a synthetic biomolecular motor with a power stroke. Nanoscale, 2014, 6, 15008-15019.	5.6	12
102	Achieving short high-quality gate-all-around structures for horizontal nanowire field-effect transistors. Nanotechnology, 2019, 30, 064001.	2.6	12
103	Synthetic biology approaches to dissecting linear motor protein function: towards the design and synthesis of artificial autonomous protein walkers. Biophysical Reviews, 2020, 12, 1041-1054.	3.2	12
104	Chaos in Quantum Ratchets. Physica Scripta, 2001, T90, 54.	2.5	11
105	Heat flow in InAs/InP heterostructure nanowires. Physical Review B, 2012, 86, .	3.2	11
106	Is it the boundaries or disorder that dominates electron transport in semiconductor `billiards'?. Fortschritte Der Physik, 2013, 61, 332-347.	4.4	11
107	Tracking Actomyosin at Fluorescence Check Points. Scientific Reports, 2013, 3, 1092.	3.3	11
108	Fully tunable, non-invasive thermal biasing of gated nanostructures suitable for low-temperature studies. Nanotechnology, 2014, 25, 385704.	2.6	11

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109	Construction of a Chassis for a Tripartite Protein-Based Molecular Motor. ACS Synthetic Biology, 2017, 6, 1096-1102.	3.8	11
110	Single-Molecule Detection with Lightguiding Nanowires: Determination of Protein Concentration and Diffusivity in Supported Lipid Bilayers. Nano Letters, 2019, 19, 6182-6191.	9.1	11
111	Prolonged function and optimization of actomyosin motility for upscaled network-based biocomputation. New Journal of Physics, 2021, 23, 085005.	2.9	11
112	A classical Master equation approach to modeling an artificial protein motor. Chemical Physics, 2010, 375, 479-485.	1.9	10
113	Thermoelectric Characterization of Electronic Properties of GaMnAs Nanowires. Journal of Nanotechnology, 2012, 2012, 1-5.	3.4	10
114	Controlled microfluidic switching in arbitrary time-sequences with low drag. Lab on A Chip, 2013, 13, 2389.	6.0	10
115	Hot-carrier separation in heterostructure nanowires observed by electron-beam induced current. Nanotechnology, 2020, 31, 394004.	2.6	10
116	Effects of Lead Particles on the Magnetoresistance of a Two-Dimensional and Quasi-One-Dimensional Electron Gas. Japanese Journal of Applied Physics, 1995, 34, 4575-4578.	1.5	9
117	Non-Equilibrium Electrons in a Ballistic Quantum Dot. Physica Status Solidi (B): Basic Research, 1997, 204, 318-321.	1.5	9
118	Symmetry of magnetoconductance fluctuations of quantum dots in the nonlinear response regime. Physical Review B, 2006, 73, .	3.2	9
119	Tuning the performance of an artificial protein motor. Physical Review E, 2011, 84, 031922.	2.1	9
120	Nanowire-Imposed Geometrical Control in Studies of Actomyosin Motor Function. IEEE Transactions on Nanobioscience, 2015, 14, 289-297.	3.3	9
121	Semiconductor nanowire array for transparent photovoltaic applications. Applied Physics Letters, 2021, 118, 191107.	3.3	9
122	Physical requirements for scaling up network-based biocomputation. New Journal of Physics, 2021, 23, 105004.	2.9	9
123	Molecular motor-driven filament transport across three-dimensional, polymeric micro-junctions. New Journal of Physics, 2021, 23, 125002.	2.9	9
124	Damage induced by plasma etching: On the correlation of results from photoluminescence and transport characterization techniques. Applied Physics Letters, 1995, 66, 1403-1405.	3.3	8
125	Probing the sensitivity of electron wave interference to disorder-induced scattering in solid-state devices. Physical Review B, 2012, 85, .	3.2	8
126	Motor properties from persistence: a linear molecular walker lacking spatial and temporal asymmetry. New Journal of Physics, 2015, 17, 055017.	2.9	8

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127	Fluorescence Signal Enhancement in Antibody Microarrays Using Lightguiding Nanowires. Nanomaterials, 2021, 11, 227.	4.1	8
128	Quantum ratchets act as heat pumps. Physica B: Condensed Matter, 2002, 314, 464-468.	2.7	7
129	Design and Construction of a One-Dimensional DNA Track for an Artificial Molecular Motor. Journal of Nanomaterials, 2012, 2012, 1-10.	2.7	7
130	Design of network-based biocomputation circuits for the exact cover problem. New Journal of Physics, 2021, 23, 085004.	2.9	7
131	Through the Eyes of Creators: Observing Artificial Molecular Motors. ACS Nanoscience Au, 2022, 2, 140-159.	4.8	7
132	Novel applications of contactless characterization techniques in epitaxial crystals and quantum well structures. Journal of Crystal Growth, 1993, 128, 567-570.	1.5	6
133	Determination of the iron acceptor level in CdTe. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 1993, 16, 243-245.	3.5	6
134	Carrierâ€modulated, microwaveâ€detected Shubnikovâ€“de Haas oscillations in twoâ€dimensional systems. Applied Physics Letters, 1993, 62, 2725-2727.	3.3	6
135	Phase breaking of nonequilibrium electrons in a ballistic quantum dot. Physical Review B, 1997, 56, 14937-14940.	3.2	6
136	Voltage and temperature limits for the operation of a quantum dot ratchet. Physica B: Condensed Matter, 1999, 272, 61-63.	2.7	6
137	Phonon Transport and Thermoelectricity in Defect-Engineered InAs Nanowires. Materials Research Society Symposia Proceedings, 2012, 1404, 36.	0.1	6
138	Nanowire photodetectors with embedded quantum heterostructures for infrared detection. Infrared Physics and Technology, 2019, 96, 209-212.	2.9	6
139	The influence of confining wall profile on quantum interference effects in etched Ga0.25In0.75As/InP billiards. Superlattices and Microstructures, 2003, 34, 179-184.	3.1	5
140	Intrinsic Seebeck Coefficient of Quantum Dots. Journal of Electronic Materials, 2009, 38, 1163-1165.	2.2	5
141	Implementing an Insect Brain Computational Circuit Using IIIâ€“V Nanowire Components in a Single Shared Waveguide Optical Network. ACS Photonics, 2020, 7, 2787-2798.	6.6	5
142	Dissipation Reduction and Information-to-Measurement Conversion in DNA Pulling Experiments with Feedback Protocols. Physical Review X, 2021, 11, .	8.9	5
143	The bar-hinge motor: a synthetic protein design exploiting conformational switching to achieve directional motility. New Journal of Physics, 2019, 21, 013002.	2.9	4
144	Design and development of nanoimprint-enabled structures for molecular motor devices. Materials Research Express, 2019, 6, 025057.	1.6	4

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145	A Review of Fractal Conductance Fluctuations in Ballistic Semiconductor Devices. , 2003, , 277-316.		4
146	Solving Exact Cover Instances with Molecular-Motor-Powered Network-Based Biocomputation. ACS Nanoscience Au, 2022, 2, 396-403.	4.8	4
147	The voltage limitation for phase coherence experiments: non-equilibrium effects versus Joule heating. Superlattices and Microstructures, 1996, 20, 441-446.	3.1	3
148	PHYSICS: Coherent Power Booster. Science, 2003, 299, 841-842.	12.6	3
149	Nanoscale Thermometry with a Quantum Dot. Journal of Low Temperature Physics, 2009, 154, 161-171.	1.4	3
150	Optimization of a self-closing effect to produce nanochannels with top slits in fused silica. Journal of Vacuum Science and Technology B:Nanotechnology and Microelectronics, 2012, 30, 06FF09.	1.2	3
151	Reply to Einarsson: The computational power of parallel network exploration with many bioagents. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3188.	7.1	3
152	Solving the subset sum problem with a nonideal biological computer. New Journal of Physics, 2021, 23, 095007.	2.9	3
153	Electron Ratchetsâ€"Nonlinear Transport in Semiconductor Dot and Antidot Structures. , 2003, , 317-361.		3
154	Approach to combine electron-beam lithography and two-photon polymerization for enhanced nano-channels in network-based biocomputation devices. , 2018, , .		3
155	Optical-Beam-Induced Current in InAs/InP Nanowires for Hot-Carrier Photovoltaics. ACS Applied Energy Materials, 2022, 5, 7728-7734.	5.1	3
156	Enhanced Optical Biosensing by Aerotaxy Ga(As)P Nanowire Platforms Suitable for Scalable Production. ACS Applied Nano Materials, 0, , .	5.0	3
157	Iron acceptor level in ZnTe. Applied Physics Letters, 1992, 61, 2911-2913.	3.3	2
158	The Influence of Process-Induced Surface Defects on Luminescence and Transport Properties of Low-Dimensional Structures. Materials Science Forum, 1994, 143-147, 1541-1546.	0.3	2
159	Nonsymmetric conduction induced by the shape of electron billiards. Semiconductor Science and Technology, 1998, 13, A27-A29.	2.0	2
160	Quantum conductance fluctuations in semiconductor devices. Current Applied Physics, 2008, 8, 332-335.	2.4	2
161	Determining a temperature differential across a quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1605-1607.	2.7	2
162	Carrier density saturation in a heterostructure. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1754-1756.	2.7	2

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163	Investigation of electron wave function hybridization in Ga0.25In0.75As/InP arrays. Applied Physics Letters, 2009, 95, 182105.	3.3	2
164	Effectiveness of beads for tracking small-scale molecular motor dynamics. Physical Review E, 2011, 84, 021907.	2.1	2
165	Thermopower as a tool to investigate many-body effects in quantum systems. Applied Physics Letters, 2014, 105, 083105.	3.3	2
166	Surface nanostructures for fluorescence probing of supported lipid bilayers on reflective substrates. Nanoscale, 2015, 7, 18020-18024.	5.6	2
167	Prospects for single-molecule electrostatic detection in molecular motor gliding motility assays. New Journal of Physics, 2021, 23, 065003.	2.9	2
168	Tuning up Maxwellâ€™s demon. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, e2108218118.	7.1	2
169	Semiconductor Billiards â€“ a Controlled Environment to Study Fractals. , 2001, , .		2
170	Randomly distributed ultrasmall metal particles on the surface of high mobility 2DEG samples. Superlattices and Microstructures, 1994, 15, 367.	3.1	1
171	Electron quantum ratchets. Microelectronic Engineering, 1999, 47, 265-267.	2.4	1
172	Von DÃmonen und Elektronen: In Quantenratschen flieÃŸen Elektronen hoher und niedriger Energie in entgegengesetzte Richtungen. Physik Journal, 2000, 56, 45-47.	0.1	1
173	Reversible Electron Heat Engines. AIP Conference Proceedings, 2002, , .	0.4	1
174	The dependence of fractal conductance fluctuations on soft-wall profile in a double-2DEG billiard. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 841-844.	2.7	1
175	Discrete energy level spectrum dependence of fractal conductance fluctuations in semiconductor billiards. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 683-686.	2.7	1
176	Energy-specific equilibrium in nanowires for efficient thermoelectric power generation. Materials Research Society Symposia Proceedings, 2005, 886, 1.	0.1	1
177	A novel quantum interference probe of the energy spectrum of coupled nanodevices. Current Applied Physics, 2006, 6, 541-544.	2.4	1
178	Visualization of Thermally Actuated Pumping in the Leidenfrost Regime by Surface Asymmetry. Journal of Heat Transfer, 2009, 131, .	2.1	1
179	Measuring hybridization in GaInAs/InP electron billiard arrays. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1205-1207.	2.7	1
180	Mesoscopic Thermovoltage Measurement Design. , 2011, , .		1

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181	Toward 3D Integration of 1D Conductors: Junctions of InAs Nanowires. Journal of Nanomaterials, 2011, 2011, 1-5.	2.7	1
182	Fabrication of bottle-shaped nanochannels in fused silica using a self-closing effect. Microelectronic Engineering, 2012, 97, 173-176.	2.4	1
183	Experimental Quantum Ratchets based on Solid State Nanostructures. Australian Journal of Physics, 1999, 52, 895.	0.6	1
184	Semiconductor Billiards ? a Controlled Environment to Study Fractals. Physica Scripta, 2001, T90, 41.	2.5	1
185	Contact-Free Determination of Scattering Times in Heterojunction Device Structures. Materials Research Society Symposia Proceedings, 1992, 281, 115.	0.1	0
186	Effects of Dry Etching and Hydrogen Passivation on Transport Properties and Photoluminescence of GaAs/AlGaAs Heterostructures. Materials Research Society Symposia Proceedings, 1993, 326, 85.	0.1	0
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188	Triangular ballistic quantum dots: classical, semiclassical and wave mechanical electron dynamics. Semiconductor Science and Technology, 1998, 13, A24-A26.	2.0	0
189	Temperature and size dependence of fractal MCF in semiconductor billiards. Microelectronic Engineering, 2000, 51-52, 241-247.	2.4	0
190	<title>Ratchets: muscles, molecules, and quantum heat pumps</title>. , 2001, , .		0
191	Generic fractal behaviour of ballistic devices. , 0, , .		0
192	The dependence of fractal conductance fluctuations on semiconductor billiard parameters. Physica B: Condensed Matter, 2002, 314, 477-480.	2.7	0
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194	Geometry-independence of fractal ballistic processes. Physica E: Low-Dimensional Systems and Nanostructures, 2003, 19, 225-229.	2.7	0
195	Applications of Brownian motors. , 2003, , .		0
196	Fractal Study of Coupling Transitions in Ballistic Quantum-Dot Arrays. AIP Conference Proceedings, 2005, , .	0.4	0
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