# Antti-Pekka Jauho

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 224 papers | 10,337 citations | 53 h-index | 96 g-index |
| 240 ext. papers | 11,345 ext. citations | 4.4 avg, IF | 6.36 L-index |

| # | Paper | IF | Citations |
|---|---|---|---|
| 224 | Have mysterious topological valley currents been observed in graphene superlattices?. *JPhys Materials*, **2022**, 5, 021001 | 4.2 | 1 |
| 223 | Valley Hall effect and nonlocal resistance in locally gapped graphene. *Physical Review B*, **2021**, 103, | 3.3 | 4 |
| 222 | Quantum surface-response of metals revealed by acoustic graphene plasmons. *Nature Communications*, **2021**, 12, 3271 | 17.4 | 11 |
| 221 | Fermi velocity renormalization in graphene probed by terahertz time-domain spectroscopy. *2D Materials*, **2020**, 7, 035009 | 5.9 | 10 |
| 220 | Role of diffusive surface scattering in nonlocal plasmonics. *Journal of Physics Condensed Matter*, **2020**, 32, 395702 | 1.8 | 5 |
| 219 | Plasmon-emitter interactions at the nanoscale. *Nature Communications*, **2020**, 11, 366 | 17.4 | 38 |
| 218 | Coulomb drag between a carbon nanotube and monolayer graphene. *Physical Review Research*, **2020**, 2, | 3.9 | 5 |
| 217 | Josephson effect in graphene bilayers with adjustable relative displacement. *Physical Review Research*, **2020**, 2, | 3.9 | 2 |
| 216 | Moir□effects in graphene-hBN heterostructures. *Physical Review Research*, **2020**, 2, | 3.9 | 3 |
| 215 | Electron and hole transport in disordered monolayer MoS2: Atomic vacancy induced short-range and Coulomb disorder scattering. *Physical Review B*, **2019**, 100, | 3.3 | 11 |
| 214 | Gate electrostatics and quantum capacitance in ballistic graphene devices. *Physical Review B*, **2019**, 99, | 3.3 | 3 |
| 213 | Control of superconducting pairing symmetries in monolayer black phosphorus. *Physical Review B*, **2019**, 99, | 3.3 | 14 |
| 212 | Symmetry of superconducting correlations in displaced bilayers of graphene. *Physical Review B*, **2019**, 99, | 3.3 | 18 |
| 211 | Fluctuation-driven Coulomb drag in interacting quantum dot systems. *Physical Review B*, **2019**, 100, | 3.3 | 7 |
| 210 | Quantum Interference Engineering of Nanoporous Graphene for Carbon Nanocircuitry. *Journal of the American Chemical Society*, **2019**, 141, 13081-13088 | 16.4 | 17 |
| 209 | Tunable valley Hall effect in gate-defined graphene superlattices. *Physical Review B*, **2019**, 100, | 3.3 | 3 |
| 208 | Lithographic band structure engineering of graphene. *Nature Nanotechnology*, **2019**, 14, 340-346 | 28.7 | 44 |

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| 207 | Correlated Topological States in Graphene Nanoribbon Heterostructures. *Nano Letters*, **2019**, 19, 9045-9050 | 10.8 | 10 |
| 206 | Signatures of adatom effects in the quasiparticle spectrum of Li-doped graphene. *Physical Review B* , **2019**, 100, | 3.3 | 6 |
| 205 | Probing the nanoscale origin of strain and doping in graphene-hBN heterostructures. *2D Materials*, **2019**, 6, 015022 | 5.9 | 8 |
| 204 | Electron Waiting Times of a Cooper Pair Splitter. *Physical Review Letters*, **2018**, 120, 087701 | 7.4 | 25 |
| 203 | Conductance quantization suppression in the quantum Hall regime. *Nature Communications*, **2018**, 9, 659 | 17.4 | 18 |
| 202 | Strain-engineered Majorana zero energy modes and $\varphi_0$ Josephson state in black phosphorus. *Physical Review B*, **2018**, 98, | 3.3 | 32 |
| 201 | Probing nonlocal effects in metals with graphene plasmons. *Physical Review B*, **2018**, 97, | 3.3 | 29 |
| 200 | Fraunhofer response and supercurrent spin switching in black phosphorus with strain and disorder. *Physical Review B*, **2018**, 98, | 3.3 | 20 |
| 199 | Charge and spin transport anisotropy in nanopatterned graphene. *JPhys Materials*, **2018**, 1, 015005 | 4.2 | 5 |
| 198 | Ballistic tracks in graphene nanoribbons. *Nature Communications*, **2018**, 9, 4426 | 17.4 | 31 |
| 197 | Classification of DNA nucleotides with transverse tunneling currents. *Nanotechnology*, **2017**, 28, 015502 | 3.4 | 7 |
| 196 | Nanostructured graphene for spintronics. *Physical Review B*, **2017**, 95, | 3.3 | 12 |
| 195 | Strong Plasmon-Phonon Splitting and Hybridization in 2D Materials Revealed through a Self-Energy Approach. *ACS Photonics*, **2017**, 4, 2908-2915 | 6.3 | 9 |
| 194 | Thermoelectrics in Coulomb-coupled quantum dots: Cotunneling and energy-dependent lead couplings. *Physical Review B*, **2017**, 96, | 3.3 | 29 |
| 193 | Plasmons in Dimensionally Mismatched Coulomb Coupled Graphene Systems. *Physical Review Letters*, **2017**, 119, 126801 | 7.4 | 5 |
| 192 | Electron trajectories and magnetotransport in nanopatterned graphene under commensurability conditions. *Physical Review B*, **2017**, 96, | 3.3 | 11 |
| 191 | Quantum Corrections in Nanoplasmonics: Shape, Scale, and Material. *Physical Review Letters*, **2017**, 118, 157402 | 7.4 | 77 |
| 190 | Symmetry-forbidden intervalley scattering by atomic defects in monolayer transition-metal dichalcogenides. *Physical Review B*, **2017**, 96, | 3.3 | 23 |

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| 189 | Spin-Caloritronic Batteries. *Physical Review Applied*, **2017**, 8, | 4.3 | 7 |
| 188 | Electronic transport in graphene nanoribbons with sublattice-asymmetric doping. *Physical Review B* , **2016**, 93, | 3.3 | 10 |
| 187 | Pseudomagnetic fields and triaxial strain in graphene. *Physical Review B*, **2016**, 93, | 3.3 | 36 |
| 186 | Electron Interference in Ballistic Graphene Nanoconstrictions. *Physical Review Letters*, **2016**, 116, 186602 | 7.4 | 20 |
| 185 | Correlated Coulomb Drag in Capacitively Coupled Quantum-Dot Structures. *Physical Review Letters*, **2016**, 116, 196801 | 7.4 | 24 |
| 184 | Robust band gap and half-metallicity in graphene with triangular perforations. *Physical Review B*, **2016**, 93, | 3.3 | 6 |
| 183 | All-graphene edge contacts: Electrical resistance of graphene T-junctions. *Carbon*, **2016**, 101, 101-106 | 10.4 | 7 |
| 182 | Graphene Nanobubbles as Valley Filters and Beam Splitters. *Physical Review Letters*, **2016**, 117, 276801 | 7.4 | 86 |
| 181 | Quantum transport in graphene in presence of strain-induced pseudo-Landau levels. *2D Materials*, **2016**, 3, 034005 | 5.9 | 12 |
| 180 | Plasma wave instabilities in nonequilibrium graphene. *Physical Review B*, **2016**, 94, | 3.3 | 8 |
| 179 | Magnetic edge states and magnetotransport in graphene antidot barriers. *Physical Review B*, **2016**, 94, | 3.3 | 7 |
| 178 | Plasmonic eigenmodes in individual and bow-tie graphene nanotriangles. *Scientific Reports*, **2015**, 5, 9535 | 4.9 | 48 |
| 177 | Patched Green's function techniques for two-dimensional systems: Electronic behavior of bubbles and perforations in graphene. *Physical Review B*, **2015**, 91, | 3.3 | 27 |
| 176 | Graphene on graphene antidot lattices: Electronic and transport properties. *Physical Review B*, **2015** , 91, | 3.3 | 13 |
| 175 | Localized plasmons in graphene-coated nanospheres. *Physical Review B*, **2015**, 91, | 3.3 | 78 |
| 174 | Electron polarization function and plasmons in metallic armchair graphene nanoribbons. *Physical Review B*, **2015**, 91, | 3.3 | 10 |
| 173 | Thermally Driven Pure Spin and Valley Currents via the Anomalous Nernst Effect in Monolayer Group-VI Dichalcogenides. *Physical Review Letters*, **2015**, 115, 246601 | 7.4 | 36 |
| 172 | Kerr nonlinearity and plasmonic bistability in graphene nanoribbons. *Physical Review B*, **2015**, 92, | 3.3 | 57 |

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| 171 | Bubbles in graphene - a computational study. *Journal of Physics: Conference Series*, **2015**, 647, 012022 | 0.3 | 10 |
| 170 | Theoretical analysis of a dual-probe scanning tunneling microscope setup on graphene. *Physical Review Letters*, **2014**, 112, 096801 | 7.4 | 24 |
| 169 | Nonlocal response of metallic nanospheres probed by light, electrons, and atoms. *ACS Nano*, **2014**, 8, 1745-58 | 16.7 | 120 |
| 168 | Optical bistability of graphene in the terahertz range. *Physical Review B*, **2014**, 90, | 3.3 | 112 |
| 167 | Plasmon-mediated Coulomb drag between graphene waveguides. *Physical Review B*, **2014**, 89, | 3.3 | 5 |
| 166 | Electronic transport in disordered graphene antidot lattice devices. *Physical Review B*, **2014**, 90, | 3.3 | 30 |
| 165 | Dual-probe spectroscopic fingerprints of defects in graphene. *Physical Review B*, **2014**, 90, | 3.3 | 9 |
| 164 | Classical and quantum plasmonics in graphene nanodisks: Role of edge states. *Physical Review B*, **2014**, 90, | 3.3 | 57 |
| 163 | Refractive-Index Sensing with Ultrathin Plasmonic Nanotubes. *Plasmonics*, **2013**, 8, 193-199 | 2.4 | 59 |
| 162 | Microscopic theory of indistinguishable single-photon emission from a quantum dot coupled to a cavity: The role of non-Markovian phonon-induced decoherence. *Physical Review B*, **2013**, 87, | 3.3 | 42 |
| 161 | Electronic properties of disordered graphene antidot lattices. *Physical Review B*, **2013**, 87, | 3.3 | 30 |
| 160 | Nonlocal response in plasmonic waveguiding with extreme light confinement. *Nanophotonics*, **2013**, 2, 161-166 | 6.3 | 54 |
| 159 | Acoustic phonon limited mobility in two-dimensional semiconductors: Deformation potential and piezoelectric scattering in monolayer MoS2 from first principles. *Physical Review B*, **2013**, 87, | 3.3 | 195 |
| 158 | Screening and collective modes in disordered graphene antidot lattices. *Physical Review B*, **2013**, 88, | 3.3 | 11 |
| 157 | Blueshift of the surface plasmon resonance in silver nanoparticles studied with EELS. *Nanophotonics*, **2013**, 2, 131-138 | 6.3 | 149 |
| 156 | Electronic and transport properties of kinked graphene. *Beilstein Journal of Nanotechnology*, **2013**, 4, 103-10 | 3 | 19 |
| 155 | Clar sextets in square graphene antidot lattices. *Physica E: Low-Dimensional Systems and Nanostructures*, **2012**, 44, 967-970 | 3 | 6 |
| 154 | Dynamical polarizability of graphene irradiated by circularly polarized ac electric fields. *Physical Review B*, **2012**, 85, | 3.3 | 52 |

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| 153 | Fundamental limitations to gain enhancement in periodic media and waveguides. *Physical Review Letters*, **2012**, 108, 183903 | 7.4 | 32 |
| 152 | Electronic transport in graphene-based structures: An effective cross-section approach. *Physical Review B*, **2012**, 85, | 3.3 | 11 |
| 151 | Surface-enhanced Raman spectroscopy: nonlocal limitations. *Optics Letters*, **2012**, 37, 2538-40 | 3 | 42 |
| 150 | Nanoplasmonics beyond Ohm's law **2012**, | | 4 |
| 149 | Modified field enhancement and extinction by plasmonic nanowire dimers due to nonlocal response. *Optics Express*, **2012**, 20, 4176-88 | 3.3 | 196 |
| 148 | Microscopic theory of phonon-induced effects on semiconductor quantum dot decay dynamics in cavity QED. *Physical Review B*, **2012**, 86, | 3.3 | 43 |
| 147 | Clar sextet analysis of triangular, rectangular, and honeycomb graphene antidot lattices. *ACS Nano*, **2011**, 5, 523-9 | 16.7 | 88 |
| 146 | Screening in graphene antidot lattices. *Physical Review B*, **2011**, 84, | 3.3 | 13 |
| 145 | Thermoelectric properties of finite graphene antidot lattices. *Physical Review B*, **2011**, 84, | 3.3 | 112 |
| 144 | Electron transport in edge-disordered graphene nanoribbons. *Physical Review B*, **2011**, 83, | 3.3 | 25 |
| 143 | Unusual resonances in nanoplasmonic structures due to nonlocal response. *Physical Review B*, **2011**, 84, | 3.3 | 180 |
| 142 | Field enhancement at metallic interfaces due to quantum confinement. *Journal of Nanophotonics*, **2011**, 5, 051602 | 1.1 | 20 |
| 141 | Plasmonic nanostructures: local versus nonlocal response **2010**, | | 10 |
| 140 | Localized edge vibrations and edge reconstruction by joule heating in graphene nanostructures. *Physical Review Letters*, **2010**, 104, 036807 | 7.4 | 32 |
| 139 | Influence of confining potentials on the exchange coupling in double quantum dots. *Physical Review B*, **2010**, 81, | 3.3 | 4 |
| 138 | Scattering cross section of metal catalyst atoms in silicon nanowires. *Physical Review B*, **2010**, 81, | 3.3 | 8 |
| 137 | Non-markovian model of photon-assisted dephasing by electron-phonon interactions in a coupled quantum-dot-cavity system. *Physical Review Letters*, **2010**, 104, 157401 | 7.4 | 81 |
| 136 | Counting statistics of transport through Coulomb blockade nanostructures: High-order cumulants and non-Markovian effects. *Physical Review B*, **2010**, 82, | 3.3 | 108 |

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| 135 | Slow-light enhanced absorption in a hollow-core fiber. *Optics Express*, **2010**, 18, 14270-9 | 3.3 | 12 |
| 134 | Atomic carbon chains as spin-transmitters: An ab initio transport study. *Europhysics Letters*, **2010**, 91, 37002 | 1.6 | 26 |
| 133 | Ab initio vibrations in nonequilibrium nanowires. *Journal of Physics: Conference Series*, **2010**, 220, 012010 | 0.3 | 1 |
| 132 | Atomistic theory for the damping of vibrational modes in monoatomic gold chains. *Physical Review B*, **2009**, 80, | 3.3 | 17 |
| 131 | Surface-decorated silicon nanowires: a route to high-ZT thermoelectrics. *Physical Review Letters*, **2009**, 103, 055502 | 7.4 | 132 |
| 130 | Corrections to the density-functional theory electronic spectrum: copper phthalocyanine. *Applied Physics A: Materials Science and Processing*, **2009**, 95, 257-263 | 2.6 | 11 |
| 129 | Comparison of electromagnetically induced transparency schemes in semiconductor quantum dot structures: Impact of many-body interactions. *Physical Review B*, **2009**, 79, | 3.3 | 21 |
| 128 | Optical response and excitons in gapped graphene. *Physical Review B*, **2009**, 79, | 3.3 | 65 |
| 127 | Electronic properties of graphene antidot lattices. *New Journal of Physics*, **2009**, 11, 095020 | 2.9 | 118 |
| 126 | Density functional study of graphene antidot lattices: Roles of geometrical relaxation and spin. *Physical Review B*, **2009**, 80, | 3.3 | 52 |
| 125 | Electron and phonon transport in silicon nanowires: Atomistic approach to thermoelectric properties. *Physical Review B*, **2009**, 79, | 3.3 | 154 |
| 124 | Thermal rectification in nonlinear quantum circuits. *Physical Review B*, **2009**, 79, | 3.3 | 79 |
| 123 | Electronic transport properties of fullerene functionalized carbon nanotubes: Ab initio and tight-binding calculations. *Physical Review B*, **2009**, 80, | 3.3 | 27 |
| 122 | Optical properties and optimization of electromagnetically induced transparency in strained InAs/GaAs quantum dot structures. *Physical Review B*, **2009**, 80, | 3.3 | 36 |
| 121 | Ab initio study of spin-dependent transport in carbon nanotubes with iron and vanadium adatoms. *Physical Review B*, **2008**, 78, | 3.3 | 36 |
| 120 | Influence of many-particle interactions on slow light phenomena in quantum dots. *Journal of Physics: Conference Series*, **2008**, 107, 012005 | 0.3 | 4 |
| 119 | Optical properties of graphene antidot lattices. *Physical Review B*, **2008**, 77, | 3.3 | 98 |
| 118 | Heat conductance is strongly anisotropic for pristine silicon nanowires. *Nano Letters*, **2008**, 8, 3771-5 | 11.5 | 82 |

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|---|---|---|---|
| 117 | Graphene antidot lattices: designed defects and spin qubits. *Physical Review Letters*, **2008**, 100, 136804 | 7.4 | 409 |
| 116 | Modeling transport in ultrathin Si nanowires: charged versus neutral impurities. *Nano Letters*, **2008**, 8, 2825-8 | 11.5 | 31 |
| 115 | Counting statistics of non-Markovian quantum stochastic processes. *Physical Review Letters*, **2008**, 100, 150601 | 7.4 | 166 |
| 114 | Mesoscopic photon heat transistor. *Physical Review Letters*, **2008**, 100, 155902 | 7.4 | 77 |
| 113 | Spin qubits in antidot lattices. *Physical Review B*, **2008**, 77, | 3.3 | 13 |
| 112 | Spin-polarized current and shot noise in the presence of spin flip in a quantum dot via nonequilibrium Green functions. *Physical Review B*, **2008**, 78, | 3.3 | 63 |
| 111 | Nanostructure design for surface-enhanced Raman spectroscopy -- prospects and limits. *Journal of the European Optical Society-Rapid Publications*, **2008**, 3, | 2.5 | 13 |
| 110 | Transport in silicon nanowires: role of radial dopant profile. *Journal of Computational Electronics*, **2008**, 7, 324-327 | 1.8 | 15 |
| 109 | Designed defects in 2D antidot lattices for quantum information processing. *Physica E: Low-Dimensional Systems and Nanostructures*, **2008**, 40, 1075-1077 | 3 | 1 |
| 108 | Electronic Transport in Nanowires at Different Length Scales. *Mathematics in Industry*, **2008**, 404-420 | 0.2 | |
| 107 | Scaling theory put into practice: first-principles modeling of transport in doped silicon nanowires. *Physical Review Letters*, **2007**, 99, 076803 | 7.4 | 100 |
| 106 | Inelastic transport theory from first principles: Methodology and application to nanoscale devices. *Physical Review B*, **2007**, 75, | 3.3 | 330 |
| 105 | Failure of standard approximations of the exchange coupling in nanostructures. *Physical Review B*, **2007**, 76, | 3.3 | 29 |
| 104 | Transient charging and discharging of spin-polarized electrons in a quantum dot. *Physical Review B*, **2007**, 76, | 3.3 | 18 |
| 103 | Quantum dot as a spin-current diode: A master-equation approach. *Physical Review B*, **2007**, 75, | 3.3 | 83 |
| 102 | Uskov et al. Reply:. *Physical Review Letters*, **2006**, 96, | 7.4 | 1 |
| 101 | Electronic transport through Si nanowires: Role of bulk and surface disorder. *Physical Review B*, **2006**, 74, | 3.3 | 89 |
| 100 | Modelling of inelastic effects in molecular electronics. *Journal of Physics: Conference Series*, **2006**, 35, 313-323 | 0.3 | 12 |

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| 99 | Quantum computing via defect states in two-dimensional antidot lattices. *Nano Letters*, **2005**, 5, 2515-8 | 11.5 | 20 |
| 98 | Intershell resistance in multiwall carbon nanotubes: A Coulomb drag study. *Physical Review B*, **2005**, 71, | 3.3 | 32 |
| 97 | Simple models suffice for the single-dot quantum shuttle. *New Journal of Physics*, **2005**, 7, 237-237 | 2.9 | 24 |
| 96 | Current noise spectrum of a quantum shuttle. *Physica E: Low-Dimensional Systems and Nanostructures*, **2005**, 29, 411-418 | 3 | 38 |
| 95 | Current and current fluctuations in quantum shuttles. *Physics of Fluids*, **2005**, 17, 100613 | 4.4 | 9 |
| 94 | Noise and Bistabilities in Quantum Shuttles. *AIP Conference Proceedings*, **2005**, | 0 | 2 |
| 93 | Full counting statistics of nano-electromechanical systems. *Europhysics Letters*, **2005**, 69, 475-481 | 1.6 | 118 |
| 92 | TMR effect in a FM-QD-FM system. *Brazilian Journal of Physics*, **2004**, 34, 565-567 | 1.2 | 10 |
| 91 | Quantum theory of shuttling instability in a movable quantum dot array. *Semiconductor Science and Technology*, **2004**, 19, S430-S432 | 1.8 | 5 |
| 90 | Current noise in a vibrating quantum dot array. *Physical Review B*, **2004**, 70, | 3.3 | 97 |
| 89 | Shot noise of a quantum shuttle. *Physical Review Letters*, **2004**, 92, 248302 | 7.4 | 98 |
| 88 | Inelastic scattering and local heating in atomic gold wires. *Physical Review Letters*, **2004**, 93, 256601 | 7.4 | 194 |
| 87 | Modelling of Quantum Electromechanical Systems. *Journal of Computational Electronics*, **2004**, 3, 367-371 | 1.8 | 1 |
| 86 | Modeling of Inelastic Transport in One-Dimensional Metallic Atomic Wires. *Journal of Computational Electronics*, **2004**, 3, 423-427 | 1.8 | 13 |
| 85 | Shuttle instabilities: semiclassical phase analysis. *Physica E: Low-Dimensional Systems and Nanostructures*, **2004**, 22, 721-724 | 3 | 3 |
| 84 | Coulomb drag in multiwall armchair carbon nanotubes. *Semiconductor Science and Technology*, **2004** , 19, S433-S435 | 1.8 | 3 |
| 83 | NONEQUILIBRIUM GREEN FUNCTION MODELLING OF TRANSPORT IN MESOSCOPIC SYSTEMS **2003** , | | 4 |
| 82 | Virtual photon contribution to frictional drag in double-layer devices. *Physics Letters, Section A: General, Atomic and Solid State Physics*, **2003**, 312, 123-129 | 2.3 | 2 |

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| 81 | Quantum shuttle in phase space. *Physical Review Letters*, **2003**, 90, 256801 | 7.4 | 103 |
| 80 | Sign reversal of drag in bilayer systems with in-plane periodic potential modulation. *Physical Review B*, **2002**, 66, | 3.3 | 7 |
| 79 | Mesoscopic fluctuations of Coulomb drag between quasiballistic one-dimensional wires. *Physical Review B*, **2002**, 65, | 3.3 | 14 |
| 78 | Coulomb drag in coherent mesoscopic systems. *Physical Review Letters*, **2001**, 86, 1841-4 | 7.4 | 32 |
| 77 | Dephasing in semiconductor–superconductor structures by coupling to a voltage probe. *Superlattices and Microstructures*, **2000**, 28, 67-76 | 2.8 | 10 |
| 76 | Dephasing times in quantum dots due to elastic LO phonon-carrier collisions. *Physical Review Letters*, **2000**, 85, 1516-9 | 7.4 | 73 |
| 75 | Conductance enhancement in quantum-point-contact semiconductor-superconductor devices. *Physical Review B*, **1999**, 60, 13762-13769 | 3.3 | 7 |
| 74 | Inelastic Quantum Transport in Superlattices: Success and Failure of the Boltzmann Equation. *Physical Review Letters*, **1999**, 83, 836-839 | 7.4 | 56 |
| 73 | Simulations of interference effects in gated two-dimensional ballistic electron systems. *Physical Review B*, **1999**, 60, 8191-8198 | 3.3 | 3 |
| 72 | Resonant tunneling in a pulsed phonon field. *Physical Review B*, **1999**, 59, 7656-7662 | 3.3 | 6 |
| 71 | Angle dependence of Andreev scattering at semiconductor–superconductor interfaces. *Physical Review B*, **1999**, 59, 10176-10182 | 3.3 | 55 |
| 70 | Quasienergy Spectroscopy of Excitons. *Physical Review Letters*, **1999**, 83, 1207-1210 | 7.4 | 48 |
| 69 | Current responsivity of semiconductor superlattice THz-photon detectors. *Journal of Applied Physics*, **1999**, 85, 3643-3654 | 2.5 | 32 |
| 68 | Contact resistance of quantum tubes. *Superlattices and Microstructures*, **1999**, 26, 351-361 | 2.8 | 5 |
| 67 | Transport in Semiconductor Superlattices: From Quantum Kinetics to Terahertz-Photon Detectors **1999**, 171-192 | | |
| 66 | Linear optical absorption spectra of mesoscopic structures in intense THz fields: Free-particle properties. *Physical Review B*, **1998**, 57, 8860-8872 | 3.3 | 58 |
| 65 | Impact of interface roughness on perpendicular transport and domain formation in superlattices. *Superlattices and Microstructures*, **1998**, 23, 297-300 | 2.8 | 6 |
| 64 | Strong impact of impurity bands on domain formation in superlattices. *Physica E: Low-Dimensional Systems and Nanostructures*, **1998**, 2, 493-497 | 3 | |

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| 63 | Excitonic Dynamical Franz-Keldysh Effect. *Physical Review Letters*, **1998**, 81, 457-460 | 7.4 | 156 |
| 62 | Quantum Transport: The Link between Standard Approaches in Superlattices. *Physical Review Letters*, **1998**, 80, 369-372 | 7.4 | 97 |
| 61 | Theory of phase-sensitive measurement of photon-assisted tunneling through a quantum dot. *Physical Review B*, **1998**, 58, 9619-9622 | 3.3 | 23 |
| 60 | Microscopic Theory of Transconductivity. *VLSI Design*, **1998**, 6, 87-90 | | |
| 59 | Quantum transport theory **1998**, 127-171 | | 1 |
| 58 | Frictional Coulomb drag in strong magnetic fields. *Physical Review B*, **1997**, 56, 10314-10325 | 3.3 | 24 |
| 57 | Sequential tunneling in doped superlattices: Fingerprints of impurity bands and photon-assisted tunneling. *Physical Review B*, **1997**, 56, 13268-13278 | 3.3 | 28 |
| 56 | Microscopic modelling of perpendicular electronic transport in doped multiple quantum wells. *Physica Scripta*, **1997**, T69, 321-324 | 2.6 | 12 |
| 55 | Nonequilibrium absorption in semiconductors and the dynamical Franz-Keldysh effect. *Physica Scripta*, **1997**, T69, 177-180 | 2.6 | 2 |
| 54 | Observation of Dynamical Franz-Keldysh Effect. *Physica Status Solidi (B): Basic Research*, **1997**, 204, 52-54 | 1.3 | 19 |
| 53 | Linear Optical Absorption in THz Irradiated Undoped Semiconductor Superlattices. *Physica Status Solidi (B): Basic Research*, **1997**, 204, 55-57 | 1.3 | 3 |
| 52 | Transport in a Weakly-Coupled Superlattice: A Quantitative Approach for Photon-Assisted Tunneling. *Physica Status Solidi (B): Basic Research*, **1997**, 204, 73-76 | 1.3 | 4 |
| 51 | Possible THz Gain in Superlattices at a Stable Operation Point. *Physica Status Solidi (B): Basic Research*, **1997**, 204, 95-97 | 1.3 | 9 |
| 50 | Optics of Excitons in THz Irradiated Quantum Wells. *Physica Status Solidi A*, **1997**, 164, 553-556 | | 6 |
| 49 | Dynamical Franz-Keldysh effect. *Physical Review Letters*, **1996**, 76, 4576-4579 | 7.4 | 169 |
| 48 | Magneto-Coulomb Drag: Interplay of Electron-Electron Interactions and Landau Quantization. *Physical Review Letters*, **1996**, 77, 1366-1369 | 7.4 | 54 |
| 47 | Theory of coherent time-dependent transport in one-dimensional multiband semiconductor superlattices. *Physical Review B*, **1996**, 54, 17691-17700 | 3.3 | 49 |
| 46 | Transport Studies in Semiconductor Heterostructures **1996**, 439-457 | | |

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|---|---|---|---|
| 45 | Coherent transport in superlattices and tunneling structures. *Physica Status Solidi (B): Basic Research*, **1995**, 188, 405-415 | 1.3 | 2 |
| 44 | Linear-response theory of Coulomb drag in coupled electron systems. *Physical Review B*, **1995**, 52, 14761-14774 | 3.3 | 89 |
| 43 | Bloch oscillations, Zener tunneling, and Wannier-Stark ladders in the time domain. *Physical Review Letters*, **1995**, 74, 1831-1834 | 7.4 | 96 |
| 42 | Interacting and Coherent Time-Dependent Transport in Semiconductor Heterostructures. *NATO ASI Series Series B: Physics*, **1995**, 301-327 | | |
| 41 | Plasma instabilities in high electric fields. *Physical Review E*, **1994**, 50, 474-479 | 2.4 | 13 |
| 40 | Time-dependent transport in interacting and noninteracting resonant-tunneling systems. *Physical Review B*, **1994**, 50, 5528-5544 | 3.3 | 1531 |
| 39 | Time-dependent transport in mesoscopic systems: general formalism and applications. *Semiconductor Science and Technology*, **1994**, 9, 926-929 | 1.8 | 9 |
| 38 | Time-dependent transport through a mesoscopic structure. *Physical Review B*, **1993**, 48, 8487-8490 | 3.3 | 283 |
| 37 | Coulomb drag between parallel two-dimensional electron systems. *Physical Review B*, **1993**, 47, 4420-4428 | 3.3 | 208 |
| 36 | Numerical studies of tunneling in a nonharmonic time-dependent potential. *Physical Review B*, **1993**, 47, 10446-10451 | 3.3 | 6 |
| 35 | Gauge-invariant description of nonlinear quantum transport of weakly coupled electron-phonon systems in uniform electric fields. *Semiconductor Science and Technology*, **1992**, 7, B33-B35 | 1.8 | 1 |
| 34 | Quantum transport theory for electron-phonon systems in strong electric fields. *Physical Review Letters*, **1992**, 68, 2826-2829 | 7.4 | 10 |
| 33 | Self-consistent modelling of resonant tunnelling structures. *Surface Science*, **1992**, 267, 392-395 | 1.8 | 14 |
| 32 | Green Function Methods: Nonequilibrium, High-Field Transport **1992**, 141-168 | | |
| 31 | Wave Packet Studies of Tunneling through Time-Modulated Semiconductor Heterostructures **1992**, 179-192 | | |
| 30 | Gauge-invariant formulation of the intracollisional field effect including collisional broadening. *Physical Review B*, **1991**, 44, 3655-3664 | 3.3 | 53 |
| 29 | Self-consistent model for two-dimensional accumulation layer states in resonant tunneling devices. *Applied Physics Letters*, **1991**, 59, 2245-2247 | 3.4 | 14 |
| 28 | . *IEEE Photonics Technology Letters*, **1991**, 3, 606-609 | 2.2 | 130 |

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| 27 | Nonequilibrium Green Function Techniques Applied to Hot-Electron Quantum Transport. *NATO ASI Series Series B: Physics*, **1991**, 133-144 | | 3 |
| 26 | Elastic and Inelastic Resonant Tunneling in an Imperfect Superlattice. *NATO ASI Series Series B: Physics*, **1991**, 535-537 | | |
| 25 | Elastic and inelastic resonant tunnelling in narrow-band systems: application to transport in minibands of semiconductor superlattices. *Journal of Physics Condensed Matter*, **1990**, 2, 8725-8729 | 1.8 | 11 |
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