

Chao Zhang

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.

253
papers

6,277
citations

32
h-index

75
g-index

300
ext. papers

7,248
ext. citations

3.4
avg, IF

5.64
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 253 | Optimizing topological switching in confined 2D-Xene nanoribbons via finite-size effects. <i>Applied Physics Reviews</i> , 2022 , 9, 011411 | 17.3 | 1 |
| 252 | Temperature characteristic of carrier scattering and dark resistivity of semi-insulating GaAs. <i>Journal of Applied Physics</i> , 2021 , 130, 195107 | 2.5 | 1 |
| 251 | Nonlinear effects in topological materials. <i>Frontiers of Optoelectronics</i> , 2021 , 14, 99-109 | 2.8 | 0 |
| 250 | . <i>IEEE Transactions on Electron Devices</i> , 2021 , 68, 2189-2195 | 2.9 | 2 |
| 249 | Observation of Negative Terahertz Photoconductivity in Large Area Type-II Dirac Semimetal PtTe ₂ . <i>Physical Review Letters</i> , 2021 , 126, 227402 | 7.4 | 8 |
| 248 | Temperature-Dependent Terahertz Emission from Co/Mn ₂ Au Spintronic Bilayers. <i>Physica Status Solidi - Rapid Research Letters</i> , 2021 , 15, 2100290 | 2.5 | 2 |
| 247 | Anisotropic thermionic response of Weyl semimetals with application in thermionic cooling. <i>Journal of Applied Physics</i> , 2020 , 128, 125101 | 2.5 | 1 |
| 246 | Broadband strong optical dichroism in topological Dirac semimetals with Fermi velocity anisotropy. <i>Chinese Physics B</i> , 2020 , 29, 077802 | 1.2 | 3 |
| 245 | Tunable strong photo-mixing in Weyl semimetals. <i>Physical Review B</i> , 2020 , 101, | 3.3 | 4 |
| 244 | Self-focusing in nodal semimetals. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020 , 37, 3581 | 1.7 | |
| 243 | Effect of quantum reflection over the barrier on thermionic refrigeration. <i>Journal of Applied Physics</i> , 2020 , 128, 044301 | 2.5 | 2 |
| 242 | Magnetic Modulation of Terahertz Waves via Spin-Polarized Electron Tunneling Based on Magnetic Tunnel Junctions. <i>Physical Review Applied</i> , 2020 , 14, | 4.3 | 3 |
| 241 | Ultrafast electron transport in metallic antiferromagnetic Mn ₂ Au thin films probed by terahertz spectroscopy. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 2 |
| 240 | Thermionic emission in nodal-ring semimetals. <i>Journal of Applied Physics</i> , 2020 , 128, 065108 | 2.5 | 3 |
| 239 | Giant intrinsic circular dichroism of enantiomorphic flat Chern bands and flatband devices. <i>Physical Review B</i> , 2020 , 102, | 3.3 | 5 |
| 238 | Decrease in Terahertz Conductivity of Graphene Under Electron Beam Irradiations. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2019 , 40, 297-305 | 2.2 | 0 |
| 237 | Superconducting pair-breaking under intense sub-gap terahertz radiation. <i>Applied Physics Letters</i> , 2019 , 114, 212601 | 3.4 | |

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|-----|--|-----|----|
| 236 | Ultrafast photocarrier dynamics in a 3D Dirac semimetal Cd ₃ As ₂ film studied with terahertz spectroscopy. <i>Applied Physics Letters</i> , 2019 , 114, 221102 | 3.4 | 32 |
| 235 | Magnetic-field-free terahertz emission from a magnetic tunneling junction. <i>Japanese Journal of Applied Physics</i> , 2019 , 58, 090913 | 1.4 | 7 |
| 234 | Nonlinear optical response of the \mathbb{Z}_3 model due to the nontrivial topology of the band dispersion. <i>Physical Review B</i> , 2019 , 100, | 3.3 | 10 |
| 233 | Thermal characteristic of dark resistivity of InGaAs photoconductive semiconductor switches. <i>Journal of Materials Science: Materials in Electronics</i> , 2019 , 30, 15339-15344 | 2.1 | 1 |
| 232 | Low frequency transverse electric surface plasmon polaritons in a dielectric-graphene-dielectric structure. <i>Applied Physics Express</i> , 2019 , 12, 082009 | 2.4 | 3 |
| 231 | Asymmetric tunneling properties in a 2D anisotropic massless linear energy system. <i>Applied Physics Express</i> , 2019 , 12, 125004 | 2.4 | 1 |
| 230 | Nonlinear terahertz emission in the three-dimensional topological insulator Bi ₂ Te ₃ by terahertz emission spectroscopy. <i>Applied Physics Letters</i> , 2019 , 115, 191102 | 3.4 | 19 |
| 229 | Thermionic enhanced heat transfer in electronic devices based on 3D Dirac materials. <i>Journal of Applied Physics</i> , 2019 , 126, 165105 | 2.5 | 3 |
| 228 | Strong tunable photomixing in semi-Dirac materials in the terahertz regime. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 200 | 1.7 | 3 |
| 227 | Modulation of terahertz radiation from graphene surface plasmon polaritons via surface acoustic wave. <i>Optics Express</i> , 2019 , 27, 11137-11151 | 3.3 | 3 |
| 226 | Direction controllable inverse transition radiation from the spatial dispersion in a graphene-dielectric stack. <i>Photonics Research</i> , 2019 , 7, 1154 | 6 | 9 |
| 225 | Dynamical polarization in a graphene-topological-insulator heterostructure. <i>Materials Research Express</i> , 2019 , 6, 045603 | 1.7 | |
| 224 | True spin and pseudo spin entanglement around Dirac Points in graphene with Rashba spin-orbit interaction. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2019 , 383, 295-300 | 2.3 | |
| 223 | Accurate magneto-optical determination of radius of topological nodal-ring semimetals. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 7 |
| 222 | Nonlinear optical response of a two-dimensional semi-Dirac system in the terahertz regime. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 135703 | 1.8 | 3 |
| 221 | Nonlinear optical conductivity of Weyl semimetals in the terahertz regime. <i>Physica B: Condensed Matter</i> , 2019 , 555, 81-84 | 2.8 | 3 |
| 220 | Broadband photocarrier dynamics and nonlinear absorption of PLD-grown WTe ₂ semimetal films. <i>Applied Physics Letters</i> , 2018 , 112, 171112 | 3.4 | 25 |
| 219 | Frequency and orientation dependent conductivity of a semi-Dirac system. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 205302 | 3 | 3 |

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|-----|--|------|-----|
| 218 | Effect of the hexagonal warping on the dynamical conductivity of surface states in a topological insulator. <i>European Physical Journal B</i> , 2018 , 91, 1 | 1.2 | 1 |
| 217 | Dependence of the optical conductivity on the uniaxial and biaxial strains in black phosphorene. <i>Physical Review B</i> , 2018 , 97, | 3.3 | 17 |
| 216 | Effects of surface nanostructuring and impurity doping on ultrafast carrier dynamics of silicon photovoltaic cells: a pump-probe study. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 024004 | 3 | 0 |
| 215 | Hot carrier relaxation in three dimensional gapped Dirac semi-metals. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 015101 | 3 | 6 |
| 214 | Realization of flat band with possible nontrivial topology in electronic Kagome lattice. <i>Science Advances</i> , 2018 , 4, eaau4511 | 14.3 | 62 |
| 213 | Transverse conductance in a three-dimensional Weyl semimetal and Weyl superconductor hybrid under a strong magnetic field. <i>Physical Review B</i> , 2018 , 98, | 3.3 | 3 |
| 212 | A robust and tuneable mid-infrared optical switch enabled by bulk Dirac fermions. <i>Nature Communications</i> , 2017 , 8, 14111 | 17.4 | 126 |
| 211 | Cherenkov terahertz radiation from graphene surface plasmon polaritons excited by an electron beam. <i>Applied Physics Letters</i> , 2017 , 110, 231102 | 3.4 | 30 |
| 210 | Broadband hot-carrier dynamics in three-dimensional Dirac semimetal Cd3As2. <i>Applied Physics Letters</i> , 2017 , 111, 091101 | 3.4 | 32 |
| 209 | Optical conductivity of a commensurate graphene-topological insulator heterostructure. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 385301 | 3 | 4 |
| 208 | Nonlinear optical conductivity resulting from the local energy spectrum at the M point in graphene. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 7 |
| 207 | Valleytronics in merging Dirac cones: All-electric-controlled valley filter, valve, and universal reversible logic gate. <i>Physical Review B</i> , 2017 , 96, | 3.3 | 62 |
| 206 | High efficiency and non-Richardson thermionics in three dimensional Dirac materials. <i>Applied Physics Letters</i> , 2017 , 111, 183902 | 3.4 | 13 |
| 205 | Enhanced and one-way absorptance of LiNiO2 thin films in one-dimensional photonic crystals. <i>Journal of Applied Physics</i> , 2017 , 122, 243104 | 2.5 | 1 |
| 204 | The tuned absorptance in multilayer graphene-dielectric structures by intraband transition. <i>Journal of Applied Physics</i> , 2017 , 122, 133109 | 2.5 | 6 |
| 203 | Plasmon modes of circular cylindrical double-layer graphene. <i>Optics Express</i> , 2016 , 24, 20461-71 | 3.3 | 12 |
| 202 | Efficient Excitation of Multiple Plasmonic Modes on Three-Dimensional Graphene: An Unexplored Dimension. <i>ACS Photonics</i> , 2016 , 3, 1986-1992 | 6.3 | 34 |
| 201 | Nonlocal transistor based on pure crossed Andreev reflection in a EuO-graphene/superconductor hybrid structure. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 25 |

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|-----|--|------|------|
| 200 | Charge Neutral Fermionic States and Current Oscillation in a GrapheneSuperconductor Hybrid Structure. <i>Journal of the Physical Society of Japan</i> , 2016 , 85, 104713 | 1.5 | 1 |
| 199 | Quantum ratchet in two-dimensional semiconductors with Rashba spin-orbit interaction. <i>Scientific Reports</i> , 2015 , 5, 7872 | 4.9 | 5 |
| 198 | TOPOLOGICAL MATTER. Discovery of a Weyl fermion semimetal and topological Fermi arcs. <i>Science</i> , 2015 , 349, 613-7 | 33.3 | 2165 |
| 197 | Nonlinear optical conductivity of bilayer graphene with Rashba spin-orbit interaction in the terahertz regime. <i>Journal of Applied Physics</i> , 2015 , 118, 043106 | 2.5 | 2 |
| 196 | Single molecular shuttle-junction: Shot noise and decoherence. <i>Frontiers of Physics</i> , 2015 , 10, 59-86 | 3.7 | 9 |
| 195 | Nonlinear optical response of graphene in terahertz and near-infrared frequency regime. <i>Frontiers of Optoelectronics</i> , 2015 , 8, 3-26 | 2.8 | 18 |
| 194 | Coherent and Tunable Terahertz Radiation from Graphene Surface Plasmon Polaritons Excited by Cyclotron Electron Beam. <i>Scientific Reports</i> , 2015 , 5, 16059 | 4.9 | 24 |
| 193 | Nonlinear terahertz response of HgTe/CdTe quantum wells. <i>Applied Physics Letters</i> , 2015 , 107, 081111 | 3.4 | 4 |
| 192 | Optical bistability induced by nonlinear surface plasmon polaritons in graphene in terahertz regime. <i>Applied Physics Letters</i> , 2015 , 107, 203113 | 3.4 | 23 |
| 191 | Transformation of surface plasmon polaritons to radiation in graphene in terahertz regime. <i>Applied Physics Letters</i> , 2015 , 106, 223107 | 3.4 | 26 |
| 190 | Nonlinear optical conductivity of two-dimensional semiconductors with Rashba spin-orbit coupling in terahertz regime. <i>European Physical Journal B</i> , 2014 , 87, 1 | 1.2 | 6 |
| 189 | Chiral-like tunneling of electrons in two-dimensional semiconductors with Rashba spin-orbit coupling. <i>Scientific Reports</i> , 2014 , 4, 3780 | 4.9 | 3 |
| 188 | Dynamic conductivity of the bulk states of n-type HgTe/CdTe quantum well topological insulator. <i>Applied Physics Letters</i> , 2014 , 105, 202110 | 3.4 | 4 |
| 187 | Topologically guaranteed enhancement of nonlinear optical conductivity of graphene in the presence of spin-orbit coupling. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 6 |
| 186 | Resonant electronic transport through a triple quantum-dot with E-type level structure under dual radiation fields. <i>Journal of Applied Physics</i> , 2014 , 116, 063702 | 2.5 | 1 |
| 185 | Coherent and tunable terahertz radiation from graphene surface plasmon polaritons excited by an electron beam. <i>Applied Physics Letters</i> , 2014 , 104, 201104 | 3.4 | 90 |
| 184 | Step-like multi-photon absorption in two-dimensional semiconductors with Rashba spin-orbit coupling in terahertz regime 2014 , | | 2 |
| 183 | Universal geometric classification of armchair honeycomb nanoribbons by their properties in a staggered sublattice potential. <i>Applied Physics Letters</i> , 2013 , 103, 171608 | 3.4 | |

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|-----|--|-----|-----|
| 182 | Klein tunneling and cone transport in AA-stacked bilayer graphene. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 24 |
| 181 | Energy-loss rate of a fast particle in two-dimensional semiconductors with Rashba spin-orbit coupling. <i>Applied Physics Letters</i> , 2013 , 102, 052113 | 3.4 | 1 |
| 180 | Difference between far-infrared photoconductivity spectroscopy and absorption spectroscopy: theoretical evidence of the electron reservoir mechanism. <i>Physical Review Letters</i> , 2013 , 111, 086801 | 7.4 | 2 |
| 179 | Electromagnetically induced transparency of charge pumping in a triple-quantum-dots with Γ type level structure. <i>Applied Physics Letters</i> , 2013 , 102, 163116 | 3.4 | 9 |
| 178 | Energy loss rate of a charged particle in HgTe/(HgTe, CdTe) quantum wells. <i>Applied Physics Letters</i> , 2013 , 103, 192107 | 3.4 | 3 |
| 177 | Theory of the integer quantum Hall effect in graphene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 616-619 | 2.3 | 8 |
| 176 | Crystal structure, electronic structure and thermoelectric properties of n-type BiSbTe ₂ . <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 125301 | 3 | 8 |
| 175 | Enhanced optical conductance in graphene superlattice due to anisotropic band dispersion. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 395303 | 3 | 13 |
| 174 | Electrical and thermoelectric properties of single-wall carbon nanotube doped Bi ₂ Te ₃ . <i>Applied Physics Letters</i> , 2012 , 101, 031909 | 3.4 | 41 |
| 173 | Photomixing in topological insulator HgTe/CdTe quantum wells in terahertz regime. <i>Applied Physics Letters</i> , 2012 , 101, 211109 | 3.4 | 11 |
| 172 | Retro reflection of electrons at the interface of bilayer graphene and superconductor. <i>Scientific Reports</i> , 2012 , 2, 1013 | 4.9 | 10 |
| 171 | Room temperature giant and linear magnetoresistance in topological insulator Bi ₂ Te ₃ nanosheets. <i>Physical Review Letters</i> , 2012 , 108, 266806 | 7.4 | 201 |
| 170 | The effect of spin-orbit interaction on optical conductivity in graphene. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 035303 | 1.8 | 9 |
| 169 | Terahertz Photon Mixing Effect in Gapped Graphene. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2012 , 33, 816-824 | 2.2 | 5 |
| 168 | Room-temperature strong terahertz photon mixing in graphene. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 274 | 1.7 | 36 |
| 167 | Specular Andreev reflection in the interface of a two-dimensional semiconductor with Rashba spin-orbit coupling and a d-wave superconductor. <i>Physical Review Letters</i> , 2012 , 108, 077002 | 7.4 | 23 |
| 166 | OPTICAL CONDUCTANCE OF A TWO-DIMENSIONAL SEMICONDUCTOR IN THE PRESENCE OF RASHBA SPIN-ORBIT COUPLING AND A PERIODIC POTENTIAL. <i>Modern Physics Letters B</i> , 2012 , 26, 1250174 | 1.6 | 16 |
| 165 | Double trigonal warping and the anomalous quantum Hall step in bilayer graphene with Rashba spin-orbit coupling. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 485303 | 1.8 | 1 |

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|-----|--|------|-----|
| 164 | Strong Nonlinear Optical Response of Bilayer Graphene in the Terahertz Regime. <i>Key Engineering Materials</i> , 2012 , 500, 62-65 | 0.4 | |
| 163 | Energy-loss rate of a fast particle in graphene. <i>Applied Physics Letters</i> , 2011 , 99, 053111 | 3.4 | 1 |
| 162 | Two-color terahertz response in bilayer graphene nanoribbons with spin-orbit coupling. <i>Applied Physics Letters</i> , 2011 , 98, 061107 | 3.4 | 8 |
| 161 | Transverse current response in armchair graphene ribbons. <i>Journal of Applied Physics</i> , 2011 , 110, 034313 | 3.5 | 2 |
| 160 | Nonlinear transverse current response in zigzag graphene nanoribbons. <i>Journal of Applied Physics</i> , 2011 , 110, 073713 | 2.5 | 1 |
| 159 | Subgap optical conductivity in semihydrogenated graphene. <i>Applied Physics Letters</i> , 2011 , 98, 042107 | 3.4 | 19 |
| 158 | Electron tunneling in single layer graphene with an energy gap. <i>Chinese Physics B</i> , 2011 , 20, 027201 | 1.2 | 16 |
| 157 | Gapless insulator and a band gap scaling law in semihydrogenated graphene. <i>Applied Physics Letters</i> , 2010 , 97, 043104 | 3.4 | 6 |
| 156 | Dynamic conductivity of graphene with electron-LO-phonon interaction. <i>Physical Review B</i> , 2010 , 81, | 3.3 | 43 |
| 155 | The resonant tunneling through a graphene multiquantum well system. <i>Journal of Applied Physics</i> , 2010 , 107, 123718 | 2.5 | 16 |
| 154 | Zero-gap materials for future spintronics, electronics and optics. <i>NPG Asia Materials</i> , 2010 , 2, 31-38 | 10.3 | 145 |
| 153 | Nonlinear optical conductance in a graphene pn junction in the terahertz regime. <i>Applied Physics Letters</i> , 2010 , 97, 011907 | 3.4 | 31 |
| 152 | Vertical absorption edge and temperature dependent resistivity in semihydrogenated graphene. <i>Applied Physics Letters</i> , 2010 , 96, 023107 | 3.4 | 9 |
| 151 | Nonlinear optical spectrum of bilayer graphene in the terahertz regime. <i>Applied Physics Letters</i> , 2010 , 97, 243110 | 3.4 | 59 |
| 150 | Electronic structure and thermoelectric properties of Bi ₂ Te ₃ crystals and graphene-doped Bi ₂ Te ₃ . <i>Thin Solid Films</i> , 2010 , 518, e57-e60 | 2.2 | 33 |
| 149 | Enhanced optical conductivity of bilayer graphene nanoribbons in the terahertz regime. <i>Physical Review Letters</i> , 2009 , 103, 207401 | 7.4 | 113 |
| 148 | Noise temperature spectrum of hot electrons in semiconductor superlattices. <i>Journal of Applied Physics</i> , 2009 , 105, 013717 | 2.5 | |
| 147 | Stretching induced Hall current and conductance anisotropy in graphene. <i>Applied Physics Letters</i> , 2009 , 95, 163104 | 3.4 | 5 |

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| 146 | Efficiency in nanometre gap vacuum thermionic refrigerators. <i>Journal Physics D: Applied Physics</i> , 2009 , 42, 035417 | 3 | 24 |
| 145 | The effect of next nearest neighbor coupling on the optical spectra in bilayer graphene. <i>Nanotechnology</i> , 2009 , 20, 405203 | 3.4 | 20 |
| 144 | Colossal Electroresistance and Giant Magnetoresistance in Doped PbPdO ₂ Thin Films. <i>Advanced Materials</i> , 2009 , 21, 2196-2199 | 24 | 91 |
| 143 | Electrochemical performance of Fe ₂ O ₃ nanorods as anode material for lithium-ion cells. <i>Electrochimica Acta</i> , 2009 , 54, 1733-1736 | 6.7 | 208 |
| 142 | Nanopumping molecules via a carbon nanotube. <i>Nano Research</i> , 2009 , 2, 938-944 | 10 | 22 |
| 141 | Terahertz band-gap in InAs/GaSb type-II superlattices. <i>Microelectronics Journal</i> , 2009 , 40, 812-814 | 1.8 | 7 |
| 140 | Thermodynamic properties of graphene nanoribbons under zero and quantizing magnetic fields. <i>Microelectronics Journal</i> , 2009 , 40, 716-718 | 1.8 | 9 |
| 139 | The spin-orbit interaction enhanced terahertz absorption in graphene around the K point. <i>Microelectronics Journal</i> , 2009 , 40, 857-859 | 1.8 | 7 |
| 138 | Mid-infrared absorption by short-period InAs/GaSb type II superlattices. <i>Microelectronics Journal</i> , 2009 , 40, 815-817 | 1.8 | |
| 137 | Exchange-induced band hybridization in InAs/GaSb based type II and broken-gap quantum well systems. <i>Microelectronics Journal</i> , 2009 , 40, 809-811 | 1.8 | |
| 136 | Strong nonlinear optical response of graphene in the terahertz regime. <i>Applied Physics Letters</i> , 2009 , 95, 072101 | 3.4 | 183 |
| 135 | Orientation dependence of the optical spectra in graphene at high frequencies. <i>Physical Review B</i> , 2008 , 77, | 3.3 | 67 |
| 134 | Strong terahertz conductance of graphene nanoribbons under a magnetic field. <i>Applied Physics Letters</i> , 2008 , 93, 041106 | 3.4 | 68 |
| 133 | Strong photon-mixing of terahertz waves in semiconductor quantum wells induced by Rashba spin-orbit coupling. <i>Nanotechnology</i> , 2008 , 19, 465401 | 3.4 | 5 |
| 132 | Temperature dependence of the intrinsic spin Hall effect in Rashba spin-orbit coupled systems. <i>Europhysics Letters</i> , 2008 , 82, 67003 | 1.6 | 6 |
| 131 | A unified geometric rule for designing nanomagnetism in graphene. <i>Nano Research</i> , 2008 , 1, 497-501 | 10 | 70 |
| 130 | Two-colour infrared absorption in InAs/GaSb-based type II and broken-gap quantum well systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1069-1071 | 3 | 2 |
| 129 | Broadband optical absorption in a two-dimensional electron gas in the presence of spin-orbit interaction and high magnetic fields. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1896-1898 | 3 | |

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| 128 | Exchange-enhanced spin splitting in a two-dimensional electron gas in the presence of spin-orbit interaction and magnetic fields. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1979-1981 | 3 | 1 |
| 127 | Thermodynamic properties of two-dimensional semiconductors with spin-orbit coupling. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1454-1456 | 3 | 3 |
| 126 | Electronic subband structure of InAs/GaSb-based type II and broken-gap quantum well systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1536-1538 | 3 | |
| 125 | Photo absorption in spintronic multilayer systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 2138-2140 | 3 | |
| 124 | Thermionic refrigeration in low-dimensional structures. <i>Microelectronics Journal</i> , 2008 , 39, 597-600 | 1.8 | 6 |
| 123 | Electronic and thermal transport in hot carrier solar cells with low-dimensional contacts. <i>Microelectronics Journal</i> , 2008 , 39, 656-659 | 1.8 | 29 |
| 122 | Orbital magnetization of graphene and graphene nanoribbons. <i>Journal of Applied Physics</i> , 2008 , 103, 103711 | 2.5 | 33 |
| 121 | Gate-tunable Ruderman-Kittel-Kasuya-Yosida interaction mediated by low-dimensional electrons with Rashba spin-orbit coupling. <i>Journal of Applied Physics</i> , 2007 , 102, 103910 | 2.5 | 20 |
| 120 | Photocurrent induced by intersubband transition in a type II and broken-gap quantum well system. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 544-546 | | |
| 119 | Light scattering in an electron-hole double quantum well in the presence of spin-orbit interaction. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 445-447 | | |
| 118 | Negative long wavelength dielectric constant in semiconductor QWs. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 451-453 | | |
| 117 | Spin Josephson effect in spintronic nanostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 478-480 | | |
| 116 | Nonlinear optical properties of semiconductor quantum wells under intense terahertz radiation. <i>Applied Physics Letters</i> , 2007 , 91, 041909 | 3.4 | 9 |
| 115 | Photon absorption and collective excitations in spintronic superlattices. <i>Journal of Materials Science: Materials in Electronics</i> , 2007 , 18, 87-91 | 2.1 | 1 |
| 114 | Impurity mediated absorption continuum in single-walled carbon nanotubes. <i>Applied Physics Letters</i> , 2007 , 90, 023106 | 3.4 | 7 |
| 113 | Enhancement of polarization in a spin-orbit coupling quantum wire with a constriction. <i>Physical Review B</i> , 2007 , 76, | 3.3 | 29 |
| 112 | Spin-orbit interaction enhanced polaron effect in two-dimensional semiconductors. <i>Applied Physics Letters</i> , 2007 , 90, 112103 | 3.4 | 21 |
| 111 | Phonon-limited mobility in two-dimensional semiconductors with spin-orbit coupling. <i>Applied Physics Letters</i> , 2007 , 91, 102115 | 3.4 | 12 |

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| 110 | Thermionic refrigerators with non-Richardson current. <i>Journal Physics D: Applied Physics</i> , 2007 , 40, 1167-1174 | 22 |
| 109 | Magnetic-field-induced charge current in quantum wells with spin-orbit coupling. <i>Nanotechnology</i> , 2007 , 18, 475403 | 3-4 2 |
| 108 | Low thermal conductivity short-period superlattice thermionic devices. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, 4153-4158 | 3 11 |
| 107 | Shot noise and conductance in metallic carbon nanotubes in the presence of correlated defects. <i>Physical Review B</i> , 2006 , 73, | 3-3 8 |
| 106 | Thermionic cooling in cylindrical semiconductor nanostructures. <i>Applied Physics Letters</i> , 2006 , 89, 153125-4 | 4 |
| 105 | Optical spectrum of a two-dimensional hole gas in the presence of spin-orbit interaction. <i>Physical Review B</i> , 2006 , 74, | 3-3 14 |
| 104 | Transport of spin-polarized electrons in a magnetic superlattice. <i>Physical Review B</i> , 2006 , 73, | 3-3 54 |
| 103 | Pressure-induced transition in magnetoresistance of single-walled carbon nanotubes. <i>Physical Review Letters</i> , 2006 , 97, 026402 | 7-4 32 |
| 102 | Two color plasmon excitation in an electron-hole bilayer structure controlled by the spin-orbit interaction. <i>Applied Physics Letters</i> , 2006 , 88, 223102 | 3-4 11 |
| 101 | Optical absorption coefficients in two-dimensional semiconductors under strong magnetic field. <i>Journal of Applied Physics</i> , 2006 , 99, 123706 | 2-5 3 |
| 100 | Fiber-optic temperature sensor based on interference of selective higher-order modes. <i>Applied Physics Letters</i> , 2006 , 89, 091119 | 3-4 163 |
| 99 | Exchange-enhanced spin-splitting in a two-dimensional electron gas in the presence of the Rashba spin-orbit interaction. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 32, 363-366 | 3 1 |
| 98 | Fast-electron optical spectrum of a two-dimensional electron gas in the presence of the Rashba effect. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 34, 272-275 | 3 2 |
| 97 | Frequency-dependent Hall effect in spintronic systems under zero magnetic field. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 34, 321-324 | 3 1 |
| 96 | The effect of the electron energy spectrum on electronic efficiency and power in thermionic and thermoelectric devices 2005 , | 2 |
| 95 | Nonlinear response formula for an interacting two-dimensional electron gas under a magnetic field and microwave radiation. <i>Physical Review B</i> , 2005 , 71, | 3-3 8 |
| 94 | Electronic efficiency in nanostructured thermionic and thermoelectric devices. <i>Physical Review B</i> , 2005 , 72, | 3-3 76 |
| 93 | Principles of charge and heat transport in thermionic devices 2005 , 5649, 332 | 2 |

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|----|--|-----|----|
| 92 | The effect of barrier shape on thermionic refrigerator performance 2005 , | | 1 |
| 91 | A new magnetoplasmon sound wave in a two-dimensional electron gas under electromagnetic radiation. <i>Europhysics Letters</i> , 2005 , 69, 623-628 | 1.6 | |
| 90 | Dynamic Hall resistivity of electronic systems in the presence of Rashba coupling at zero field. <i>Physical Review B</i> , 2005 , 71, | 3.3 | 31 |
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