

Laurens Molenkamp

List of Publications by Year in descending order

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457
papers

27,640
citations

9756

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6282

158
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464
all docs

464
docs citations

464
times ranked

15256
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Quantum Spin Hall Insulator State in HgTe Quantum Wells. <i>Science</i> , 2007, 318, 766-770. | 6.0 | 5,070 |
| 2 | Fundamental obstacle for electrical spin injection from a ferromagnetic metal into a diffusive semiconductor. <i>Physical Review B</i> , 2000, 62, R4790-R4793. | 1.1 | 1,815 |
| 3 | Injection and detection of a spin-polarized current in a light-emitting diode. <i>Nature</i> , 1999, 402, 787-790. | 13.7 | 1,755 |
| 4 | Topoelectrical-circuit realization of topological corner modes. <i>Nature Physics</i> , 2018, 14, 925-929. | 6.5 | 776 |
| 5 | Nonlocal Transport in the Quantum Spin Hall State. <i>Science</i> , 2009, 325, 294-297. | 6.0 | 772 |
| 6 | The Quantum Spin Hall Effect: Theory and Experiment. <i>Journal of the Physical Society of Japan</i> , 2008, 77, 031007. | 0.7 | 675 |
| 7 | Quantum Hall Effect from the Topological Surface States of Strained Bulk HgTe. <i>Physical Review Letters</i> , 2011, 106, 126803. | 2.9 | 427 |
| 8 | Suppression of the persistent spin Hall current by defect scattering. <i>Physical Review B</i> , 2004, 70, . | 1.1 | 382 |
| 9 | Tunneling Anisotropic Magnetoresistance: A Spin-Valve-Like Tunnel Magnetoresistance Using a Single Magnetic Layer. <i>Physical Review Letters</i> , 2004, 93, 117203. | 2.9 | 355 |
| 10 | \hbar -periodic Josephson supercurrent in HgTe-based topological Josephson junctions. <i>Nature Communications</i> , 2016, 7, 10303. | 5.8 | 301 |
| 11 | Induced superconductivity in the quantum spin Hall edge. <i>Nature Physics</i> , 2014, 10, 638-643. | 6.5 | 292 |
| 12 | Band structure of semimagnetic Hg _{1-x} MnyTe quantum wells. <i>Physical Review B</i> , 2005, 72, . | 1.1 | 264 |
| 13 | Spin polarization of the quantum spin Hall edge states. <i>Nature Physics</i> , 2012, 8, 485-490. | 6.5 | 264 |
| 14 | Voltage-Controlled Spin Selection in a Magnetic Resonant Tunneling Diode. <i>Physical Review Letters</i> , 2003, 90, 246601. | 2.9 | 250 |
| 15 | Giant oscillator strength of free excitons in GaAs. <i>Physical Review B</i> , 1987, 35, 8281-8284. | 1.1 | 244 |
| 16 | Hydrodynamic electron flow in high-mobility wires. <i>Physical Review B</i> , 1995, 51, 13389-13402. | 1.1 | 240 |
| 17 | Single valley Dirac fermions in zero-gap HgTe quantum wells. <i>Nature Physics</i> , 2011, 7, 418-422. | 6.5 | 238 |
| 18 | Gapless Andreev bound states in the quantum spin Hall insulator HgTe. <i>Nature Nanotechnology</i> , 2017, 12, 137-143. | 15.6 | 237 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 19 | Imaging currents in HgTe quantum wells in the quantum spin Hall regime. <i>Nature Materials</i> , 2013, 12, 787-791. | 13.3 | 230 |
| 20 | Resonant Tunneling Through Two Discrete Energy States. <i>Physical Review Letters</i> , 1995, 74, 4702-4705. | 2.9 | 226 |
| 21 | Topological superconductivity in a phase-controlled Josephson junction. <i>Nature</i> , 2019, 569, 93-98. | 13.7 | 225 |
| 22 | Thermopower of a Kondo Spin-Correlated Quantum Dot. <i>Physical Review Letters</i> , 2005, 95, 176602. | 2.9 | 216 |
| 23 | Diffuse transport and spin accumulation in a Rashba two-dimensional electron gas. <i>Physical Review B</i> , 2003, 67, . | 1.1 | 208 |
| 24 | Three-terminal energy harvester with coupled quantum dots. <i>Nature Nanotechnology</i> , 2015, 10, 854-858. | 15.6 | 199 |
| 25 | Coulomb-Blockade Oscillations in the Thermopower of a Quantum Dot. <i>Europhysics Letters</i> , 1993, 22, 57-62. | 0.7 | 195 |
| 26 | Bias-induced threshold voltages shifts in thin-film organic transistors. <i>Applied Physics Letters</i> , 2004, 84, 3184-3186. | 1.5 | 189 |
| 27 | Quantum dot as thermal rectifier. <i>New Journal of Physics</i> , 2008, 10, 083016. | 1.2 | 189 |
| 28 | Quantum oscillations in the transverse voltage of a channel in the nonlinear transport regime. <i>Physical Review Letters</i> , 1990, 65, 1052-1055. | 2.9 | 183 |
| 29 | Direct Observation of the Aharonov-Casher Phase. <i>Physical Review Letters</i> , 2006, 96, 076804. | 2.9 | 182 |
| 30 | Rashba Hamiltonian and electron transport. <i>Physical Review B</i> , 2001, 64, . | 1.1 | 173 |
| 31 | Thermo-electric properties of quantum point contacts. <i>Semiconductor Science and Technology</i> , 1992, 7, B215-B221. | 1.0 | 159 |
| 32 | Temperature dependent magnetic anisotropy in (Ga,Mn)As layers. <i>Physical Review B</i> , 2004, 70, . | 1.1 | 155 |
| 33 | Peltier coefficient and thermal conductance of a quantum point contact. <i>Physical Review Letters</i> , 1992, 68, 3765-3768. | 2.9 | 152 |
| 34 | Fingerprint of different spin-orbit terms for spin transport in HgTe quantum wells. <i>New Journal of Physics</i> , 2010, 12, 065012. | 1.2 | 149 |
| 35 | Very Large Magnetoresistance in Lateral Ferromagnetic (Ga,Mn)As Wires with Nanoconstrictions. <i>Physical Review Letters</i> , 2003, 91, 216602. | 2.9 | 146 |
| 36 | Electron-beam collimation with a quantum point contact. <i>Physical Review B</i> , 1990, 41, 1274-1277. | 1.1 | 143 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Very Large Tunneling Anisotropic Magnetoresistance of a(Ga,Mn)As/GaAs/(Ga,Mn)AsStack. Physical Review Letters, 2005, 94, 027203. | 2.9 | 143 |
| 38 | A frequency-controlled magnetic vortex memory. Applied Physics Letters, 2010, 96, . | 1.5 | 141 |
| 39 | Evidence for the ballistic intrinsic spin Hall effect in HgTe nanostructures. Nature Physics, 2010, 6, 448-454. | 6.5 | 140 |
| 40 | Character of states near the Fermi level in (Ga,Mn)As: Impurity to valence band crossover. Physical Review B, 2007, 76, . | 1.1 | 139 |
| 41 | Observation of the universal magnetoelectric effect in a 3D topological insulator. Nature Communications, 2017, 8, 15197. | 5.8 | 136 |
| 42 | Magnetic polarons in a single diluted magnetic semiconductor quantum dot. Physical Review B, 2000, 62, R7767-R7770. | 1.1 | 134 |
| 43 | Manifestation of the spin Hall effect through charge-transport in the mesoscopic regime. Physical Review B, 2004, 70, . | 1.1 | 133 |
| 44 | Optical dephasing in organic amorphous systems. A photon echo and holeâ€¢burning study of pentacene in polymethylmethacrylate. Journal of Chemical Physics, 1985, 83, 1-9. | 1.2 | 112 |
| 45 | Giant spin-orbit splitting in aHgTequantum well. Physical Review B, 2004, 70, . | 1.1 | 110 |
| 46 | Band structure engineering and reconstruction in electric circuit networks. Physical Review B, 2019, 99, . | 1.1 | 110 |
| 47 | Spin injection into semiconductors, physics and experiments. Semiconductor Science and Technology, 2002, 17, 310-321. | 1.0 | 109 |
| 48 | Bistability of Vortex Core Dynamics in a Single Perpendicularly Magnetized Nanodisk. Physical Review Letters, 2009, 102, 177602. | 2.9 | 108 |
| 49 | Josephson Radiation from Gapless Andreev Bound States in HgTe-Based Topological Junctions. Physical Review X, 2017, 7, . | 2.8 | 108 |
| 50 | Giant Magneto-Optical Faraday Effect in HgTe Thin Films in the Terahertz Spectral Range. Physical Review Letters, 2011, 106, 107404. | 2.9 | 102 |
| 51 | Unexpected edge conduction in mercury telluride quantum wells under broken time-reversal symmetry. Nature Communications, 2015, 6, 7252. | 5.8 | 101 |
| 52 | Scaling of the Coulomb Energy Due to Quantum Fluctuations in the Charge on a Quantum Dot. Physical Review Letters, 1995, 75, 4282-4285. | 2.9 | 100 |
| 53 | Highâ€¢Performance Single Crystal Organic Fieldâ€¢Effect Transistors Based on Two Dithiopheneâ€¢Tetrathiafulvalene (DTâ€¢TF) Polymorphs. Advanced Materials, 2010, 22, 4198-4203. | 11.1 | 100 |
| 54 | Nonsinusoidal Current-Phase Relationship in Josephson Junctions from the 3D Topological Insulator HgTe. Physical Review Letters, 2015, 114, 066801. | 2.9 | 99 |

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|----|---|-----|-----------|
| 55 | Vertex Corrections to the Anomalous Hall Effect in Spin-Polarized Two-Dimensional Electron Gases with a Rashba Spin-Orbit Interaction. <i>Physical Review Letters</i> , 2006, 97, 046604. | 2.9 | 97 |
| 56 | Absence of evidence for chiral Majorana modes in quantum anomalous Hall-superconductor devices. <i>Science</i> , 2020, 367, 64-67. | 6.0 | 93 |
| 57 | Large Magnetoresistance Effect Due to Spin Injection into a Nonmagnetic Semiconductor. <i>Physical Review Letters</i> , 2001, 87, 227203. | 2.9 | 89 |
| 58 | In situ electrical characterization of DH4T field-effect transistors. <i>Synthetic Metals</i> , 2004, 146, 317-320. | 2.1 | 87 |
| 59 | Coincidence of superparamagnetism and perfect quantization in the quantum anomalous Hall state. <i>Physical Review B</i> , 2015, 92, . | 1.1 | 87 |
| 60 | Experimental study of reduced shot noise in a diffusive mesoscopic conductor. <i>Physical Review B</i> , 1994, 49, 14066-14069. | 1.1 | 84 |
| 61 | Electron-electron-scattering-induced size effects in a two-dimensional wire. <i>Physical Review B</i> , 1994, 49, 5038-5041. | 1.1 | 82 |
| 62 | Heating of the magnetic ion system in (Zn, Mn)Se/(Zn, Be)Se semimagnetic quantum wells by means of photoexcitation. <i>Physical Review B</i> , 2001, 65, . | 1.1 | 82 |
| 63 | Electron spin manipulation using semimagnetic resonant tunneling diodes. <i>Applied Physics Letters</i> , 2001, 78, 1101-1103. | 1.5 | 82 |
| 64 | Control of Magnetic Anisotropy in GaMnAs Quantum Wells. <i>Physical Review Letters</i> , 2007, 99, 077201. | 1.9 | 82 |
| 65 | Determination of valence-band effective-mass anisotropy in GaAs quantum wells by optical spectroscopy. <i>Physical Review B</i> , 1988, 38, 4314-4317. | 1.1 | 81 |
| 66 | Molecular beam epitaxy of high structural quality Bi_2Se_3 on lattice matched InP(111) substrates. <i>Applied Physics Letters</i> , 2013, 102, . | 1.5 | 79 |
| 67 | Room-temperature spin-orbit torque in NiMnSb. <i>Nature Physics</i> , 2016, 12, 855-860. | 6.5 | 79 |
| 68 | Band structure and its temperature dependence for type-III $\text{HgTe}/\text{Hg}_{1-x}\text{Cd}_x\text{Te}$ superlattices and their semimetal constituent. <i>Physical Review B</i> , 2000, 62, 10353-10363. | 1.1 | 77 |
| 69 | Stochastic Coulomb blockade in a double quantum dot. <i>Applied Physics Letters</i> , 1994, 65, 1012-1014. | 1.5 | 76 |
| 70 | Thermopower of a Chaotic Quantum Dot. <i>Physical Review Letters</i> , 1999, 82, 2927-2930. | 2.9 | 76 |
| 71 | Spatially Resolved Study of Backscattering in the Quantum Spin Hall State. <i>Physical Review X</i> , 2013, 3, . | 2.8 | 76 |
| 72 | Surface State Charge Dynamics of a High-Mobility Three-Dimensional Topological Insulator. <i>Physical Review Letters</i> , 2011, 107, 136803. | 2.9 | 75 |

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|----|---|-----|-----------|
| 73 | Sequential and cotunneling behavior in the temperature-dependent thermopower of few-electron quantum dots. <i>Physical Review B</i> , 2007, 75, . | 1.1 | 73 |
| 74 | Comparative Study of the Microstructure of Bi ₂ Se ₃ Thin Films Grown on Si(111) and InP(111) Substrates. <i>Crystal Growth and Design</i> , 2012, 12, 1913-1918. | 1.4 | 73 |
| 75 | Josephson Supercurrent through the Topological Surface States of Strained Bulk HgTe. <i>Physical Review X</i> , 2013, 3, . | 2.8 | 73 |
| 76 | Lattice constant variation and complex formation in zincblende gallium manganese arsenide. <i>Applied Physics Letters</i> , 2001, 79, 1807-1809. | 1.5 | 71 |
| 77 | Controlled finite momentum pairing and spatially varying order parameter in proximitized HgTe quantum wells. <i>Nature Physics</i> , 2017, 13, 87-93. | 6.5 | 70 |
| 78 | Scaling of the Quantum Anomalous Hall Effect as an Indicator of Axion Electrodynamics. <i>Physical Review Letters</i> , 2017, 118, 246801. | 2.9 | 67 |
| 79 | Detection of electrical spin injection by light-emitting diodes in top- and side-emission configurations. <i>Applied Physics Letters</i> , 2003, 82, 2160-2162. | 1.5 | 65 |
| 80 | High-mobility tetrathiafulvalene organic field-effect transistors from solution processing. <i>Organic Electronics</i> , 2008, 9, 1101-1106. | 1.4 | 65 |
| 81 | Magneto-Optics of Massive Dirac Fermions in Bulk Bi_2Se_3 . <i>Physical Review Letters</i> , 2015, 114, 186401. | 2.9 | 65 |
| 82 | Organic thin-film transistors fabricated by microcontact printing. <i>Applied Physics Letters</i> , 2004, 84, 1582-1584. | 1.5 | 63 |
| 83 | Induced Superconductivity in the Three-Dimensional Topological Insulator HgTe. <i>Physical Review Letters</i> , 2012, 109, 186806. | 2.9 | 63 |
| 84 | Molecular-beam epitaxy of the half-Heusler alloy NiMnSb on (In,Ga)As/InP (001). <i>Applied Physics Letters</i> , 2003, 83, 521-523. | 1.5 | 62 |
| 85 | The four polymorphic modifications of the semiconductor dibenzo-tetrathiafulvalene. <i>CrystEngComm</i> , 2008, 10, 1899. | 1.3 | 62 |
| 86 | Spin filtering and magnetoresistance in ballistic tunnel junctions. <i>Physical Review B</i> , 2001, 64, . | 1.1 | 61 |
| 87 | Optimal control of vortex-core polarity by resonant microwave pulses. <i>Nature Physics</i> , 2011, 7, 26-31. | 6.5 | 61 |
| 88 | Spin Texture of Bi_2Se_3 Thin Films in the Quantum Tunneling Limit. <i>Physical Review Letters</i> , 2014, 112, 057601. | 2.9 | 61 |
| 89 | Anisotropic and strong negative magnetoresistance in the three-dimensional topological insulator Bi_2Te_3 . <i>Physical Review B</i> , 2016, 94, . | 1.1 | 59 |
| 90 | Picosecond Dynamics of the Photoinduced Spin Polarization in Epitaxial (Ga,Mn)As Films. <i>Physical Review Letters</i> , 2004, 92, 237203. | 2.9 | 58 |

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|-----|---|-----|-----------|
| 91 | Interacting topological edge channels. Nature Physics, 2020, 16, 83-88. | 6.5 | 58 |
| 92 | Josephson junction dynamics in the presence of $2\pi\hbar/e$ - and $4\pi\hbar/e$ -periodic supercurrents. Physical Review B, 2017, 95, . | 1.1 | 57 |
| 93 | Fine structure of zero-mode Landau levels in HgTe/Hg _{1-x} Cd _x Te quantum wells. Physical Review B, 2011, 83, . | 1.1 | 56 |
| 94 | Strain Engineering of the Band Gap of HgTe Quantum Wells Using Superlattice Virtual Substrates. Physical Review Letters, 2016, 117, 086403. | 2.9 | 55 |
| 95 | Exciton binding energy in (Al,Ga)As quantum wells: Effects of crystal orientation and envelope-function symmetry. Physical Review B, 1988, 38, 6147-6150. | 1.1 | 54 |
| 96 | Lithographic engineering of anisotropies in (Ga,Mn)As. Applied Physics Letters, 2007, 90, 102102. | 1.5 | 54 |
| 97 | Tunneling anisotropic magnetoresistance in organic spin valves. Physical Review B, 2011, 84, . | 1.1 | 54 |
| 98 | Periodic envelope of Coulomb-blockade oscillations in the quantum Hall regime. Physical Review B, 1992, 46, 12869-12872. | 1.1 | 53 |
| 99 | Polymer bonding process for nanolithography. Applied Physics Letters, 2001, 79, 2246-2248. | 1.5 | 53 |
| 100 | Remanent Zero Field Spin Splitting of Self-Assembled Quantum Dots in a Paramagnetic Host. Physical Review Letters, 2006, 97, 017202. | 2.9 | 53 |
| 101 | Suppressing Twin Formation in Bi ₂ Se ₃ Thin Films. Advanced Materials Interfaces, 2014, 1, 1400134. | 1.9 | 52 |
| 102 | Observation of Giant Magnetic Linear Dichroism in (Ga,Mn)As. Physical Review Letters, 2005, 94, 227203. | 2.9 | 51 |
| 103 | Precision measurement of the quantized anomalous Hall resistance at zero magnetic field. Applied Physics Letters, 2018, 112, . | 1.5 | 51 |
| 104 | Vertical organic spin valves in perpendicular magnetic fields. Physical Review B, 2013, 88, . | 1.1 | 49 |
| 105 | Tunable damping, saturation magnetization, and exchange stiffness of half-Heusler NiMnSb thin films. Physical Review B, 2015, 92, . | 1.1 | 49 |
| 106 | Valence band structure of HgTe/Hg _{1-x} Cd _x Te single quantum wells. Physical Review B, 2002, 66, . | 1.1 | 48 |
| 107 | Schottky contacts on a highly doped organic semiconductor. Physical Review B, 1995, 51, 17251-17254. | 1.1 | 47 |
| 108 | A non-volatile-memory device on the basis of engineered anisotropies in (Ga,Mn)As. Nature Physics, 2007, 3, 573-578. | 6.5 | 47 |

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|-----|---|------|-----------|
| 109 | Magnetization manipulation in (Ga,Mn)As by subpicosecond optical excitation. Applied Physics Letters, 2005, 86, 152506. | 1.5 | 46 |
| 110 | Gate control of the giant Rashba effect in HgTe quantum wells. Semiconductor Science and Technology, 2006, 21, 501-506. | 1.0 | 46 |
| 111 | Transport characterization of the magnetic anisotropy of (Ga,Mn)As. Applied Physics Letters, 2007, 90, 062109. | 1.5 | 44 |
| 112 | Temperature Peculiarities of Magnetic Anisotropy in (Ga,Mn)As: The Role of the Hole Concentration. Journal of Superconductivity and Novel Magnetism, 2003, 16, 7-10. | 0.5 | 42 |
| 113 | Magnetic Anisotropies and (Ga,Mn)As-based Spintronic Devices. Advanced Materials, 2007, 19, 323-340. | 11.1 | 41 |
| 114 | Stress dependence of ferromagnetic resonance and magnetic anisotropy in a thin NiMnSb film on InP(001). Applied Physics Letters, 2006, 89, 242505. | 1.5 | 40 |
| 115 | Backscattering of Dirac Fermions in HgTe Quantum Wells with a Finite Gap. Physical Review Letters, 2011, 106, 076802. | 2.9 | 40 |
| 116 | Observation of Volkov-Pankratov states in topological HgTe heterojunctions using high-frequency compressibility. Physical Review B, 2017, 96, . | 1.1 | 40 |
| 117 | High Mobility HgTe Microstructures for Quantum Spin Hall Studies. Nano Letters, 2018, 18, 4831-4836. | 4.5 | 40 |
| 118 | Approaching Quantization in Macroscopic Quantum Spin Hall Devices through Gate Training. Physical Review Letters, 2019, 123, 047701. | 2.9 | 40 |
| 119 | Very low interface recombination velocity in (Al,Ga)As heterostructures grown by organometallic vapor-phase epitaxy. Journal of Applied Physics, 1988, 64, 4253-4256. | 1.1 | 39 |
| 120 | Optimized sub-micron organic thin-film transistors: the influence of contacts and oxide thickness. Synthetic Metals, 2004, 146, 341-345. | 2.1 | 39 |
| 121 | Circular-to-Linear and Linear-to-Circular Conversion of Optical Polarization by Semiconductor Quantum Dots. Physical Review Letters, 2006, 96, 027402. | 2.9 | 39 |
| 122 | All-thermal transistor based on stochastic switching. Physical Review B, 2017, 95, . | 1.1 | 39 |
| 123 | Single-electron thermal devices coupled to a mesoscopic gate. New Journal of Physics, 2017, 19, 113040. | 1.2 | 39 |
| 124 | Optical dephasing by uncorrelated phonon scattering to librations. An optical and picosecond photon echo study of a photosite of pentacene in benzoic acid. Journal of Chemical Physics, 1984, 80, 3054-3063. | 1.2 | 38 |
| 125 | Observation of Knudsen and Gurzhi transport regimes in a two-dimensional wire. Solid-State Electronics, 1994, 37, 551-553. | 0.8 | 38 |
| 126 | Interplay of Rashba, Zeeman and Landau splitting in a magnetic two-dimensional electron gas. Europhysics Letters, 2004, 65, 393-399. | 0.7 | 38 |

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|-----|--|-----|-----------|
| 127 | Spin injection into a single self-assembled quantum dot. <i>Physical Review B</i> , 2004, 69, . | 1.1 | 38 |
| 128 | Suppression of Electron Spin Relaxation in Mn-Doped GaAs. <i>Physical Review Letters</i> , 2008, 101, 076602. | 2.9 | 38 |
| 129 | Spin-lattice relaxation of Mn ions in ZnMnSe/ZnBeSe quantum wells measured under pulsed photoexcitation. <i>Physical Review B</i> , 2006, 73, . | 1.1 | 37 |
| 130 | Detailed transport investigation of the magnetic anisotropy of (Ga,Mn)As. <i>New Journal of Physics</i> , 2007, 9, 354-354. | 1.2 | 37 |
| 131 | Diffusion thermopower of a serial double quantum dot. <i>New Journal of Physics</i> , 2013, 15, 123010. | 1.2 | 37 |
| 132 | How to measure the entropy of a mesoscopic system via thermoelectric transport. <i>Nature Communications</i> , 2019, 10, 5801. | 5.8 | 37 |
| 133 | Charging Energy of a Chaotic Quantum Dot. <i>Physical Review Letters</i> , 1998, 81, 5197-5200. | 2.9 | 36 |
| 134 | Direct energy transfer from photocarriers to Mn-ion system in II-VI diluted-magnetic-semiconductor quantum wells. <i>Physical Review B</i> , 2006, 73, . | 1.1 | 36 |
| 135 | Terahertz magneto-optical spectroscopy in HgTe thin films. <i>Semiconductor Science and Technology</i> , 2012, 27, 124004. | 1.0 | 35 |
| 136 | Dirac-Screening Stabilized Surface-State Transport in a Topological Insulator. <i>Physical Review X</i> , 2014, 4, . | 2.8 | 35 |
| 137 | Impurity states in the magnetic topological insulator V_2VO_5 . <i>Physical Review B</i> , 2016, 94, . | 1.1 | 35 |
| 138 | Applications of II-VI diluted magnetic semiconductors for magneto-electronics. <i>Solid State Communications</i> , 2001, 119, 237-244. | 0.9 | 34 |
| 139 | Quantum tunneling through planar p-n junctions in HgTe quantum wells. <i>New Journal of Physics</i> , 2010, 12, 083058. | 1.2 | 34 |
| 140 | Dilute magnetic semiconductors in spin-polarized electronics (invited). <i>Journal of Applied Physics</i> , 2001, 89, 7443-7447. | 1.1 | 33 |
| 141 | Magnetization-Switched Metal-Insulator Transition in a (Ga,Mn)As Tunnel Device. <i>Physical Review Letters</i> , 2006, 97, 186402. | 2.9 | 33 |
| 142 | Terahertz quantum Hall effect of Dirac fermions in a topological insulator. <i>Physical Review B</i> , 2013, 87, . | 1.1 | 33 |
| 143 | Thermoelectrics with Coulomb-coupled quantum dots. <i>Comptes Rendus Physique</i> , 2016, 17, 1109-1122. | 0.3 | 33 |
| 144 | Optical dephasing in a glass-like system: a photon echo study of pentacene in benzoic acid. <i>Chemical Physics Letters</i> , 1981, 84, 421-424. | 1.2 | 32 |

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|-----|--|-----|-----------|
| 145 | Electron-electron scattering probed by a collimated electron beam. <i>Semiconductor Science and Technology</i> , 1992, 7, B228-B230. | 1.0 | 32 |
| 146 | Spin injection across magnetic/nonmagnetic interfaces with finite magnetic layers. <i>Physical Review B</i> , 2005, 71, . | 1.1 | 32 |
| 147 | Room temperature electrically tunable terahertz Faraday effect. <i>Applied Physics Letters</i> , 2013, 102, . | 1.5 | 32 |
| 148 | Transport spectroscopy of induced superconductivity in the three-dimensional topological insulator HgTe. <i>Physical Review B</i> , 2017, 96, . | 1.1 | 32 |
| 149 | Sawtooth-like thermopower oscillations of a quantum dot in the Coulomb blockade regime. <i>Semiconductor Science and Technology</i> , 1994, 9, 903-906. | 1.0 | 31 |
| 150 | Effects of electron-electron scattering on electron-beam propagation in a two-dimensional electron gas. <i>Physical Review B</i> , 2000, 62, 2057-2064. | 1.1 | 31 |
| 151 | Epitaxy and magnetotransport properties of the diluted magnetic semiconductor p-Be(1-x)MnxTe. <i>Applied Physics Letters</i> , 2001, 79, 3125-3127. | 1.5 | 31 |
| 152 | Time-resolved and continuous-wave optical spin pumping of semiconductor quantum wells. <i>Semiconductor Science and Technology</i> , 2008, 23, 114001. | 1.0 | 30 |
| 153 | Circular photogalvanic effect in HgTe/CdHgTe quantum well structures. <i>Semiconductor Science and Technology</i> , 2010, 25, 095005. | 1.0 | 30 |
| 154 | Optical spin pumping of modulation-doped electrons probed by a two-color Kerr rotation technique. <i>Physical Review B</i> , 2006, 74, . | 1.1 | 29 |
| 155 | Development of a parallel local oxidation nanolithography instrument. <i>Review of Scientific Instruments</i> , 2006, 77, 086106. | 0.6 | 29 |
| 156 | Simple high resolution nanoimprint-lithography. <i>Microelectronic Engineering</i> , 2007, 84, 937-939. | 1.1 | 29 |
| 157 | Temperature-driven transition from a semiconductor to a topological insulator. <i>Physical Review B</i> , 2015, 91, . | 1.1 | 29 |
| 158 | Coexistence of Surface and Bulk Ferromagnetism Mimics Skyrmion Hall Effect in a Topological Insulator. <i>Physical Review X</i> , 2020, 10, . | 2.8 | 29 |
| 159 | Efficiency of ultrafast optically induced spin transfer in Heusler compounds. <i>Physical Review Research</i> , 2020, 2, . | 1.3 | 29 |
| 160 | Hidden In-Plane Anisotropy of Interfaces in Zn(Mn)Se/BeTe Quantum Wells with a Type-II Band Alignment. <i>Physical Review Letters</i> , 2002, 88, 257401. | 2.9 | 28 |
| 161 | Survival of the Quantum Anomalous Hall Effect in Orbital Magnetic Fields as a Consequence of the Parity Anomaly. <i>Physical Review Letters</i> , 2019, 123, 226602. | 2.9 | 28 |
| 162 | Fabrication of sub-10-nm Au/Pd structures using 30 keV electron beam lithography and lift-off. <i>Microelectronic Engineering</i> , 2003, 65, 327-333. | 1.1 | 27 |

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|-----|--|-----|-----------|
| 163 | Influence of growth conditions on the lattice constant and composition of (Ga,Mn)As. Applied Physics Letters, 2003, 82, 4678-4680. | 1.5 | 27 |
| 164 | Relativistic Gurzhi effect in channels of Dirac materials. Physical Review B, 2018, 97, . | 1.1 | 27 |
| 165 | Interstate dynamics in xanthione: A picosecond photon-echo and optical study. Chemical Physics Letters, 1983, 99, 382-387. | 1.2 | 26 |
| 166 | Random telegraph signals and 1/f noise in a silicon quantum dot. Journal of Applied Physics, 1999, 86, 1523-1526. | 1.1 | 26 |
| 167 | Quasiballistic transport in HgTe quantum-well nanostructures. Applied Physics Letters, 2003, 83, 1376-1378. | 1.5 | 26 |
| 168 | An extensive comparison of anisotropies in MBE grown (Ga,Mn)As material. New Journal of Physics, 2008, 10, 055007. | 1.2 | 26 |
| 169 | Reentrant topological phases in Mn-doped HgTe quantum wells. Physical Review B, 2012, 85, . | 1.1 | 26 |
| 170 | Thermal gating of charge currents with Coulomb coupled quantum dots. New Journal of Physics, 2015, 17, 113003. | 1.2 | 26 |
| 171 | Any axion insulator must be a bulk three-dimensional topological insulator. Physical Review B, 2021, 103, . | 1.1 | 25 |
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