

Giovanni Vignale

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284
papers

10,124
citations

52
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91
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302
ext. papers

11,388
ext. citations

4.5
avg. IF

6.56
L-index

| # | Paper | IF | Citations |
|-----|--|------|-----------|
| 284 | Quantum Theory of the Electron Liquid 2005 , | | 1109 |
| 283 | Highly confined low-loss plasmons in graphene-boron nitride heterostructures. <i>Nature Materials</i> , 2015 , 14, 421-5 | 27 | 681 |
| 282 | Density-functional theory in strong magnetic fields. <i>Physical Review Letters</i> , 1987 , 59, 2360-2363 | 7.4 | 399 |
| 281 | Current-Dependent Exchange-Correlation Potential for Dynamical Linear Response Theory. <i>Physical Review Letters</i> , 1996 , 77, 2037-2040 | 7.4 | 391 |
| 280 | Current- and spin-density-functional theory for inhomogeneous electronic systems in strong magnetic fields. <i>Physical Review B</i> , 1988 , 37, 10685-10696 | 3.3 | 351 |
| 279 | Time-Dependent Density Functional Theory Beyond the Adiabatic Local Density Approximation. <i>Physical Review Letters</i> , 1997 , 79, 4878-4881 | 7.4 | 199 |
| 278 | Microscopic theory of the inverse Edelstein effect. <i>Physical Review Letters</i> , 2014 , 112, 096601 | 7.4 | 177 |
| 277 | Dynamical corrections to the DFT-LDA electron conductance in nanoscale systems. <i>Physical Review Letters</i> , 2005 , 94, 186810 | 7.4 | 155 |
| 276 | Engineering artificial graphene in a two-dimensional electron gas. <i>Physical Review B</i> , 2009 , 79, | 3.3 | 154 |
| 275 | Two-dimensional Mott-Hubbard electrons in an artificial honeycomb lattice. <i>Science</i> , 2011 , 332, 1176-9 | 33.3 | 153 |
| 274 | Quantum theory of orbital magnetization and its generalization to interacting systems. <i>Physical Review Letters</i> , 2007 , 99, 197202 | 7.4 | 134 |
| 273 | Drude weight, plasmon dispersion, and ac conductivity in doped graphene sheets. <i>Physical Review B</i> , 2011 , 84, | 3.3 | 130 |
| 272 | Unipolar spin diodes and transistors. <i>Applied Physics Letters</i> , 2001 , 78, 1273-1275 | 3.4 | 125 |
| 271 | Theory of spin Coulomb drag in spin-polarized transport. <i>Physical Review B</i> , 2000 , 62, 4853-4857 | 3.3 | 120 |
| 270 | Drag in paired electron-hole layers. <i>Physical Review Letters</i> , 1996 , 76, 2786-2789 | 7.4 | 113 |
| 269 | Current-density-functional theory of quantum dots in a magnetic field. <i>Physical Review B</i> , 1994 , 50, 14723-14725 | 3.3 | 112 |
| 268 | Center of mass and relative motion in time dependent density functional theory. <i>Physical Review Letters</i> , 1995 , 74, 3233-3236 | 7.4 | 110 |

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| 267 | Nonuniqueness of the potentials of spin-density-functional theory. <i>Physical Review Letters</i> , 2001 , 86, 5546-9 | 7.4 | 95 |
| 266 | Ten Years of Spin Hall Effect. <i>Journal of Superconductivity and Novel Magnetism</i> , 2010 , 23, 3-10 | 1.5 | 90 |
| 265 | Mapping from current densities to vector potentials in time-dependent current density functional theory. <i>Physical Review B</i> , 2004 , 70, | 3.3 | 89 |
| 264 | Linear response of doped graphene sheets to vector potentials. <i>Physical Review B</i> , 2009 , 80, | 3.3 | 88 |
| 263 | Magnetic Fields and Density Functional Theory. <i>Advances in Quantum Chemistry</i> , 1990 , 235-253 | 1.4 | 85 |
| 262 | Bulk and shear viscosities of the two-dimensional electron liquid in a doped graphene sheet. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 79 |
| 261 | Spin currents and spin dynamics in time-dependent density-functional theory. <i>Physical Review Letters</i> , 2001 , 87, 206403 | 7.4 | 75 |
| 260 | Density-functional theory for strongly interacting electrons. <i>Physical Review Letters</i> , 2009 , 103, 166402 | 7.4 | 73 |
| 259 | Elasticity of an electron liquid. <i>Physical Review B</i> , 1999 , 60, 7966-7980 | 3.3 | 71 |
| 258 | Origin of inverse Rashba-Edelstein effect detected at the Cu/Bi interface using lateral spin valves. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 69 |
| 257 | Plasmon losses due to electron-phonon scattering: The case of graphene encapsulated in hexagonal boron nitride. <i>Physical Review B</i> , 2014 , 90, | 3.3 | 68 |
| 256 | Diamagnetic susceptibility of a dense electron gas. <i>Physical Review B</i> , 1988 , 37, 2502-2507 | 3.3 | 68 |
| 255 | Effective two-body interaction in Coulomb Fermi liquids. <i>Physical Review B</i> , 1985 , 32, 2156-2166 | 3.3 | 67 |
| 254 | Real-time resolution of the causality paradox of time-dependent density-functional theory. <i>Physical Review A</i> , 2008 , 77, | 2.6 | 66 |
| 253 | Time-dependent current-density-functional theory for the linear response of weakly disordered systems. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 64 |
| 252 | Theory of the linewidth of intersubband plasmons in quantum wells. <i>Physical Review Letters</i> , 2001 , 87, 037402 | 7.4 | 63 |
| 251 | Electronic Zero-Point Oscillations in the Strong-Interaction Limit of Density Functional Theory. <i>Journal of Chemical Theory and Computation</i> , 2009 , 5, 743-53 | 6.4 | 61 |
| 250 | Incompleteness of the Landauer formula for electronic transport. <i>Physical Review B</i> , 2009 , 79, | 3.3 | 61 |

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| 249 | Corbino disk viscometer for 2D quantum electron liquids. <i>Physical Review Letters</i> , 2014 , 113, 235901 | 7.4 | 59 |
| 248 | Dynamical exchange-correlation potentials for an electron liquid. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 59 |
| 247 | Spin diffusion in doped semiconductors: The role of Coulomb interactions. <i>Europhysics Letters</i> , 2001 , 55, 566-572 | 1.6 | 59 |
| 246 | Bilinear magnetoelectric resistance as a probe of three-dimensional spin texture in topological surface states. <i>Nature Physics</i> , 2018 , 14, 495-499 | 16.2 | 58 |
| 245 | Electric control of spin currents and spin-wave logic. <i>Physical Review Letters</i> , 2011 , 106, 247203 | 7.4 | 58 |
| 244 | Optics of semiconductors from meta-generalized-gradient-approximation-based time-dependent density-functional theory. <i>Physical Review Letters</i> , 2011 , 107, 216402 | 7.4 | 58 |
| 243 | Coulomb interaction effects in spin-polarized transport. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 58 |
| 242 | Exchange-correlation energy of a three-dimensional electron gas in a magnetic field. <i>Physical Review B</i> , 1993 , 48, 8547-8559 | 3.3 | 58 |
| 241 | Intrinsic lifetime of Dirac plasmons in graphene. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 57 |
| 240 | Spin-orbit interaction in a two-dimensional electron gas: A SU(2) formulation. <i>Annalen Der Physik</i> , 2012 , 524, n/a-n/a | 2.6 | 57 |
| 239 | Anisotropic plasmons in a two-dimensional electron gas with spin-orbit interaction. <i>Physical Review B</i> , 2009 , 79, | 3.3 | 56 |
| 238 | Engineering superfluidity in electron-hole double layers. <i>Physical Review B</i> , 1998 , 57, R6846-R6849 | 3.3 | 56 |
| 237 | Quasiparticle self-energy and many-body effective mass enhancement in a two-dimensional electron liquid. <i>Physical Review B</i> , 2005 , 71, | 3.3 | 55 |
| 236 | Nonuniqueness and derivative discontinuities in density-functional theories for current-carrying and superconducting systems. <i>Physical Review B</i> , 2002 , 65, | 3.3 | 55 |
| 235 | Transverse spin diffusion in ferromagnets. <i>Physical Review B</i> , 2009 , 79, | 3.3 | 52 |
| 234 | Lorentz shear modulus of a two-dimensional electron gas at high magnetic field. <i>Physical Review B</i> , 2007 , 76, | 3.3 | 52 |
| 233 | Spin drag and spin-charge separation in cold fermi gases. <i>Physical Review Letters</i> , 2007 , 98, 266403 | 7.4 | 52 |
| 232 | Nonlinear quasiparticle tunneling between fractional quantum hall edges. <i>Physical Review Letters</i> , 2003 , 90, 046805 | 7.4 | 50 |

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| 231 | Spin dynamics from time-dependent spin-density-functional theory. <i>Physical Review Letters</i> , 2002 , 88, 056404 | 7.4 | 50 |
| 230 | Violation of the Wiedemann-Franz Law in Hydrodynamic Electron Liquids. <i>Physical Review Letters</i> , 2015 , 115, 056603 | 7.4 | 48 |
| 229 | Lorentz shear modulus of fractional quantum Hall states. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 275603 | 1.8 | 48 |
| 228 | Including nonlocality in the exchange-correlation kernel from time-dependent current density functional theory: Application to the stopping power of electron liquids. <i>Physical Review B</i> , 2007 , 76, | 3.3 | 46 |
| 227 | Spin Coulomb drag in the two-dimensional electron liquid. <i>Physical Review B</i> , 2003 , 68, | 3.3 | 45 |
| 226 | Anisotropic magnetoresistance driven by surface spin-orbit scattering. <i>Physical Review B</i> , 2015 , 92, | 3.3 | 43 |
| 225 | Possibility of superconductivity in the electron-hole liquid. <i>Physical Review B</i> , 1985 , 31, 2729-2749 | 3.3 | 43 |
| 224 | Impact of disorder on Dirac plasmon losses. <i>Physical Review B</i> , 2013 , 88, | 3.3 | 42 |
| 223 | Motion of a single hole in an itinerant-electron antiferromagnet. <i>Physical Review B</i> , 1990 , 42, 786-797 | 3.3 | 42 |
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| 221 | Relaxation in time-dependent current-density-functional theory. <i>Physical Review Letters</i> , 2006 , 96, 016405 | 3.4 | 39 |
| 220 | Many-body orbital paramagnetism in doped graphene sheets. <i>Physical Review Letters</i> , 2010 , 104, 225503 | 3.4 | 38 |
| 219 | Sum rule for the linear density response of a driven electronic system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995 , 209, 206-210 | 2.3 | 38 |
| 218 | Ambipolar spin diffusion and D'yakonov-Perel' spin relaxation in GaAs quantum wells. <i>Physical Review B</i> , 2009 , 79, | 3.3 | 37 |
| 217 | Quantum stress focusing in descriptive chemistry. <i>Physical Review Letters</i> , 2008 , 100, 206405 | 7.4 | 37 |
| 216 | Coexistence of large conventional and planar spin Hall effect with long spin diffusion length in a low-symmetry semimetal at room temperature. <i>Nature Materials</i> , 2020 , 19, 292-298 | 2.7 | 35 |
| 215 | Spin drag in an ultracold fermi gas on the verge of ferromagnetic instability. <i>Physical Review Letters</i> , 2010 , 104, 220403 | 7.4 | 33 |
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| 212 | Theory of unidirectional spin Hall magnetoresistance in heavy-metal/ferromagnetic-metal bilayers. <i>Physical Review B</i> , 2016 , 94, | 3-3 | 32 |
| 211 | How Many-Body Effects Modify the van der Waals Interaction between Graphene Sheets. <i>Physical Review X</i> , 2014 , 4, | 9-1 | 32 |
| 210 | Probing the topological exciton condensate via Coulomb drag. <i>Physical Review Letters</i> , 2012 , 108, 186402. | 7-4 | 32 |
| 209 | Exact exchange-correlation potential for a time-dependent two-electron system. <i>Physical Review B</i> , 1999 , 59, 7876-7887 | 3-3 | 32 |
| 208 | Theory of coupled spin-charge transport due to spin-orbit interaction in inhomogeneous two-dimensional electron liquids. <i>Physical Review B</i> , 2014 , 90, | 3-3 | 31 |
| 207 | Beating of Friedel oscillations induced by spin-orbit interaction. <i>Physical Review B</i> , 2010 , 81, | 3-3 | 31 |
| 206 | Phase diagram of the spin Hall effect. <i>Physical Review Letters</i> , 2008 , 100, 026602 | 7-4 | 31 |
| 205 | Edge structure of fractional quantum Hall systems from density-functional theory. <i>Physical Review B</i> , 1995 , 52, 16357-16360 | 3-3 | 31 |
| 204 | Luttinger-field approach to thermoelectric transport in nanoscale conductors. <i>Physical Review B</i> , 2014 , 90, | 3-3 | 30 |
| 203 | Plasmon mass and Drude weight in strongly spin-orbit-coupled two-dimensional electron gases. <i>Physical Review B</i> , 2011 , 83, | 3-3 | 30 |
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| 198 | Lifetime of a quasiparticle in an electron liquid. <i>Physical Review B</i> , 2005 , 71, | 3-3 | 29 |
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| 194 | Spin Hall and Edelstein effects in metallic films: From two to three dimensions. <i>Physical Review B</i> , 2014 , 89, | 3-3 | 27 |
| 193 | Side jumps in the spin Hall effect: Construction of the Boltzmann collision integral. <i>Physical Review B</i> , 2010 , 81, | 3-3 | 27 |
| 192 | Persistent current in a rotating mesoscopic ring. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 1995 , 197, 444-448 | 2-3 | 27 |
| 191 | Currents in the compressible and incompressible regions of the two-dimensional electron gas. <i>Physical Review B</i> , 1994 , 50, 11714-11722 | 3-3 | 27 |
| 190 | Kondo effect and non-Fermi-liquid behavior in Dirac and Weyl semimetals. <i>Physical Review B</i> , 2015 , 92, | 3-3 | 26 |
| 189 | Dynamics of dissipative quantum Hall edges. <i>Physical Review B</i> , 2003 , 67, | 3-3 | 26 |
| 188 | Observation of Out-of-Plane Spin Texture in a SrTiO ₃ (111) Two-Dimensional Electron Gas. <i>Physical Review Letters</i> , 2018 , 120, 266802 | 7-4 | 26 |
| 187 | Electron-electron interactions in artificial graphene. <i>Physical Review Letters</i> , 2012 , 108, 246803 | 7-4 | 25 |
| 186 | Solving the ultranonlocality problem in time-dependent spin-density-functional theory. <i>Physical Review Letters</i> , 2003 , 90, 066402 | 7-4 | 25 |
| 185 | Transverse and longitudinal gradients of the spin magnetization in spin-density-functional theory. <i>Physical Review B</i> , 2013 , 88, | 3-3 | 24 |
| 184 | Continuum mechanics for quantum many-body systems: Linear response regime. <i>Physical Review B</i> , 2010 , 81, | 3-3 | 24 |
| 183 | Nonlinear Planar Hall Effect. <i>Physical Review Letters</i> , 2019 , 123, 016801 | 7-4 | 23 |
| 182 | Orbital paramagnetism of electrons in a two-dimensional lattice. <i>Physical Review Letters</i> , 1991 , 67, 358-361 | 3-3 | 23 |
| 181 | Superconductivity and acoustic plasmons in the two-dimensional electron gas. <i>Physical Review B</i> , 1989 , 39, 2740-2743 | 3-3 | 23 |
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| 179 | Collective intersubband transitions in quantum wells: A comparative density-functional study. <i>Physical Review B</i> , 1998 , 58, 15756-15765 | 3-3 | 22 |
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| 177 | Density-functional theory of thermoelectric phenomena. <i>Physical Review Letters</i> , 2014 , 112, 196401 | 7.4 | 21 |
| 176 | Exchange and correlation effects on plasmon dispersions and Coulomb drag in low-density electron bilayers. <i>Physical Review B</i> , 2007 , 75, | 3.3 | 21 |
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| 173 | Linear continuum mechanics for quantum many-body systems. <i>Physical Review Letters</i> , 2009 , 103, 086401 | 7.4 | 20 |
| 172 | Dynamics of the two-dimensional electron gas in the lowest Landau level: a continuum elasticity approach. <i>Journal of Physics Condensed Matter</i> , 1998 , 10, L779-L786 | 1.8 | 20 |
| 171 | Comment on "Universal persistent current in mesoscopic metal rings due to long-range Coulomb interactions". <i>Physical Review Letters</i> , 1994 , 72, 433 | 7.4 | 20 |
| 170 | Hall viscosity and electromagnetic response of electrons in graphene. <i>Physical Review B</i> , 2016 , 94, | 3.3 | 19 |
| 169 | Temperature-driven transient charge and heat currents in nanoscale conductors. <i>Physical Review B</i> , 2016 , 93, | 3.3 | 19 |
| 168 | Edge Plasmons in Two-Component Electron Liquids in the Presence of Pseudomagnetic Fields. <i>Physical Review Letters</i> , 2016 , 117, 196803 | 7.4 | 19 |
| 167 | Theory of current-induced spin polarization in an electron gas. <i>Physical Review B</i> , 2017 , 95, | 3.3 | 19 |
| 166 | Time-dependent density-functional theory beyond the local-density approximation. <i>Physical Review Letters</i> , 2006 , 97, 036403 | 7.4 | 19 |
| 165 | Gilbert damping and spin Coulomb drag in a magnetized electron liquid with spin-orbit interaction. <i>Physical Review B</i> , 2007 , 75, | 3.3 | 19 |
| 164 | Gauge-phonon dominated resistivity in twisted bilayer graphene near magic angle. <i>Physical Review B</i> , 2019 , 99, | 3.3 | 18 |
| 163 | Derivation of effective spin-orbit Hamiltonians and spin lifetimes with application to SrTiO ₃ heterostructures. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 18 |
| 162 | New collective mode in the fractional quantum Hall liquid. <i>Physical Review Letters</i> , 2007 , 98, 026805 | 7.4 | 18 |
| 161 | Exact behavior of the density and spin susceptibilities of a Fermi liquid for large wave vectors: Derivation from diagrammatic many-body theory. <i>Physical Review B</i> , 1988 , 38, 6445-6451 | 3.3 | 18 |
| 160 | Plasmon modes of a massive Dirac plasma, and their superlattices. <i>Physical Review B</i> , 2015 , 91, | 3.3 | 17 |

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| 159 | Anomalous spin precession and spin Hall effect in semiconductor quantum wells. <i>Physical Review B</i> , 2013 , 88, | 3-3 | 17 |
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| 157 | Coulomb interaction and persistent currents in ensembles of mesoscopic metal rings. <i>Physical Review B</i> , 1994 , 50, 7668-7679 | 3-3 | 17 |
| 156 | Relation between current and density profiles of interacting electronic systems in a magnetic field. <i>Physical Review B</i> , 1992 , 46, 10232-10238 | 3-3 | 17 |
| 155 | Exact dynamical exchange-correlation kernel of a weakly inhomogeneous electron gas. <i>Physical Review Letters</i> , 2009 , 102, 113001 | 7-4 | 16 |
| 154 | Time-dependent density functional theory: Derivation of gradient-corrected dynamical exchange-correlational potentials. <i>Physical Review B</i> , 2007 , 76, | 3-3 | 16 |
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| 152 | Non-V-representability of currents in time-dependent many-particle systems. <i>Physical Review B</i> , 2005 , 71, | 3-3 | 16 |
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| 150 | Self-induced effective gauge fields in the copper-oxygen plane of high-Tc perovskites: A lattice and a continuum formulation. <i>Physical Review Letters</i> , 1990 , 65, 1498-1501 | 7-4 | 16 |
| 149 | Current-induced spin polarization at the surface of metallic films: A theorem and an ab initio calculation. <i>Physical Review B</i> , 2015 , 91, | 3-3 | 15 |
| 148 | RKKY range function of a one-dimensional noninteracting electron gas. <i>Physical Review B</i> , 2005 , 72, | 3-3 | 15 |
| 147 | Collective charge-density excitations of noncircular quantum dots in a magnetic field. <i>Physical Review B</i> , 2000 , 61, 2729-2736 | 3-3 | 15 |
| 146 | Linewidths of collective excitations of the inhomogeneous electron gas: Application to two-dimensional quantum strips. <i>Physical Review B</i> , 1998 , 58, 7141-7150 | 3-3 | 15 |
| 145 | Current-density-functional theory of the two-dimensional Wigner crystal in a strong magnetic field. <i>Physical Review B</i> , 1993 , 47, 10105-10111 | 3-3 | 15 |
| 144 | Flexoelectric phase shifter for spin waves. <i>Journal of Applied Physics</i> , 2012 , 111, 083907 | 2-5 | 14 |
| 143 | Time-dependent current-density-functional theory of spin-charge separation and spin drag in one-dimensional ultracold Fermi gases. <i>Physical Review Letters</i> , 2008 , 101, 206402 | 7-4 | 14 |
| 142 | Spin-drag relaxation time in one-dimensional spin-polarized Fermi gases. <i>Physical Review B</i> , 2008 , 77, | 3-3 | 14 |

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| 141 | Effect of quantum hopping on the Coulomb gap of localized electrons in disordered systems. <i>Physical Review B</i> , 1986 , 34, 3003-3006 | 3-3 | 14 |
| 140 | Functional theories of thermoelectric phenomena. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 063001.8 | | 13 |
| 139 | Plasmons in spin-polarized graphene: A way to measure spin polarization. <i>Physical Review B</i> , 2015 , 91, | 3-3 | 13 |
| 138 | Spin Hall drag in electronic bilayers. <i>Physical Review Letters</i> , 2009 , 103, 196601 | 7-4 | 13 |
| 137 | Transport properties of a two-dimensional electron liquid at high magnetic fields. <i>Physical Review B</i> , 2003 , 68, | 3-3 | 13 |
| 136 | Observing the spin Coulomb drag in spin-valve devices. <i>Physical Review B</i> , 2005 , 71, | 3-3 | 13 |
| 135 | U(1)SU(2) gauge invariance made simple for density functional approximations. <i>Physical Review B</i> , 2017 , 96, | 3-3 | 12 |
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| 126 | Collective modes in electron-hole liquids. <i>Solid State Communications</i> , 1982 , 44, 259-261 | 1-6 | 12 |
| 125 | Disorder-enabled hydrodynamics of charge and heat transport in monolayer graphene. <i>2D Materials</i> , 2019 , 6, 035024 | 5-9 | 11 |
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| 123 | Dyakonov-Perel spin relaxation for degenerate electrons in the electron-hole liquid. <i>Physical Review B</i> , 2011 , 83, | 3.3 | 11 |
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| 121 | Temperature dependence of the tunneling amplitude between quantum hall edges. <i>Physical Review Letters</i> , 2005 , 94, 086801 | 7.4 | 11 |
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| 118 | Frequency- and wave-vector-dependent dielectric function of waterlike fluids. <i>Physical Review A</i> , 1992 , 46, 7548-7560 | 2.6 | 11 |
| 117 | Current-density-functional theory of the surface properties of electron-hole droplets in a strong magnetic field. <i>Physical Review B</i> , 1992 , 45, 8494-8497 | 3.3 | 11 |
| 116 | Spin-Orbit Twisted Spin Waves: Group Velocity Control. <i>Physical Review Letters</i> , 2016 , 117, 137204 | 7.4 | 11 |
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