

Qian Niu

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

159
papers

22,053
citations

67
h-index

148
g-index

166
ext. papers

25,679
ext. citations

5.9
avg, IF

7.07
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 159 | Phonon Magnetic Moment from Electronic Topological Magnetization. <i>Physical Review Letters</i> , 2021 , 127, 186403 | 7.4 | 2 |
| 158 | Giant c-axis nonlinear anomalous Hall effect in T-MoTe and WTe. <i>Nature Communications</i> , 2021 , 12, 2049 | 7.4 | 8 |
| 157 | Berry Curvature Effects on Quasiparticle Dynamics in Superconductors. <i>Physical Review Letters</i> , 2021 , 126, 187001 | 7.4 | 1 |
| 156 | Floquet-Bloch Oscillations and Intraband Zener Tunneling in an Oblique Spacetime Crystal. <i>Physical Review Letters</i> , 2021 , 127, 036401 | 7.4 | 0 |
| 155 | Van der Waals heterostructure Pt ₂ HgSe ₃ /CrI ₃ for topological valleytronics. <i>Physical Review B</i> , 2021 , 104, | 3.3 | 1 |
| 154 | WKB Estimate of Bilayer Graphene's Magic Twist Angles. <i>Physical Review Letters</i> , 2021 , 126, 016404 | 7.4 | 9 |
| 153 | Thermoelectric generation of orbital magnetization in metals. <i>Physical Review B</i> , 2021 , 103, | 3.3 | 4 |
| 152 | Josephson radiation from nonlinear dynamics of Majorana zero modes. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 1 |
| 151 | Linear magnetoresistance induced by intra-scattering semiclassics of Bloch electrons. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 6 |
| 150 | Unified bulk semiclassical theory for intrinsic thermal transport and magnetization currents. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 6 |
| 149 | Manipulating anomalous Hall antiferromagnets with magnetic fields. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 5 |
| 148 | Out-of-plane carrier spin in transition-metal dichalcogenides under electric current. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 16749-16755 | 11.5 | 3 |
| 147 | Berry Phase Effects in Dipole Density and the Mott Relation. <i>Physical Review Letters</i> , 2020 , 124, 066601 | 7.4 | 6 |
| 146 | Engineering Corner States from Two-Dimensional Topological Insulators. <i>Physical Review Letters</i> , 2020 , 124, 166804 | 7.4 | 22 |
| 145 | Advances on topological materials. <i>Frontiers of Physics</i> , 2020 , 15, 1 | 3.7 | 4 |
| 144 | Attractive electron-electron interaction induced by geometric phase in a Bloch band. <i>Science China: Physics, Mechanics and Astronomy</i> , 2020 , 63, 1 | 3.6 | 0 |
| 143 | Behavior of superconductivity in a Pb/Ag heterostructure. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 3 |

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| 142 | Temperature dependence of the side-jump spin Hall conductivity. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 3 |
| 141 | Valley-contrasting orbital magnetic moment induced negative magnetoresistance. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 3 |
| 140 | Theory of the phonon side-jump contribution in anomalous Hall effect. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 2 |
| 139 | Scaling parameters in anomalous and nonlinear Hall effects depend on temperature. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 6 |
| 138 | Theory of nonlinear Hall effects: Modified semiclassics from quantum kinetics. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 29 |
| 137 | Chiral phonons in two-dimensional materials. <i>2D Materials</i> , 2019 , 6, 012002 | 5.9 | 17 |
| 136 | Electronic contribution to the geometric dynamics of magnetization. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 1 |
| 135 | Geometrodynamics of electrons in a crystal under position and time-dependent deformation. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 8 |
| 134 | Hysteresis from nonlinear dynamics of Majorana modes in topological Josephson junctions. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 9 |
| 133 | Chiral anomaly and anomalous finite-size conductivity in graphene. <i>2D Materials</i> , 2017 , 4, 035014 | 5.9 | 1 |
| 132 | Rashba torque beyond the Boltzmann regime. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 5 |
| 131 | Semiclassical theory of spin-orbit torques in disordered multiband electron systems. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 12 |
| 130 | Intrinsic relative magnetoconductivity of nonmagnetic metals. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 29 |
| 129 | Zero-field magnetic response functions in Landau levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 7295-7300 | 11.5 | 15 |
| 128 | Topological phase transitions in thin films by tuning multivalley boundary-state couplings. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 5 |
| 127 | Observation of long phase-coherence length in epitaxial La-doped CdO thin films. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 7 |
| 126 | Uncovering edge states and electrical inhomogeneity in MoS2 field-effect transistors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 8583-8 | 11.5 | 72 |
| 125 | Anderson Localization from the Berry-Curvature Interchange in Quantum Anomalous Hall Systems. <i>Physical Review Letters</i> , 2016 , 117, 056802 | 7.4 | 18 |

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|-----|---|------|-----|
| 124 | Quantum stability and magic lengths of metal atom wires. <i>Physical Review B</i> , 2016 , 93, | 3-3 | 7 |
| 123 | Topological phases in two-dimensional materials: a review. <i>Reports on Progress in Physics</i> , 2016 , 79, 066501. | 4.4 | 253 |
| 122 | Geometrical effects in orbital magnetic susceptibility. <i>Physical Review B</i> , 2015 , 91, | 3-3 | 67 |
| 121 | Multivariable scaling for the anomalous Hall effect. <i>Physical Review Letters</i> , 2015 , 114, 217203 | 7.4 | 74 |
| 120 | Single-valley engineering in graphene superlattices. <i>Physical Review B</i> , 2015 , 91, | 3-3 | 44 |
| 119 | Giant and tunable valley degeneracy splitting in MoTe ₂ . <i>Physical Review B</i> , 2015 , 92, | 3-3 | 196 |
| 118 | Chiral phonons at high-symmetry points in monolayer hexagonal lattices. <i>Physical Review Letters</i> , 2015 , 115, 115502 | 7.4 | 114 |
| 117 | Large magneto-optical Kerr effect in noncollinear antiferromagnets Mn ₃ X(X=Rh,Ir,Pt). <i>Physical Review B</i> , 2015 , 92, | 3-3 | 60 |
| 116 | Superlattice valley engineering for designer topological insulators. <i>Scientific Reports</i> , 2014 , 4, 6397 | 4.9 | 24 |
| 115 | Anomalous Hall effect arising from noncollinear antiferromagnetism. <i>Physical Review Letters</i> , 2014 , 112, 017205 | 7.4 | 360 |
| 114 | Quantum anomalous Hall effect in graphene proximity coupled to an antiferromagnetic insulator. <i>Physical Review Letters</i> , 2014 , 112, 116404 | 7.4 | 273 |
| 113 | Spin pumping and spin-transfer torques in antiferromagnets. <i>Physical Review Letters</i> , 2014 , 113, 057601 | 7.4 | 227 |
| 112 | Dynamics of antiferromagnets driven by spin current. <i>Physical Review B</i> , 2014 , 89, | 3-3 | 42 |
| 111 | Valley-splitting and valley-dependent inter-Landau-level optical transitions in monolayer MoS ₂ quantum Hall systems. <i>Physical Review B</i> , 2014 , 90, | 3-3 | 60 |
| 110 | Current Partition at Topological Channel Intersections. <i>Physical Review Letters</i> , 2014 , 112, | 7.4 | 45 |
| 109 | Quantum spin Hall insulators and quantum valley Hall insulators of BiX/SbX (X=H, F, Cl and Br) monolayers with a record bulk band gap. <i>NPG Asia Materials</i> , 2014 , 6, e147-e147 | 10.3 | 216 |
| 108 | Field induced positional shift of Bloch electrons and its dynamical implications. <i>Physical Review Letters</i> , 2014 , 112, 166601 | 7.4 | 88 |
| 107 | Angular Momentum of Phonons and the Einstein-De Haas Effect. <i>Physical Review Letters</i> , 2014 , 112, | 7.4 | 85 |

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| 106 | Spontaneous layer-pseudospin domain walls in bilayer graphene. <i>Physical Review Letters</i> , 2014 , 113, 116803 | 3.3 | 24 |
| 105 | Microscopic derivation of spin-transfer torque in ferromagnets. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 9 |
| 104 | Topological classification of crystalline insulators with space group symmetry. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 111 |
| 103 | Magnetic control of the valley degree of freedom of massive Dirac fermions with application to transition metal dichalcogenides. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 87 |
| 102 | Topological phases in gated bilayer graphene: Effects of Rashba spin-orbit coupling and exchange field. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 33 |
| 101 | Evidence for Berezinskii-Kosterlitz-Thouless transition in atomically flat two-dimensional Pb superconducting films. <i>Solid State Communications</i> , 2013 , 165, 59-63 | 1.6 | 36 |
| 100 | Unconventional quantum Hall effect and tunable spin hall effect in Dirac materials: application to an isolated MoS2 trilayer. <i>Physical Review Letters</i> , 2013 , 110, 066803 | 7.4 | 141 |
| 99 | Topological Invariants of Metals and the Related Physical Effects. <i>Chinese Physics Letters</i> , 2013 , 30, 027108 | 1.6 | 93 |
| 98 | Gate-tunable exchange coupling between cobalt clusters on graphene. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 26 |
| 97 | Tuning into the Kitaev spin liquid phase: A spin model on the honeycomb lattice with two types of Heisenberg exchange couplings. <i>Physical Review B</i> , 2013 , 87, | 3.3 | 11 |
| 96 | Coupling the valley degree of freedom to antiferromagnetic order. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3738-42 | 11.5 | 167 |
| 95 | Stabilizing topological phases in graphene via random adsorption. <i>Physical Review Letters</i> , 2012 , 109, 116803 | 7.4 | 89 |
| 94 | Transport properties of graphene nanoroads in boron nitride sheets. <i>Nano Letters</i> , 2012 , 12, 2936-40 | 11.5 | 77 |
| 93 | Valley-selective circular dichroism of monolayer molybdenum disulphide. <i>Nature Communications</i> , 2012 , 3, 887 | 17.4 | 1702 |
| 92 | Microscopic theory of quantum anomalous Hall effect in graphene. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 115 |
| 91 | Electron dynamics in slowly varying antiferromagnetic texture. <i>Physical Review B</i> , 2012 , 86, | 3.3 | 45 |
| 90 | Unbalanced edge modes and topological phase transition in gated trilayer graphene. <i>Physical Review B</i> , 2012 , 85, | 3.3 | 18 |
| 89 | Quantum anomalous Hall effect in single-layer and bilayer graphene. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 174 |

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| 88 | Engineering quantum anomalous/valley Hall states in graphene via metal-atom adsorption: An ab-initio study. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 188 |
| 87 | Spontaneous quantum Hall states in chirally stacked few-layer graphene systems. <i>Physical Review Letters</i> , 2011 , 106, 156801 | 7.4 | 326 |
| 86 | Scattering universality classes of side jump in the anomalous Hall effect. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 39 |
| 85 | Spin-polarized and valley helical edge modes in graphene nanoribbons. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 43 |
| 84 | Energy magnetization and the thermal Hall effect. <i>Physical Review Letters</i> , 2011 , 107, 236601 | 7.4 | 110 |
| 83 | Superconducting phase with a chiral f-wave pairing symmetry and Majorana fermions induced in a hole-doped semiconductor. <i>Physical Review Letters</i> , 2011 , 106, 157003 | 7.4 | 31 |
| 82 | Crossover of the three-dimensional topological insulator Bi ₂ Se ₃ to the two-dimensional limit. <i>Nature Physics</i> , 2010 , 6, 584-588 | 16.2 | 1048 |
| 81 | Geometric optics of Bloch waves in a chiral and dissipative medium. <i>Physical Review A</i> , 2010 , 81, | 2.6 | 11 |
| 80 | Massive Dirac fermions and spin physics in an ultrathin film of topological insulator. <i>Physical Review B</i> , 2010 , 81, | 3.3 | 427 |
| 79 | Quantum anomalous Hall effect in graphene from Rashba and exchange effects. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 461 |
| 78 | Topological electromotive force from domain-wall dynamics in a ferromagnet. <i>Physical Review B</i> , 2010 , 82, | 3.3 | 34 |
| 77 | Berry phase effects on electronic properties. <i>Reviews of Modern Physics</i> , 2010 , 82, 1959-2007 | 40.5 | 2374 |
| 76 | Semiclassical dynamics and transport of the Dirac spin. <i>Solid State Communications</i> , 2010 , 150, 533-537 | 1.6 | 29 |
| 75 | Ultrahigh-fidelity qubits for quantum computing. <i>Physical Review A</i> , 2009 , 80, | 2.6 | 8 |
| 74 | Polarization and adiabatic pumping in inhomogeneous crystals. <i>Physical Review Letters</i> , 2009 , 102, 087602 | 7.4 | 46 |
| 73 | Universal electromotive force induced by domain wall motion. <i>Physical Review Letters</i> , 2009 , 102, 067201 | 7.4 | 145 |
| 72 | Edge states in graphene: from gapped flat-band to gapless chiral modes. <i>Physical Review Letters</i> , 2009 , 102, 096801 | 7.4 | 253 |
| 71 | Superconductivity at the two-dimensional limit. <i>Science</i> , 2009 , 324, 1314-7 | 33.3 | 248 |

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|----|---|-----|------|
| 70 | Magnetoelectric coupling and electric control of magnetization in ferromagnet/ferroelectric/normal-metal superlattices. <i>Physical Review B</i> , 2009 , 80, | 3.3 | 86 |
| 69 | Berry curvature, orbital moment, and effective quantum theory of electrons in electromagnetic fields. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 193202 | 1.8 | 90 |
| 68 | Valley-dependent optoelectronics from inversion symmetry breaking. <i>Physical Review B</i> , 2008 , 77, | 3.3 | 615 |
| 67 | Finite size effects on helical edge states in a quantum spin-Hall system. <i>Physical Review Letters</i> , 2008 , 101, 246807 | 7.4 | 340 |
| 66 | Berry phase effect on the exciton transport and on the exciton Bose-Einstein condensate. <i>Physical Review Letters</i> , 2008 , 101, 106401 | 7.4 | 44 |
| 65 | Partial entropy in finite-temperature phase transitions. <i>Physical Review B</i> , 2007 , 75, | 3.3 | 10 |
| 64 | Theoretical evidence of the Berry-phase mechanism in anomalous Hall transport: First-principles studies of CuCr ₂ Se ₄ Br _x . <i>Physical Review B</i> , 2007 , 75, | 3.3 | 25 |
| 63 | Optical control of topological quantum transport in semiconductors. <i>Physical Review Letters</i> , 2007 , 99, 047401 | 7.4 | 48 |
| 62 | Quantum theory of orbital magnetization and its generalization to interacting systems. <i>Physical Review Letters</i> , 2007 , 99, 197202 | 7.4 | 134 |
| 61 | Valley-contrasting physics in graphene: magnetic moment and topological transport. <i>Physical Review Letters</i> , 2007 , 99, 236809 | 7.4 | 1273 |
| 60 | Xiao et al. Reply:. <i>Physical Review Letters</i> , 2006 , 96, | 7.4 | 8 |
| 59 | Influence of quantum size effects on Pb island growth and diffusion barrier oscillations. <i>Physical Review B</i> , 2006 , 74, | 3.3 | 18 |
| 58 | Transition to instability in a periodically kicked Bose-Einstein condensate on a ring. <i>Physical Review A</i> , 2006 , 73, | 2.6 | 61 |
| 57 | Linear magnetization dependence of the intrinsic anomalous Hall effect. <i>Physical Review Letters</i> , 2006 , 96, 037204 | 7.4 | 136 |
| 56 | Minimal field requirement in precessional magnetization switching. <i>Journal of Applied Physics</i> , 2006 , 99, 013903 | 2.5 | 18 |
| 55 | Geometrical phase effects on the Wigner distribution of Bloch electrons. <i>Physical Review B</i> , 2006 , 74, | 3.3 | 7 |
| 54 | Imaging of critical correlations in optical lattices and atomic traps. <i>Physical Review A</i> , 2006 , 73, | 2.6 | 21 |
| 53 | Berry phase effects on the dynamics of quasiparticles in a superfluid with a vortex. <i>Physical Review Letters</i> , 2006 , 97, 040401 | 7.4 | 21 |

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| 52 | Berry-phase effect in anomalous thermoelectric transport. <i>Physical Review Letters</i> , 2006 , 97, 026603 | 7.4 | 272 |
| 51 | Disorder effects in the anomalous Hall effect induced by Berry curvature. <i>Physical Review B</i> , 2005 , 72, | 3.3 | 75 |
| 50 | Coherent wave-packet evolution in coupled bands. <i>Physical Review B</i> , 2005 , 72, | 3.3 | 73 |
| 49 | Berry phase correction to electron density of states in solids. <i>Physical Review Letters</i> , 2005 , 95, 137204 | 7.4 | 318 |
| 48 | Fidelity for the quantum evolution of a Bose-Einstein condensate. <i>Physical Review A</i> , 2005 , 72, | 2.6 | 51 |
| 47 | Charge Hall effect driven by spin-dependent chemical potential gradients and Onsager relations in mesoscopic systems. <i>Physical Review B</i> , 2005 , 72, | 3.3 | 64 |
| 46 | Electrical generation of spin in crystals with reduced symmetry. <i>Physical Review B</i> , 2005 , 72, | 3.3 | 17 |
| 45 | First principles calculation of anomalous Hall conductivity in ferromagnetic bcc Fe. <i>Physical Review Letters</i> , 2004 , 92, 037204 | 7.4 | 545 |
| 44 | Spin-orbit coupling and Berry phase with ultracold atoms in 2D optical lattices. <i>Physical Review Letters</i> , 2004 , 92, 153005 | 7.4 | 80 |
| 43 | Superconductivity modulated by quantum size effects. <i>Science</i> , 2004 , 306, 1915-7 | 33.3 | 485 |
| 42 | Dc-transport properties of ferromagnetic (Ga,Mn)As semiconductors. <i>Applied Physics Letters</i> , 2003 , 83, 320-322 | 3.4 | 94 |
| 41 | Anomalous Hall effect in paramagnetic two-dimensional systems. <i>Physical Review B</i> , 2003 , 68, | 3.3 | 107 |
| 40 | Negative differential magnetization in ultrathin Fe on vicinal W(100). <i>Physical Review B</i> , 2003 , 67, | 3.3 | 7 |
| 39 | Nonlinear evolution of quantum states in the adiabatic regime. <i>Physical Review Letters</i> , 2003 , 90, 170404 | 7.4 | 182 |
| 38 | The Geometric Phase in Quantum Systems 2003 , | | 299 |
| 37 | Quantum step heights in hysteresis loops of molecular magnets. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 47 |
| 36 | Anomalous Hall effect in ferromagnetic semiconductors. <i>Physical Review Letters</i> , 2002 , 88, 207208 | 7.4 | 618 |
| 35 | Electron dynamics in slowly modulated crystals: theorems of power and adiabatic drifting. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2001 , 9, 327-332 | 3 | 1 |

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|----|---|-----|-----|
| 34 | Shape of the quantum diffusion front. <i>Physical Review Letters</i> , 2001 , 86, 2485-9 | 7.4 | 30 |
| 33 | Transition between extended and localized states in a one-dimensional incommensurate optical lattice. <i>Physical Review A</i> , 2001 , 64, | 2.6 | 57 |
| 32 | Metallic phase in quantum Hall systems due to inter-Landau-band mixing. <i>Physical Review Letters</i> , 2001 , 87, 216802 | 7.4 | 25 |
| 31 | Landau and dynamical instabilities of the superflow of Bose-Einstein condensates in optical lattices. <i>Physical Review A</i> , 2001 , 64, | 2.6 | 317 |
| 30 | Screening, Nonadiabaticity, and Quantized Acoustoelectric Current. <i>Journal of Low Temperature Physics</i> , 2000 , 118, 571-577 | 1.3 | 3 |
| 29 | Morphological symmetry breaking during epitaxial growth at grazing incidence. <i>Physical Review Letters</i> , 2000 , 84, 3895-8 | 7.4 | 8 |
| 28 | AC and DC fields in optical lattices: quasienergy band structure. <i>Journal of Optics B: Quantum and Semiclassical Optics</i> , 2000 , 2, 618-627 | | 6 |
| 27 | Nonlinear effects in interference of bose-einstein condensates. <i>Physical Review Letters</i> , 2000 , 84, 2294-7.4 | 7.4 | 173 |
| 26 | Manipulation of band electrons with a rectangular-wave electric field. <i>Journal of Physics Condensed Matter</i> , 1999 , 11, 4527-4538 | 1.8 | 18 |
| 25 | Bose-Einstein Condensates in an Optical Lattice. <i>Physical Review Letters</i> , 1999 , 82, 2022-2025 | 7.4 | 200 |
| 24 | Wave-packet dynamics in slowly perturbed crystals: Gradient corrections and Berry-phase effects. <i>Physical Review B</i> , 1999 , 59, 14915-14925 | 3.3 | 617 |
| 23 | Quantum Effect in Metal Overlayers on Semiconductor Substrates. <i>Series on Directions in Condensed Matter Physics</i> , 1999 , 149-173 | | |
| 22 | Spin-Wave Dynamics in Real Crystals. <i>Physical Review Letters</i> , 1998 , 80, 2205-2208 | 7.4 | 91 |
| 21 | Electronic Growth of Metallic Overlayers on Semiconductor Substrates. <i>Physical Review Letters</i> , 1998 , 80, 5381-5384 | 7.4 | 336 |
| 20 | Observation of Rabi oscillations between Bloch bands in an optical potential. <i>Physical Review A</i> , 1998 , 58, R2648-R2651 | 2.6 | 44 |
| 19 | Oscillatory Nonmetal-Metal Transitions of Ultrathin Sb Overlayers on a GaAs(110) Substrate. <i>Physical Review Letters</i> , 1998 , 80, 3582-3585 | 7.4 | 21 |
| 18 | Dynamical Bloch Band Suppression in an Optical Lattice. <i>Physical Review Letters</i> , 1998 , 81, 5093-5096 | 7.4 | 146 |
| 17 | New Light on Quantum Transport. <i>Physics Today</i> , 1997 , 50, 30-34 | 0.9 | 145 |

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|----|--|------|-----|
| 16 | Experimental evidence for non-exponential decay in quantum tunnelling. <i>Nature</i> , 1997 , 387, 575-577 | 50.4 | 133 |
| 15 | Berry phase, hyperorbits, and the Hofstadter spectrum: Semiclassical dynamics in magnetic Bloch bands. <i>Physical Review B</i> , 1996 , 53, 7010-7023 | 3.3 | 349 |
| 14 | Quasi-energy spectrum of multiband superlattices in dc-ac electric fields. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1996 , 222, 435-439 | 2.3 | 6 |
| 13 | Observation of atomic Wannier-Stark ladders in an accelerating optical potential. <i>Physical Review Letters</i> , 1996 , 76, 4512-4515 | 7.4 | 345 |
| 12 | Atomic Landau-Zener tunneling and Wannier-Stark ladders in optical potentials. <i>Physical Review Letters</i> , 1996 , 76, 4504-4507 | 7.4 | 162 |
| 11 | Transverse force on a quantized vortex in a superfluid. <i>Physical Review Letters</i> , 1996 , 76, 3758-3761 | 7.4 | 104 |
| 10 | Rabi oscillations between Bloch bands. <i>Physical Review B</i> , 1996 , 54, R5235-R5238 | 3.3 | 57 |
| 9 | Electron depletion due to bias of a T-shaped field-effect transistor. <i>Journal of Applied Physics</i> , 1995 , 78, 640-646 | 2.5 | |
| 8 | Berry phase, hyperorbits, and the Hofstadter spectrum. <i>Physical Review Letters</i> , 1995 , 75, 1348-1351 | 7.4 | 162 |
| 7 | PRECISION OF A QUANTUM CHARGE PUMP NEAR THE ADIABATIC REGIME. <i>International Journal of Modern Physics B</i> , 1994 , 08, 3987-4006 | 1.1 | |
| 6 | CONNECTIONS BETWEEN THE QUANTUM HALL EFFECT AND CONFORMAL FIELD THEORY. <i>Modern Physics Letters A</i> , 1992 , 07, 2837-2849 | 1.3 | |
| 5 | THEORY OF THE QUANTIZED ADIABATIC PARTICLE TRANSPORT. <i>Modern Physics Letters B</i> , 1991 , 05, 923-931 | 1.6 | 27 |
| 4 | Effect of an electric field on a split Bloch band. <i>Physical Review B</i> , 1989 , 40, 3625-3637 | 3.3 | 19 |
| 3 | Quantum Hall effect with realistic boundary conditions. <i>Physical Review B</i> , 1987 , 35, 2188-2197 | 3.3 | 71 |
| 2 | Coupling of source and drain to a quantum Hall system. <i>Physical Review B</i> , 1986 , 33, 3785-3792 | 3.3 | 1 |
| 1 | Quantized Hall conductance as a topological invariant. <i>Physical Review B</i> , 1985 , 31, 3372-3377 | 3.3 | 699 |