# Heiner Linke

List of Publications by Year
in descending order

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|---|---|---|---|
| 217 papers | 6,553 citations | 81743<br>39 h-index | 71532<br>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. | 2.9 | 438 |
| 2 | Giant Acceleration of Free Diffusion by Use of Tilted Periodic Potentials. Physical Review Letters, 2001, 87, 010602. | 2.9 | 395 |
| 3 | Reversible Thermoelectric Nanomaterials. Physical Review Letters, 2005, 94, 096601. | 2.9 | 312 |
| 4 | Reversible Quantum Brownian Heat Engines for Electrons. Physical Review Letters, 2002, 89, 116801. | 2.9 | 304 |
| 5 | Experimental Tunneling Ratchets. Science, 1999, 286, 2314-2317. | 6.0 | 276 |
| 6 | Diffusion in tilted periodic potentials: Enhancement, universality, and scaling. Physical Review E, 2002, 65, 031104. | 0.8 | 241 |
| 7 | A quantum-dot heat engine operating close to the thermodynamic efficiency limits. Nature Nanotechnology, 2018, 13, 920-924. | 15.6 | 201 |
| 8 | Thermoelectric efficiency at maximum power in low-dimensional systems. Physical Review B, 2010, 82, . | 1.1 | 183 |
| 9 | Increasing thermoelectric performance using coherent transport. Physical Review B, 2011, 84, . | 1.1 | 168 |
| 10 | Ratches and Brownian motors: Basics, experiments and applications. Applied Physics A: Materials Science and Processing, 2002, 75, 167-167. | 1.1 | 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. | 3.3 | 116 |
| 12 | Large Thermoelectric Power Factor Enhancement Observed in InAs Nanowires. Nano Letters, 2013, 13, 4080-4086. | 4.5 | 107 |
| 13 | Nonlinear thermovoltage and thermocurrent in quantum dots. New Journal of Physics, 2013, 15, 105011. | 1.2 | 104 |
| 14 | A quantum dot ratchet: Experiment and theory. Europhysics Letters, 1998, 44, 341-347. | 0.7 | 97 |
| 15 | Thermal conductivity of indium arsenide nanowires with wurtzite and zinc blende phases. Physical Review B, 2011, 83, . | 1.1 | 96 |
| 16 | Influence of Quantum Interference on the Thermoelectric Properties of Molecular Junctions. Nano Letters, 2018, 18, 5666-5672. | 4.5 | 93 |
| 17 | Realization of a Feedback Controlled Flashing Ratchet. Physical Review Letters, 2008, 101, 220601. | 2.9 | 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. | 6.6 | 87 |

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| 19 | Quantum ratchets and quantum heat pumps. Applied Physics A: Materials Science and Processing, 2002, 75, 237-246. | 1.1 | 85 |
| 20 | Power optimization in thermionic devices. Journal Physics D: Applied Physics, 2005, 38, 2051-2054. | 1.3 | 80 |
| 21 | Concept study for a high-efficiency nanowire based thermoelectric. Nanotechnology, 2006, 17, S338-S343. | 1.3 | 78 |
| 22 | Thermal Conductance of InAs Nanowire Composites. Nano Letters, 2009, 9, 4484-4488. | 4.5 | 76 |
| 23 | Performance characteristics of Brownian motors. Chaos, 2005, 15, 026111. | 1.0 | 71 |
| 24 | Optical Trapping of Gold Nanoparticles in Air. Nano Letters, 2015, 15, 4713-4719. | 4.5 | 71 |
| 25 | Lineshape of the thermopower of quantum dots. New Journal of Physics, 2012, 14, 033041. | 1.2 | 60 |
| 26 | Single-polymer Brownian motor: A simulation study. Physical Review E, 2006, 73, 011909. | 0.8 | 59 |
| 27 | Electron spin resonance investigations of oxidized porous silicon. Applied Physics Letters, 1993, 63, 1930-1932. | 1.5 | 58 |
| 28 | Evolution of Fractal Patterns during a Classical-Quantum Transition. Physical Review Letters, 2001, 87, 036802. | 2.9 | 57 |
| 29 | Multidirectional sorting modes in deterministic lateral displacement devices. Physical Review E, 2008, 78, 046304. | 0.8 | 55 |
| 30 | Effect of time delay on feedback control of a flashing ratchet. Europhysics Letters, 2008, 81, 10002. | 0.7 | 55 |
| 31 | Experimental Investigation of the Breakdown of the Onsager-Casimir Relations. Physical Review Letters, 2006, 96, 116801. | 2.9 | 52 |
| 32 | Measuring Temperature Gradients over Nanometer Length Scales. Nano Letters, 2009, 9, 779-783. | 4.5 | 51 |
| 33 | Mechanochemical model for myosin V. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18261-18266. | 3.3 | 49 |
| 34 | Asymmetric nonlinear conductance of quantum dots with broken inversion symmetry. Physical Review B, 2000, 61, 15914-15926. | 1.1 | 47 |
| 35 | Quantum Szilard Engine with Attractively Interacting Bosons. Physical Review Letters, 2018, 120, 100601. | 2.9 | 46 |
| 36 | Symmetry of Two-Terminal Nonlinear Electric Conduction. Physical Review Letters, 2004, 92, 046803. | 2.9 | 45 |

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| 37 | Quantum, cyclic, and particle-exchange heat engines. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 29, 390-398. | 1.3 | 41 |
| 38 | Three-Dimensional Tracking of Small Aquatic Organisms Using Fluorescent Nanoparticles. PLoS ONE, 2013, 8, e78498. | 1.1 | 40 |
| 39 | Thermoelectric performance of classical topological insulator nanowires. Semiconductor Science and Technology, 2015, 30, 015015. | 1.0 | 40 |
| 40 | Dynamic Guiding of Motor-Driven Microtubules on Electrically Heated, Smart Polymer Tracks. Nano Letters, 2013, 13, 3434-3438. | 4.5 | 39 |
| 41 | Thermoelectric Characterization of the Kondo Resonance in Nanowire Quantum Dots. Physical Review Letters, 2018, 121, 206801. | 2.9 | 39 |
| 42 | Ultrafast molecular motor driven nanoseparation and biosensing. Biosensors and Bioelectronics, 2013, 48, 145-152. | 5.3 | 37 |
| 43 | Classical and quantum dynamics of electrons in open equilateral triangular billiards. Physical Review B, 1998, 57, 12306-12313. | 1.1 | 36 |
| 44 | The fabrication of dense and uniform InAs nanowire arrays. Nanotechnology, 2009, 20, 225304. | 1.3 | 36 |
| 45 | InAs Nanowire Transistors with Multiple, Independent Wrap-Gate Segments. Nano Letters, 2015, 15, 2836-2843. | 4.5 | 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, . | 1.1 | 34 |
| 48 | Conduction Band Offset and Polarization Effects in InAs Nanowire Polytype Junctions. Nano Letters, 2017, 17, 902-908. | 4.5 | 34 |
| 49 | Intersubband Quantum Disc-in-Nanowire Photodetectors with Normal-Incidence Response in the Long-Wavelength Infrared. Nano Letters, 2018, 18, 365-372. | 4.5 | 34 |
| 50 | Reversible electronâ€“hole separation in a hot carrier solar cell. New Journal of Physics, 2015, 17, 095004. | 1.2 | 33 |
| 51 | Fluid and Highly Curved Model Membranes on Vertical Nanowire Arrays. Nano Letters, 2014, 14, 4286-4292. | 4.5 | 32 |
| 52 | Molecular Motor Propelled Filaments Reveal Light-Guiding in Nanowire Arrays for Enhanced Biosensing. Nano Letters, 2014, 14, 737-742. | 4.5 | 32 |
| 53 | Molecular Motor Transport through Hollow Nanowires. Nano Letters, 2014, 14, 3041-3046. | 4.5 | 32 |
| 54 | Bipolar Photothermoelectric Effect Across Energy Filters in Single Nanowires. Nano Letters, 2017, 17, 4055-4060. | 4.5 | 32 |

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| 55 | Mechanical coupling in flashing ratchets. Physical Review E, 2006, 73, 051106. | 0.8 | 31 |
| 56 | Feedback control in flashing ratchets. Annalen Der Physik, 2008, 17, 115-129. | 0.9 | 30 |
| 57 | Biased motion and molecular motor properties of bipedal spiders. Physical Review E, 2010, 81, 021106. | 0.8 | 30 |
| 58 | Thermally driven ballistic rectifier. Physical Review B, 2012, 85, . | 1.1 | 30 |
| 59 | Thermoelectric Power Factor Limit of a 1D Nanowire. Physical Review Letters, 2018, 120, 177703. | 2.9 | 30 |
| 60 | Time-dependent motor properties of multipedal molecular spiders. Physical Review E, 2011, 84, 031111. | 0.8 | 29 |
| 61 | Nanowires for Biosensing: Lightguiding of Fluorescence as a Function of Diameter and Wavelength. Nano Letters, 2018, 18, 4796-4802. | 4.5 | 29 |
| 62 | Signatures of Wigner localization in epitaxially grown nanowires. Physical Review B, 2011, 83, . | 1.1 | 28 |
| 63 | Electron-Beam Patterning of Polymer Electrolyte Films To Make Multiple Nanoscale Gates for Nanowire Transistors. Nano Letters, 2014, 14, 94-100. | 4.5 | 27 |
| 64 | Application of microwave detection of the Shubnikovâ€"de Haas effect in twoâ€dimensional systems. Journal of Applied Physics, 1993, 73, 7533-7542. | 1.1 | 26 |
| 65 | Stability of classical electron orbits in triangular electron billiards. Physical Review B, 1997, 56, 1440-1446. | 1.1 | 26 |
| 66 | Unified model of fractal conductance fluctuations for diffusive and ballistic semiconductor devices. Physical Review B, 2006, 73, . | 1.1 | 26 |
| 67 | Experiments on the thermoelectric properties of quantum dots. Comptes Rendus Physique, 2016, 17, 1096-1108. | 0.3 | 26 |
| 68 | Optimal power and efficiency of single quantum dot heat engines: Theory and experiment. Physical Review B, 2019, 99, . | 1.1 | 26 |
| 69 | Enhanced Zeeman splitting in Ga0.25In0.75As quantum point contacts. Applied Physics Letters, 2008, 93, 012105. | 1.5 | 25 |
| 70 | Hot-carrier optoelectronic devices based on semiconductor nanowires. Applied Physics Reviews, 2021, 8, . | 5.5 | 24 |
| 71 | A Nanoscale Standard for the Seebeck Coefficient. Nano Letters, 2011, 11, 4679-4681. | 4.5 | 22 |
| 72 | Antibodies Covalently Immobilized on Actin Filaments for Fast Myosin Driven Analyte Transport. PLoS ONE, 2012, 7, e46298. | 1.1 | 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. | 1.2 | 22 |
| 74 | Biosensing using arrays of vertical semiconductor nanowires: mechanosensing and biomarker detection. Nanotechnology, 2019, 30, 214003. | 1.3 | 21 |
| 75 | Hot-Carrier Extraction in Nanowire-Nanoantenna Photovoltaic Devices. Nano Letters, 2020, 20, 4064-4072. | 4.5 | 21 |
| 76 | Electron-electron interaction in a narrow, disordered electron gas in nonequilibrium. Physical Review B, 1997, 55, 4061-4064. | 1.1 | 20 |
| 77 | Focus on thermoelectric effects in nanostructures. New Journal of Physics, 2014, 16, 110201. | 1.2 | 20 |
| 78 | Field-orientation dependence of the Zeeman spin splitting in (In,Ga)As quantum point contacts. Physical Review B, 2010, 81, . | 1.1 | 18 |
| 79 | Pumping heat with quantum ratchets. Physica E: Low-Dimensional Systems and Nanostructures, 2001, 11, 281-286. | 1.3 | 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. | 1.3 | 17 |
| 81 | Single-nanowire, low-bandgap hot carrier solar cells with tunable open-circuit voltage. Nanotechnology, 2017, 28, 434001. | 1.3 | 17 |
| 82 | Controlled Surface Silanization for Actin-Myosin Based Nanodevices and Biocompatibility of New Polymer Resists. Langmuir, 2018, 34, 8777-8784. | 1.6 | 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. | 1.5 | 16 |
| 84 | Quantum-dot thermometry. Applied Physics Letters, 2007, 91, 252114. | 1.5 | 16 |
| 85 | Construction and Characterization of Kilobasepair Densely Labeled Peptide-DNA. Biomacromolecules, 2014, 15, 4065-4072. | 2.6 | 16 |
| 86 | Time-Resolved X-ray Diffraction Investigation of the Modified Phonon Dispersion in InSb Nanowires. Nano Letters, 2014, 14, 541-546. | 4.5 | 16 |
| 87 | Environmental coupling and phase breaking in open quantum dots. Journal of Physics Condensed Matter, 1998, 10, L55-L61. | 0.7 | 15 |
| 88 | Thermal resistance of a nanoscale point contact to an indium arsenide nanowire. Applied Physics Letters, 2011, 99, 063110. | 1.5 | 15 |
| 89 | Characterization of Ambipolar GaSb/InAs Coreâ€"Shell Nanowires by Thermovoltage Measurements. ACS Nano, 2015, 9, 7033-7040. | 7.3 | 15 |
| 90 | Three key questions on fractal conductance fluctuations: Dynamics, quantization, and coherence. Physical Review B, 2004, 70, . | 1.1 | 14 |

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| 91 | Control and understanding of kink formation in InAsâ€“InP heterostructure nanowires. Nanotechnology, 2013, 24, 345601. | 1.3 | 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. | 7.8 | 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. | 0.7 | 13 |
| 94 | Dependence of fractal conductance fluctuations on soft-wall profile in a double-layer semiconductor billiard. Applied Physics Letters, 2002, 80, 4381-4383. | 1.5 | 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 | 1.1 | 13 |
| 96 | Design and Construction of the Lawnmower, An Artificial Burnt-Bridges Motor. IEEE Transactions on Nanobioscience, 2015, 14, 305-312. | 2.2 | 13 |
| 97 | Regeneration of Assembled, Molecular-Motor-Based Bionanodevices. Nano Letters, 2019, 19, 7155-7163. | 4.5 | 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. | 1.1 | 12 |
| 100 | A quantum dot ratchet: Experiment and theory. Europhysics Letters, 1999, 45, 406-406. | 0.7 | 12 |
| 101 | Fluidic switching in nanochannels for the control of Inchworm: a synthetic biomolecular motor with a power stroke. Nanoscale, 2014, 6, 15008-15019. | 2.8 | 12 |
| 102 | Achieving short high-quality gate-all-around structures for horizontal nanowire field-effect transistors. Nanotechnology, 2019, 30, 064001. | 1.3 | 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. | 1.5 | 12 |
| 104 | Chaos in Quantum Ratchets. Physica Scripta, 2001, T90, 54. | 1.2 | 11 |
| 105 | Heat flow in InAs/InP heterostructure nanowires. Physical Review B, 2012, 86, . | 1.1 | 11 |
| 106 | Is it the boundaries or disorder that dominates electron transport in semiconductor `billiards'?. Fortschritte Der Physik, 2013, 61, 332-347. | 1.5 | 11 |
| 107 | Tracking Actomyosin at Fluorescence Check Points. Scientific Reports, 2013, 3, 1092. | 1.6 | 11 |
| 108 | Fully tunable, non-invasive thermal biasing of gated nanostructures suitable for low-temperature studies. Nanotechnology, 2014, 25, 385704. | 1.3 | 11 |

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| 109 | Construction of a Chassis for a Tripartite Protein-Based Molecular Motor. ACS Synthetic Biology, 2017, 6, 1096-1102. | 1.9 | 11 |
| 110 | Single-Molecule Detection with Lightguiding Nanowires: Determination of Protein Concentration and Diffusivity in Supported Lipid Bilayers. Nano Letters, 2019, 19, 6182-6191. | 4.5 | 11 |
| 111 | Prolonged function and optimization of actomyosin motility for upscaled network-based biocomputation. New Journal of Physics, 2021, 23, 085005. | 1.2 | 11 |
| 112 | A classical Master equation approach to modeling an artificial protein motor. Chemical Physics, 2010, 375, 479-485. | 0.9 | 10 |
| 113 | Thermoelectric Characterization of Electronic Properties of GaMnAs Nanowires. Journal of Nanotechnology, 2012, 2012, 1-5. | 1.5 | 10 |
| 114 | Controlled microfluidic switching in arbitrary time-sequences with low drag. Lab on A Chip, 2013, 13, 2389. | 3.1 | 10 |
| 115 | Hot-carrier separation in heterostructure nanowires observed by electron-beam induced current. Nanotechnology, 2020, 31, 394004. | 1.3 | 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. | 0.8 | 9 |
| 117 | Non-Equilibrium Electrons in a Ballistic Quantum Dot. Physica Status Solidi (B): Basic Research, 1997, 204, 318-321. | 0.7 | 9 |
| 118 | Symmetry of magnetoconductance fluctuations of quantum dots in the nonlinear response regime. Physical Review B, 2006, 73, . | 1.1 | 9 |
| 119 | Tuning the performance of an artificial protein motor. Physical Review E, 2011, 84, 031922. | 0.8 | 9 |
| 120 | Nanowire-Imposed Geometrical Control in Studies of Actomyosin Motor Function. IEEE Transactions on Nanobioscience, 2015, 14, 289-297. | 2.2 | 9 |
| 121 | Semiconductor nanowire array for transparent photovoltaic applications. Applied Physics Letters, 2021, 118, 191107. | 1.5 | 9 |
| 122 | Physical requirements for scaling up network-based biocomputation. New Journal of Physics, 2021, 23, 105004. | 1.2 | 9 |
| 123 | Molecular motor-driven filament transport across three-dimensional, polymeric micro-junctions. New Journal of Physics, 2021, 23, 125002. | 1.2 | 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. | 1.5 | 8 |
| 125 | Probing the sensitivity of electron wave interference to disorder-induced scattering in solid-state devices. Physical Review B, 2012, 85, . | 1.1 | 8 |
| 126 | Motor properties from persistence: a linear molecular walker lacking spatial and temporal asymmetry. New Journal of Physics, 2015, 17, 055017. | 1.2 | 8 |

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| 127 | Fluorescence Signal Enhancement in Antibody Microarrays Using Lightguiding Nanowires. Nanomaterials, 2021, 11, 227. | 1.9 | 8 |
| 128 | Quantum ratchets act as heat pumps. Physica B: Condensed Matter, 2002, 314, 464-468. | 1.3 | 7 |
| 129 | Design and Construction of a One-Dimensional DNA Track for an Artificial Molecular Motor. Journal of Nanomaterials, 2012, 2012, 1-10. | 1.5 | 7 |
| 130 | Design of network-based biocomputation circuits for the exact cover problem. New Journal of Physics, 2021, 23, 085004. | 1.2 | 7 |
| 131 | Through the Eyes of Creators: Observing Artificial Molecular Motors. ACS Nanoscience Au, 2022, 2, 140-159. | 2.0 | 7 |
| 132 | Novel applications of contactless characterization techniques in epitaxial crystals and quantum well structures. Journal of Crystal Growth, 1993, 128, 567-570. | 0.7 | 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. | 1.7 | 6 |
| 134 | Carrierâ€modulated, microwaveâ€detected Shubnikovâ€“de Haas oscillations in twoâ€dimensional systems. Applied Physics Letters, 1993, 62, 2725-2727. | 1.5 | 6 |
| 135 | Phase breaking of nonequilibrium electrons in a ballistic quantum dot. Physical Review B, 1997, 56, 14937-14940. | 1.1 | 6 |
| 136 | Voltage and temperature limits for the operation of a quantum dot ratchet. Physica B: Condensed Matter, 1999, 272, 61-63. | 1.3 | 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. | 1.3 | 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. | 1.4 | 5 |
| 140 | Intrinsic Seebeck Coefficient of Quantum Dots. Journal of Electronic Materials, 2009, 38, 1163-1165. | 1.0 | 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. | 3.2 | 5 |
| 142 | Dissipation Reduction and Information-to-Measurement Conversion in DNA Pulling Experiments with Feedback Protocols. Physical Review X, 2021, 11, . | 2.8 | 5 |
| 143 | The bar-hinge motor: a synthetic protein design exploiting conformational switching to achieve directional motility. New Journal of Physics, 2019, 21, 013002. | 1.2 | 4 |
| 144 | Design and development of nanoimprint-enabled structures for molecular motor devices. Materials Research Express, 2019, 6, 025057. | 0.8 | 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. | 2.0 | 4 |
| 147 | The voltage limitation for phase coherence experiments: non-equilibrium effects versus Joule heating. Superlattices and Microstructures, 1996, 20, 441-446. | 1.4 | 3 |
| 148 | PHYSICS: Coherent Power Booster. Science, 2003, 299, 841-842. | 6.0 | 3 |
| 149 | Nanoscale Thermometry with a Quantum Dot. Journal of Low Temperature Physics, 2009, 154, 161-171. | 0.6 | 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. | 0.6 | 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. | 3.3 | 3 |
| 152 | Solving the subset sum problem with a nonideal biological computer. New Journal of Physics, 2021, 23, 095007. | 1.2 | 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. | 2.5 | 3 |
| 156 | Enhanced Optical Biosensing by Aerotaxy Ga(As)P Nanowire Platforms Suitable for Scalable Production. ACS Applied Nano Materials, 0, , . | 2.4 | 3 |
| 157 | Iron acceptor level in ZnTe. Applied Physics Letters, 1992, 61, 2911-2913. | 1.5 | 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. | 1.0 | 2 |
| 160 | Quantum conductance fluctuations in semiconductor devices. Current Applied Physics, 2008, 8, 332-335. | 1.1 | 2 |
| 161 | Determining a temperature differential across a quantum dot. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1605-1607. | 1.3 | 2 |
| 162 | Carrier density saturation in a heterostructure. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1754-1756. | 1.3 | 2 |

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| 163 | Investigation of electron wave function hybridization in Ga0.25In0.75As/InP arrays. Applied Physics Letters, 2009, 95, 182105. | 1.5 | 2 |
| 164 | Effectiveness of beads for tracking small-scale molecular motor dynamics. Physical Review E, 2011, 84, 021907. | 0.8 | 2 |
| 165 | Thermopower as a tool to investigate many-body effects in quantum systems. Applied Physics Letters, 2014, 105, 083105. | 1.5 | 2 |
| 166 | Surface nanostructures for fluorescence probing of supported lipid bilayers on reflective substrates. Nanoscale, 2015, 7, 18020-18024. | 2.8 | 2 |
| 167 | Prospects for single-molecule electrostatic detection in molecular motor gliding motility assays. New Journal of Physics, 2021, 23, 065003. | 1.2 | 2 |
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| 170 | Randomly distributed ultrasmall metal particles on the surface of high mobility 2DEG samples. Superlattices and Microstructures, 1994, 15, 367. | 1.4 | 1 |
| 171 | Electron quantum ratchets. Microelectronic Engineering, 1999, 47, 265-267. | 1.1 | 1 |
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| 173 | Reversible Electron Heat Engines. AIP Conference Proceedings, 2002, , . | 0.3 | 1 |
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| 175 | Discrete energy level spectrum dependence of fractal conductance fluctuations in semiconductor billiards. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 13, 683-686. | 1.3 | 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. | 1.1 | 1 |
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| 180 | Mesoscopic Thermovoltage Measurement Design. , 2011, , . | | 1 |

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