

# M Pepper

## List of Publications by Year in descending order

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615  
papers

26,092  
citations

14644

66  
h-index

8852

145  
g-index

618  
all docs

618  
docs citations

618  
times ranked

10984  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Effects of biased and unbiased illuminations on two-dimensional electron gases in dopant-free GaAs/AlGaAs. Physical Review B, 2022, 105, .                                      | 1.1 | 2         |
| 2  | Engineering electron wavefunctions in asymmetrically confined quasi one-dimensional structures. Applied Physics Letters, 2021, 118, .   | 1.5 | 6         |
| 3  | Interactions and non-magnetic fractional quantization in one-dimension. Applied Physics Letters, 2021, 119, 110502.   | 1.5 | 4         |
| 4  | Advances in interaction effects in the quasi one-dimensional electron gas. Frontiers of Nanoscience, 2021, 20, 7-29.  | 0.3 | 0         |
| 5  | Single-electron pump with highly controllable plateaus. Applied Physics Letters, 2021, 119, .   | 1.5 | 2         |
| 6  | Hall resistance anomalies in the integer and fractional quantum Hall regime. Physical Review B, 2020, 102, .  | 1.1 | 2         |
| 7  | Activated and Metallic Conduction in $p$ -Type Modulation-Doped $\text{Ge} - \text{Ge}$ Devices. Physical Review Applied, 2020, 14, .   | 1.5 | 6         |
| 8  | Formation of a non-magnetic, odd-denominator fractional quantized conductance in a quasi-one-dimensional electron system. Applied Physics Letters, 2019, 115, 123104.           | 1.5 | 5         |
| 9  | Zero-Magnetic Field Fractional Quantum States. Physical Review Letters, 2019, 122, 086803.  | 2.9 | 20        |
| 10 | Conductance quantisation in patterned gate $\text{In}_{0.75}\text{Ga}_{0.25}\text{As}$ structures up to $6\frac{2}{h}$ . Journal of Physics Condensed Matter, 2019, 31, 104002. | 0.7 | 1         |
| 11 | Cavity assisted spin reconfiguration in a quantum wire. Journal of Physics: Conference Series, 2018, 964, 012003.   | 0.3 | 0         |
| 12 | Self-organised fractional quantisation in a hole quantum wire. Journal of Physics Condensed Matter, 2018, 30, 09LT01.   | 0.7 | 17        |
| 13 | Engineering the spin polarization of one-dimensional electrons. Journal of Physics Condensed Matter, 2018, 30, 08LT01.  | 0.7 | 10        |
| 14 | LO-Phonon Emission Rate of Hot Electrons from an On-Demand Single-Electron Source in a GaAs/AlGaAs Heterostructure. Physical Review Letters, 2018, 121, 137703.                 | 2.9 | 27        |
| 15 | Direct observation of spin polarization in GaAs quantum wires by transverse electron focusing. Journal of Physics: Conference Series, 2018, 964, 012002.                        | 0.3 | 5         |
| 16 | Ultrafast voltage sampling using single-electron wavepackets. Applied Physics Letters, 2017, 110, .   | 1.5 | 29        |
| 17 | Controlled spatial separation of spins and coherent dynamics in spin-orbit-coupled nanostructures. Nature Communications, 2017, 8, 15997.                                       | 5.8 | 21        |
| 18 | Tunneling of hybridized pairs of electrons through a one-dimensional channel. Advances in Physics: X, 2017, 2, 545-568.   | 1.5 | 2         |

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | Quantum ballistic transport in strained epitaxial germanium. Applied Physics Letters, 2017, 111, 233512.  | 1.5  | 8         |
| 20 | Early work on semiconductor quantum nanoelectronics in the Cavendish Laboratory. Journal of Physics Condensed Matter, 2016, 28, 421003.   | 0.7  | 1         |
| 21 | Non-invasive charge detection in surface-acoustic-wave-defined dynamic quantum dots. Applied Physics Letters, 2016, 109, 183501.  | 1.5  | 0         |
| 22 | Time-of-Flight Measurements of Single-Electron Wave Packets in Quantum Hall Edge States. Physical Review Letters, 2016, 116, 126803.  | 2.9  | 64        |
| 23 | All-electric all-semiconductor spin field-effect transistors. Nature Nanotechnology, 2015, 10, 35-39.   | 15.6 | 289       |
| 24 | Noncollinear Paramagnetism of a GaAs Two-Dimensional Hole System. Physical Review Letters, 2014, 113, 236401.   | 2.9  | 9         |
| 25 | Evidence of Novel Quasiparticles in a Strongly Interacting Two-Dimensional Electron System: Giant Thermopower and Metallic Behaviour. Journal of Low Temperature Physics, 2013, 171, 626-631. | 0.6  | 8         |
| 26 | Application of terahertz pulsed imaging to analyse film coating characteristics of sustained-release coated pellets. International Journal of Pharmaceutics, 2013, 457, 521-526.              | 2.6  | 41        |
| 27 | Magnetic focusing with quantum point contacts in the non-equilibrium transport regime. Applied Physics Letters, 2013, 103, .  | 1.5  | 7         |
| 28 | Clock-Controlled Emission of Single-Electron Wave Packets in a Solid-State Circuit. Physical Review Letters, 2013, 111, 216807.   | 2.9  | 112       |
| 29 | Effect of low transverse magnetic field on the confinement strength in a quasi-1D wire. , 2013, , .   |      | 1         |
| 30 | Quantum Conductance in Silicon Oxide Resistive Memory Devices. Scientific Reports, 2013, 3, 2708.   | 1.6  | 144       |
| 31 | Disorder and Interaction Effects in Quantum Wires. Journal of Physics: Conference Series, 2012, 376, 012018.  | 0.3  | 8         |
| 32 | All-Electrical Injection and Detection of a Spin-Polarized Current Using 1D Conductors. Physical Review Letters, 2012, 109, 177202.   | 2.9  | 28        |
| 33 | Experimental Progress towards Probing the Ground State of an Electron-Hole Bilayer by Low-Temperature Transport. Advances in Condensed Matter Physics, 2011, 2011, 1-22.                      | 0.4  | 19        |
| 34 | Compressibility Measurements of Quasi-One-Dimensional Quantum Wires. Physical Review Letters, 2011, 107, 126801.  | 2.9  | 14        |
| 35 | Single- and few-electron dynamic quantum dots in a perpendicular magnetic field. Journal of Applied Physics, 2011, 109, .   | 1.1  | 11        |
| 36 | Coupled double-row formation in a quasi-1D wire. Physica E: Low-Dimensional Systems and Nanostructures, 2010, 42, 1114-1117.  | 1.3  | 7         |

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|----|--|-----|-----------|
| 37 | Double-row transport in quantum wires of shallow confinement. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 1118-1121.  | 1.3 | 7         |
| 38 | Towards the ground state of an electron-hole bilayer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 1247-1250.  | 1.3 | 6         |
| 39 | Radio-frequency reflectometry—A fast and sensitive measurement method for two-dimensional systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 1192-1195.                   | 1.3 | 1         |
| 40 | Benefits of using undoped GaAs/AlGaAs heterostructures: A case study of the zero-bias bias anomaly in quantum wires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010, 42, 1200-1204. | 1.3 | 8         |
| 41 | Disorder and electron interaction control in low-doped silicon metal-oxide-semiconductor field effect transistors. <i>Applied Physics Letters</i> , 2010, 97, 142108.                                    | 1.5 | 6         |
| 42 | Electrons in one dimension. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 1141-1162.   | 1.6 | 33        |
| 43 | Direct Observation of Nonequilibrium Spin Population in Quasi-One-Dimensional Nanostructures. <i>Nano Letters</i> , 2010, 10, 2330-2334.   | 4.5 | 11        |
| 44 | An accurate high-speed single-electron quantum dot pump. <i>New Journal of Physics</i> , 2010, 12, 073013.   | 1.2 | 54        |
| 45 | Parallel quantized charge pumping. <i>Physical Review B</i> , 2009, 80, .  | 1.1 | 40        |
| 46 | Row coupling in an interacting quasi-one-dimensional quantum wire investigated using transport measurements. <i>Physical Review B</i> , 2009, 80, .  | 1.1 | 40        |
| 47 | Possible effect of collective modes in zero magnetic field transport in an electron-hole bilayer. <i>Physical Review B</i> , 2009, 80, .   | 1.1 | 15        |
| 48 | Nuclear spin coherence in a quantum wire. <i>Physical Review B</i> , 2009, 80, .   | 1.1 | 14        |
| 49 | Non-Kondo zero-bias anomaly in quantum wires. <i>Physical Review B</i> , 2009, 79, .   | 1.1 | 24        |
| 50 | Odd-even spin effects and variation of $\langle g \rangle$ factor in a quasi-one-dimensional subband. <i>Physical Review B</i> , 2009, 79, .   | 1.1 | 14        |
| 51 | Incipient Formation of an Electron Lattice in a Weakly Confined Quantum Wire. <i>Physical Review Letters</i> , 2009, 102, 056804.  | 2.9 | 71        |
| 52 | Molecular beam epitaxy of high mobility $\text{In}_{0.75}\text{Ga}_{0.25}\text{As}$ for electron spin transport applications. <i>Journal of Vacuum Science &amp; Technology B</i> , 2009, 27, 2066.      | 1.3 | 6         |
| 53 | Spin-split excitation gap and spin entanglement of a pair of interacting electrons in a quantum dot. <i>Semiconductor Science and Technology</i> , 2009, 24, 115001.                                     | 1.0 | 6         |
| 54 | MBE growth and patterned backgating of electron-hole bilayer structures. <i>Journal of Crystal Growth</i> , 2009, 311, 1988-1993.  | 0.7 | 2         |

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|----|--|-----|-----------|
| 55 | Terahertz pulsed imaging as an analytical tool for sustained-release tablet film coating. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 71, 117-123.                               | 2.0 | 64        |
| 56 | Low temperature transport in undoped mesoscopic structures. <i>Applied Physics Letters</i> , 2009, 94, 172105.   | 1.5 | 17        |
| 57 | Zero-bias anomaly in quantum wires. <i>Physical Review B</i> , 2009, 79, .   | 1.1 | 42        |
| 58 | Coherent Time Evolution of a Single-Electron Wave Function. <i>Physical Review Letters</i> , 2009, 102, 156801.  | 2.9 | 59        |
| 59 | Characterisation of spin-incoherent transport in one dimension. <i>Journal of Physics: Conference Series</i> , 2009, 150, 032029.  | 0.3 | 0         |
| 60 | Measurement of Coulomb-energy-dependent tunnelling rates in surface-acoustic-wave-defined dynamic quantum dots. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1136-1138.        | 1.3 | 9         |
| 61 | Spontaneous spin polarisation in one dimension under finite DC-bias. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1295-1297.   | 1.3 | 1         |
| 62 | Investigation of single-electron dynamics in tunnelling between zero- and one-dimensional states. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1017-1021.                      | 1.3 | 4         |
| 63 | Field-tunable magnetic phases in a semiconductor-based two-dimensional Kondo lattice. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 942-948.                                    | 1.3 | 2         |
| 64 | Sensitivity of the magnetic state of a spin lattice on itinerant electron orbital phase. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1460-1463.                               | 1.3 | 1         |
| 65 | 0.7 Structure and zero bias anomaly in one-dimensional hole systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1501-1503.   | 1.3 | 0         |
| 66 | Electron population control of a highly isolated quantum dot using surface-acoustic waves. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1596-1598.                             | 1.3 | 1         |
| 67 | Metallic behavior in low-disorder two-dimensional hole systems in the presence of long- and short-range disorder. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1599-1601.      | 1.3 | 0         |
| 68 | Screening long-range Coulomb interactions in 2D hole systems using a bilayer heterostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1700-1702.                          | 1.3 | 1         |
| 69 | Tuning the confinement strength in a split-gate quantum wire. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1645-1647.  | 1.3 | 7         |
| 70 | Selective breakdown of quantum Hall edge states and non-monotonic Coulomb drag in a GaAs/AlGaAs electron-hole bilayer. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1693-1696. | 1.3 | 11        |
| 71 | Electron pumping through quantum dots defined in parallel etched quantum wires. <i>Microelectronics Journal</i> , 2008, 39, 365-368.   | 1.1 | 3         |
| 72 | Impact of long- and short-range disorder on the metallic behaviour of two-dimensional systems. <i>Nature Physics</i> , 2008, 4, 55-59.   | 6.5 | 39        |

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|----|---|-----|-----------|
| 73 | Bychkovâ€“Rashba dominated band structure in an In <sub>0.75</sub> Ga <sub>0.25</sub> Asâ€“In <sub>0.75</sub> Al <sub>0.25</sub> As device with spin-split carrier densities of $< 10^{11} \text{cm}^{-2}$ . Journal of Physics Condensed Matter, 2008, 20, 472207. | 0.7 | 12        |
| 74 | Bias-controlled spin polarization in quantum wires. Applied Physics Letters, 2008, 93, .  | 1.5 | 46        |
| 75 | Spin-Incoherent Transport in Quantum Wires. Physical Review Letters, 2008, 101, 036801.   | 2.9 | 44        |
| 76 | The 0.7 anomaly in one-dimensional hole quantum wires. Journal of Physics Condensed Matter, 2008, 20, 164205.   | 0.7 | 10        |
| 77 | Variation of the hopping exponent in disordered silicon MOSFETs. Journal of Physics Condensed Matter, 2008, 20, 415226.   | 0.7 | 1         |
| 78 | Spin effects in one-dimensional systems. Journal of Physics Condensed Matter, 2008, 20, 164213.   | 0.7 | 9         |
| 79 | Effect of screening long-range Coulomb interactions on the metallic behavior in two-dimensional hole systems. Physical Review B, 2008, 77, .  | 1.1 | 14        |
| 80 | Magnetic-field-induced instabilities in localized two-dimensional electron systems. Physical Review B, 2008, 78, .  | 1.1 | 1         |
| 81 | Spin injection from Co <sub>2</sub> MnGa into an InGaAs quantum well. Applied Physics Letters, 2008, 92, 232101.  | 1.5 | 20        |
| 82 | Patterned backgating using single-sided mask aligners: Application to density-matched electron-hole bilayers. Journal of Applied Physics, 2008, 104, .  | 1.1 | 7         |
| 83 | Radio-frequency reflectometry on large gated two-dimensional systems. Review of Scientific Instruments, 2008, 79, 123901.   | 0.6 | 12        |
| 84 | Quantum transport in In <sub>0.75</sub> Ga <sub>0.25</sub> As quantum wires. Applied Physics Letters, 2008, 92, 152108.   | 1.5 | 23        |
| 85 | Elimination of scattering effects in spectral measurement of granulated materials using terahertz pulsed spectroscopy. Applied Physics Letters, 2008, 92, .   | 1.5 | 105       |
| 86 | Uniformity of electron pumping regime in two GaAs tunable-barrier pumps. , 2008, , .  |     | 0         |
| 87 | 0.7 Structure and Zero Bias Anomaly in Ballistic Hole Quantum Wires. Physical Review Letters, 2008, 100, 016403.  | 2.9 | 27        |
| 88 | Field-induced modulation of the conductance, thermoelectric power, and magnetization in ballistic coupled double quantum wires under a tilted magnetic field. Physical Review B, 2008, 77, .  | 1.1 | 20        |
| 89 | Anticrossing of Spin-Split Subbands in Quasi-One-Dimensional Wires. Physical Review Letters, 2008, 100, 226804.   | 2.9 | 2         |
| 90 | Kondo Effect from a Tunable Bound State within a Quantum Wire. Physical Review Letters, 2008, 100, 026807.  | 2.9 | 57        |

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|-----|--|-----|-----------|
| 91  | Effect of a perpendicular magnetic field on the zero-bias anomaly in two-dimensional electron systems. <i>Physical Review B</i> , 2008, 78, .  | 1.1 | 0         |
| 92  | Enhanced current quantization in high-frequency electron pumps in a perpendicular magnetic field. <i>Physical Review B</i> , 2008, 78, .   | 1.1 | 45        |
| 93  | Anomalous Coulomb Drag in Electron-Hole Bilayers. <i>Physical Review Letters</i> , 2008, 101, 246801.  | 2.9 | 104       |
| 94  | Quantum transport in one-dimensional GaAs hole systems. <i>International Journal of Nanotechnology</i> , 2008, 5, 318.   | 0.1 | 1         |
| 95  | Effects of inelastic capture, tunneling escape, and quantum confinement on surface acoustic wave-dragged photocurrents in quantum wells. <i>Journal of Applied Physics</i> , 2008, 103, 083714.  | 1.1 | 7         |
| 96  | Quantized acoustoelectric current in an InGaAs quantum well. <i>Journal of Applied Physics</i> , 2008, 103, .  | 1.1 | 10        |
| 97  | Activation mechanisms in sodium-doped silicon MOSFETs. <i>Journal of Physics Condensed Matter</i> , 2007, 19, 226216.  | 0.7 | 7         |
| 98  | Suppression of spin-splitting in $\text{Al}_{0.33}\text{Ga}_{0.67}\text{As}/\text{Al}_x\text{Ga}_{1-x}\text{As}$ heterostructures with $x$ varying from 0.10 to 0.15. <i>Semiconductor Science and Technology</i> , 2007, 22, 722-727. | 1.0 | 1         |
| 99  | Strongly bias-dependent spin injection from Fe intertype GaAs. <i>Physical Review B</i> , 2007, 75, .  | 1.1 | 9         |
| 100 | Collapse of nonequilibrium charge states in an isolated quantum dot using surface acoustic waves. <i>Physical Review B</i> , 2007, 75, .   | 1.1 | 4         |
| 101 | Energy-level pinning and the 0.7 spin state in one dimension: GaAs quantum wires studied using finite-bias spectroscopy. <i>Physical Review B</i> , 2007, 75, .  | 1.1 | 32        |
| 102 | Single-Electron Population and Depopulation of an Isolated Quantum Dot Using a Surface-Acoustic-Wave Pulse. <i>Physical Review Letters</i> , 2007, 98, 046801.   | 2.9 | 35        |
| 103 | Gigahertz quantized charge pumping. <i>Nature Physics</i> , 2007, 3, 343-347.  | 6.5 | 363       |
| 104 | Energy-Dependent Tunneling from Few-Electron Dynamic Quantum Dots. <i>Physical Review Letters</i> , 2007, 99, 156802.  | 2.9 | 43        |
| 105 | Drug hydrate systems and dehydration processes studied by terahertz pulsed spectroscopy. <i>International Journal of Pharmaceutics</i> , 2007, 334, 78-84.   | 2.6 | 134       |
| 106 | Magnetoconductivity of Hubbard bands induced in silicon MOSFETs. <i>Physica B: Condensed Matter</i> , 2007, 400, 218-223.  | 1.3 | 4         |
| 107 | Comparison of vibrational spectroscopy techniques to investigate the dehydration behaviour of piroxicam monohydrate from compacts. <i>European Journal of Pharmaceutical Sciences</i> , 2007, 32, S9.                                  | 1.9 | 0         |
| 108 | Analysis of sustained-release tablet film coats using terahertz pulsed imaging. <i>Journal of Controlled Release</i> , 2007, 119, 253-261.   | 4.8 | 145       |

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|-----|--|-----|-----------|
| 109 | Ballistic electron spectroscopy. Applied Physics Letters, 2006, 89, 212103.  | 1.5 | 5         |
| 110 | Single-electron transfer between double quantum dots defined by surface acoustic waves. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 546-549.  | 1.3 | 6         |
| 111 | Closely spaced, independently contacted electron-hole bilayers in GaAs-AlGaAs heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 689-692.                                    | 1.3 | 0         |
| 112 | Ballistic transport in one-dimensional bilayer hole systems. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 550-552.   | 1.3 | 2         |
| 113 | New interaction effects in quantum point contacts at high magnetic fields. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 588-591.   | 1.3 | 6         |
| 114 | Conductance Quantization at a Half-Integer Plateau in a Symmetric GaAs Quantum Wire. Science, 2006, 312, 1359-1362.  | 6.0 | 85        |
| 115 | Gating schemes for controlling the electron wavefunction between GaAs and In <sub>0.05</sub> Ga <sub>0.95</sub> As quasi-one-dimensional channels. Journal of Physics Condensed Matter, 2006, 18, L123-L128. | 0.7 | 6         |
| 116 | Zeeman Splitting in Ballistic Hole Quantum Wires. Physical Review Letters, 2006, 97, 026403.   | 2.9 | 85        |
| 117 | Evidence for multiple impurity bands in sodium-doped silicon MOSFETs. Physical Review B, 2006, 73, .   | 1.1 | 9         |
| 118 | Examination of multiply reflected surface acoustic waves by observing acoustoelectric current generation under pulse modulation. Physical Review B, 2006, 74, .  | 1.1 | 7         |
| 119 | Examination of surface acoustic wave reflections by observing acoustoelectric current generation under pulse modulation. Applied Physics Letters, 2006, 89, 132102.  | 1.5 | 13        |
| 120 | Conductance quantization and the $0.7\tilde{A}-2e\tilde{a}\cdot h$ conductance anomaly in one-dimensional hole systems. Applied Physics Letters, 2006, 88, 012107.   | 1.5 | 42        |
| 121 | Experimental investigation of the surface acoustic wave electron capture mechanism. Physical Review B, 2006, 74, .   | 1.1 | 33        |
| 122 | Fano effect and Kondo effect in quantum dots formed in strongly coupled quantum wells. Physical Review B, 2006, 73, .  | 1.1 | 13        |
| 123 | Quantum-dot thermometry of electron heating by surface acoustic waves. Applied Physics Letters, 2006, 89, 122104.  | 1.5 | 26        |
| 124 | The effect of pulse-modulated surface acoustic waves on acoustoelectric current quantization. Journal of Applied Physics, 2006, 100, 063710.   | 1.1 | 26        |
| 125 | Evidence for a finite compressibility of a quasi-one-dimensional ballistic channel. Microelectronics Journal, 2005, 36, 331-333.   | 1.1 | 0         |
| 126 | Single-photon detection mechanism in a quantum dot transistor. Physica E: Low-Dimensional Systems and Nanostructures, 2005, 26, 356-360.   | 1.3 | 4         |



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|-----|---|------|-----------|
| 127 | Jain's Kivelson-type resonance as a noninvasive probe of screening in the quantum Hall regime. <i>Microelectronics Journal</i> , 2005, 36, 425-427.                                 | 1.1  | 1         |
| 128 | Interaction effects in high-mobility two-dimensional electron and hole systems. <i>Physica Status Solidi (B): Basic Research</i> , 2005, 242, 1204-1208.                            | 0.7  | 1         |
| 129 | Chemical mapping using reflection terahertz pulsed imaging. <i>Semiconductor Science and Technology</i> , 2005, 20, S254-S257.  | 1.0  | 54        |
| 130 | Spin injection between epitaxial $\text{Co}_{2.4}\text{Mn}_{1.6}\text{Ga}$ and an InGaAs quantum well. <i>Applied Physics Letters</i> , 2005, 86, 252106.                           | 1.5  | 48        |
| 131 | Interaction correction to the longitudinal conductivity and Hall resistivity in high-quality two-dimensional GaAs electron and hole systems. <i>Physical Review B</i> , 2005, 72, . | 1.1  | 10        |
| 132 | Acoustoelectric current transport through a double quantum dot. <i>Physical Review B</i> , 2005, 72, .  | 1.1  | 13        |
| 133 | Local transport in a disorder-stabilized correlated insulating phase. <i>Physical Review B</i> , 2005, 72, .  | 1.1  | 18        |
| 134 | Evolution of the bilayer $\nu=1$ quantum Hall state under charge imbalance. <i>Physical Review B</i> , 2005, 71, .  | 1.1  | 15        |
| 135 | Acoustoelectric current in submicron-separated quantum wires. <i>Applied Physics Letters</i> , 2005, 86, 152105.  | 1.5  | 13        |
| 136 | Zero-Bias Anomaly and Kondo-Assisted Quasiballistic 2D Transport. <i>Physical Review Letters</i> , 2005, 95, 066603.  | 2.9  | 12        |
| 137 | Anomalous spin-dependent behavior of one-dimensional subbands. <i>Physical Review B</i> , 2005, 72, .   | 1.1  | 15        |
| 138 | Continuous-wave terahertz system with a 60 dB dynamic range. <i>Applied Physics Letters</i> , 2005, 86, 204104.   | 1.5  | 96        |
| 139 | Fabrication of closely spaced, independently contacted electron-hole bilayers in GaAs-AlGaAs heterostructures. <i>Applied Physics Letters</i> , 2005, 87, 202104.                   | 1.5  | 20        |
| 140 | Terahertz Frequency Sensing and Imaging: A Time of Reckoning Future Applications?. <i>Proceedings of the IEEE</i> , 2005, 93, 1722-1743.  | 16.4 | 370       |
| 141 | Measurements of composite fermion conductivity dependence on carrier density. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 1095-1101.                                     | 0.7  | 1         |
| 142 | Unusual conductance collapse in one-dimensional quantum structures. <i>Journal of Physics Condensed Matter</i> , 2004, 16, L279-L286.   | 0.7  | 8         |
| 143 | Gradual decrease of conductance of an adiabatic ballistic constriction below $2e^2\hbar$ . <i>Physical Review B</i> , 2004, 70, .   | 1.1  | 9         |
| 144 | Noninvasive detection of the evolution of the charge states of a double dot system. <i>Physical Review B</i> , 2004, 69, .  | 1.1  | 15        |

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|-----|--|-----|-----------|
| 145 | Masking by weak localization of metallic behavior in a two-dimensional electron system in strong parallel magnetic fields. <i>Physical Review B</i> , 2004, 69, .                      | 1.1 | 6         |
| 146 | Dynamic localization of two-dimensional electrons at mesoscopic length scales. <i>Physical Review B</i> , 2004, 70, .  | 1.1 | 12        |
| 147 | Quantized charge pumping through a quantum dot by surface acoustic waves. <i>Applied Physics Letters</i> , 2004, 84, 4319-4321.  | 1.5 | 53        |
| 148 | Weak localization in high-quality two-dimensional systems. <i>Physical Review B</i> , 2004, 70, .  | 1.1 | 49        |
| 149 | Noninvasive lateral detection of Coulomb blockade in a quantum dot fabricated using atomic force microscopy. <i>Journal of Applied Physics</i> , 2004, 95, 2557-2559.                  | 1.1 | 12        |
| 150 | Stability of the bilayer $\nu=1$ quantum Hall state under charge imbalance. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 40-43.                            | 1.3 | 1         |
| 151 | Can the conductance step of a single-mode ballistic constriction be lower than $2e^2/h$ ? <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 268-271.            | 1.3 | 0         |
| 152 | 0.7 Analogue structures and exchange interactions in quantum wires. <i>Solid State Communications</i> , 2004, 131, 591-597.  | 0.9 | 9         |
| 153 | Leakage current induced anomalies in the photoluminescence of GaAs coupled quantum wells. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2004, 1, 612-615.    | 0.8 | 0         |
| 154 | Interactions in high-mobility 2D electron and hole systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 218-223.  | 1.3 | 4         |
| 155 | 0.7 Structure in quantum wires observed at crossings of spin-polarised 1D subbands. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 264-267.                  | 1.3 | 7         |
| 156 | Non-invasive detection of the ionic and covalent charge states of an isolated double dot system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 522-525.     | 1.3 | 2         |
| 157 | Experimental evidence for screening effects from surface states in GaAs/AlGaAs based nanostructures. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 570-573. | 1.3 | 3         |
| 158 | Photon-induced conductance steps and in situ modulation of disorder in mesoscopic electron systems. <i>Physical Review B</i> , 2004, 70, .   | 1.1 | 4         |
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| 615 | The influence of the electrode on the low temperature annealing of interface states in the Si-SiO <sub>2</sub> system. Thin Solid Films, 1971, 8, 133-142. | 0.8 | 5         |