

Giovanni Vignale

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.

284
papers

10,124
citations

52
h-index

91
g-index

302
ext. papers

11,388
ext. citations

4.5
avg. IF

6.56
L-index

#	Paper	IF	Citations
284	Dirac Fermion Cloning, Moiré Flat Bands and Magic Lattice Constants in Epitaxial Monolayer Graphene.. <i>Advanced Materials</i> , 2022 , e2200625	24	1
283	Orbital Hall effect as an alternative to valley Hall effect in gapped graphene. <i>Physical Review B</i> , 2021 , 103,	3.3	7
282	Carrier transport theory for twisted bilayer graphene in the metallic regime. <i>Nature Communications</i> , 2021 , 12, 5737	17.4	2
281	Antiferromagnetism and chiral d-wave superconductivity from an effective tJD model for twisted bilayer graphene. <i>Physical Review B</i> , 2020 , 101,	3.3	2
280	Enhanced hydrodynamic transport in near magic angle twisted bilayer graphene. <i>Physical Review B</i> , 2020 , 101,	3.3	7
279	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	27	35
278	Thermal transport in compensated semimetals: Effect of electron-electron scattering on Lorenz ratio. <i>Physical Review B</i> , 2020 , 102,	3.3	1
277	Superconductivity from collective excitations in magic-angle twisted bilayer graphene. <i>Physical Review Research</i> , 2020 , 2,	3.9	10
276	Temperature collapse of the electric conductivity in bilayer graphene. <i>Physical Review Research</i> , 2020 , 2,	3.9	1
275	Hall viscosity and nonlocal conductivity of gapped graphene. <i>Physical Review B</i> , 2019 , 100,	3.3	2
274	Low-dissipation edge currents without edge states. <i>Physical Review B</i> , 2019 , 99,	3.3	4
273	Spintronics: Field and Current Control of the Electrical Conductivity of an Artificial 2D Honeycomb Lattice (Adv. Mater. 16/2019). <i>Advanced Materials</i> , 2019 , 31, 1970117	24	
272	Disorder-enabled hydrodynamics of charge and heat transport in monolayer graphene. <i>2D Materials</i> , 2019 , 6, 035024	5.9	11
271	Gauge-phonon dominated resistivity in twisted bilayer graphene near magic angle. <i>Physical Review B</i> , 2019 , 99,	3.3	18
270	Breakdown of the Wiedemann-Franz law in AB-stacked bilayer graphene. <i>Physical Review B</i> , 2019 , 99,	3.3	10
269	Field and Current Control of the Electrical Conductivity of an Artificial 2D Honeycomb Lattice. <i>Advanced Materials</i> , 2019 , 31, e1808298	24	3
268	Hidden anisotropy in the Drude conductivity of charge carriers with Dirac-Schrödinger dynamics. <i>Physical Review B</i> , 2019 , 100,	3.3	1

267	Nonlinear Planar Hall Effect. <i>Physical Review Letters</i> , 2019 , 123, 016801	7.4	23
266	Strain engineering of the intrinsic spin Hall conductivity in a SrTiO ₃ quantum well. <i>Physical Review Materials</i> , 2019 , 3,	3.2	5
265	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
264	Chiral surface and edge plasmons in ferromagnetic conductors. <i>Physical Review B</i> , 2018 , 97,	3.3	4
263	Theory of bilinear magneto-electric resistance from topological-insulator surface states 2018 ,		4
262	A shortcut to gradient-corrected magnon dispersion: exchange-only case. <i>European Physical Journal B</i> , 2018 , 91, 1	1.2	4
261	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
260	Functional theories of thermoelectric phenomena. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 063001.8		13
259	Effective mass of quasiparticles from thermodynamics. <i>Physical Review B</i> , 2017 , 96,	3.3	10
258	U(1)SU(2) gauge invariance made simple for density functional approximations. <i>Physical Review B</i> , 2017 , 96,	3.3	12
257	Theory of current-induced spin polarization in an electron gas. <i>Physical Review B</i> , 2017 , 95,	3.3	19
256	Electrically induced charge-density waves in a two-dimensional electron liquid: Effects of negative electronic compressibility. <i>Physical Review B</i> , 2017 , 96,	3.3	1
255	Geometric Derivation of the Stress Tensor of the Homogeneous Electron Gas. <i>Computation</i> , 2017 , 5, 28	2.2	1
254	Hall viscosity and electromagnetic response of electrons in graphene. <i>Physical Review B</i> , 2016 , 94,	3.3	19
253	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
252	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
251	Temperature-driven transient charge and heat currents in nanoscale conductors. <i>Physical Review B</i> , 2016 , 93,	3.3	19
250	Nonlocal Drag of Magnons in a Ferromagnetic Bilayer. <i>Physical Review Letters</i> , 2016 , 116, 237202	7.4	1

249	Theory of the nonlinear Rashba-Edelstein effect: The clean electron gas limit. <i>Physical Review B</i> , 2016 , 93,	3-3	6
248	Graphene electrodynamic in the presence of the extrinsic spin Hall effect. <i>Physical Review B</i> , 2016 , 93,	3-3	4
247	Nonlocal Anomalous Hall Effect. <i>Physical Review Letters</i> , 2016 , 116, 136601	7-4	20
246	Edge Plasmons in Two-Component Electron Liquids in the Presence of Pseudomagnetic Fields. <i>Physical Review Letters</i> , 2016 , 117, 196803	7-4	19
245	Theory of unidirectional spin Hall magnetoresistance in heavy-metal/ferromagnetic-metal bilayers. <i>Physical Review B</i> , 2016 , 94,	3-3	32
244	The quasiparticle lifetime in a doped graphene sheet 2016 , 107-124		6
243	Ab initio electronic structure of quasi-two-dimensional materials: A "native" Gaussian-plane wave approach. <i>Journal of Chemical Physics</i> , 2016 , 144, 204122	3-9	4
242	Magnons in disordered nonstoichiometric low-dimensional magnets. <i>Physical Review B</i> , 2016 , 94,	3-3	6
241	Spin-Orbit Twisted Spin Waves: Group Velocity Control. <i>Physical Review Letters</i> , 2016 , 117, 137204	7-4	11
240	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
239	Inverse Edelstein Effect: an Heuristic Derivation. <i>Acta Physica Polonica A</i> , 2015 , 127, 454-456	0.6	
238	Kondo effect and non-Fermi-liquid behavior in Dirac and Weyl semimetals. <i>Physical Review B</i> , 2015 , 92,	3-3	26
237	Spin Hall and Edelstein Effects in Metallic Films. <i>Acta Physica Polonica A</i> , 2015 , 127, 457-459	0.6	2
236	Ab initio theory of spin entanglement in atoms and molecules. <i>Physical Review B</i> , 2015 , 91,	3-3	4
235	Highly confined low-loss plasmons in graphene-boron nitride heterostructures. <i>Nature Materials</i> , 2015 , 14, 421-5	27	681
234	Intrinsic charge and spin conductivities of doped graphene in the Fermi-liquid regime. <i>Physical Review B</i> , 2015 , 91,	3-3	10
233	Plasmon modes of a massive Dirac plasma, and their superlattices. <i>Physical Review B</i> , 2015 , 91,	3-3	17
232	Plasmons in spin-polarized graphene: A way to measure spin polarization. <i>Physical Review B</i> , 2015 , 91,	3-3	13

231	Anisotropic magnetoresistance driven by surface spin-orbit scattering. <i>Physical Review B</i> , 2015 , 92,	3.3	43
230	Spin current swapping and Hanle spin Hall effect in a two-dimensional electron gas. <i>Physical Review B</i> , 2015 , 92,	3.3	8
229	Violation of the Wiedemann-Franz Law in Hydrodynamic Electron Liquids. <i>Physical Review Letters</i> , 2015 , 115, 056603	7.4	48
228	Derivative discontinuity with localized Hartree-Fock potential. <i>Journal of Chemical Physics</i> , 2015 , 143, 064111	3.9	5
227	Magnetic fluctuations driven insulator-to-metal transition in $\text{Ca}(\text{Ir}(1-x)\text{Ru}x)\text{O}_3$. <i>Scientific Reports</i> , 2015 , 5, 18047	4.9	8
226	Density-functional theory of thermoelectric phenomena. <i>Physical Review Letters</i> , 2014 , 112, 196401	7.4	21
225	Luttinger-field approach to thermoelectric transport in nanoscale conductors. <i>Physical Review B</i> , 2014 , 90,	3.3	30
224	Spin Hall and Edelstein effects in metallic films: From two to three dimensions. <i>Physical Review B</i> , 2014 , 89,	3.3	27
223	How Many-Body Effects Modify the van der Waals Interaction between Graphene Sheets. <i>Physical Review X</i> , 2014 , 4,	9.1	32
222	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
221	Dynamical many-body corrections to the residual resistivity of metals. <i>Physical Review B</i> , 2014 , 89,	3.3	9
220	Microscopic theory of the inverse Edelstein effect. <i>Physical Review Letters</i> , 2014 , 112, 096601	7.4	177
219	Long-lived spin plasmons in a spin-polarized two-dimensional electron gas. <i>Physical Review B</i> , 2014 , 90,	3.3	29
218	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
217	Corbino disk viscometer for 2D quantum electron liquids. <i>Physical Review Letters</i> , 2014 , 113, 235901	7.4	59
216	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
215	Current reversals in rapidly rotating ultracold Fermi gases. <i>Physical Review A</i> , 2014 , 89,	2.6	3
214	Collective spin Hall effect for electron-hole gratings. <i>Physical Review Letters</i> , 2013 , 111, 136602	7.4	3

213	Intrinsic lifetime of Dirac plasmons in graphene. <i>Physical Review B</i> , 2013 , 88,	3-3	57
212	Transverse and longitudinal gradients of the spin magnetization in spin-density-functional theory. <i>Physical Review B</i> , 2013 , 88,	3-3	24
211	Impact of disorder on Dirac plasmon losses. <i>Physical Review B</i> , 2013 , 88,	3-3	42
210	Spin-orbit-interaction induced singularity of the charge density relaxation propagator. <i>Physical Review B</i> , 2013 , 88,	3-3	1
209	Interacting drift-diffusion theory for photoexcited electron-hole gratings in semiconductor quantum wells. <i>Physical Review Letters</i> , 2013 , 110, 096601	7-4	7
208	Comment on "Density and physical current density functional theory" by Xiao-Yin Pan and Virahit Sahni. <i>International Journal of Quantum Chemistry</i> , 2013 , 113, 1422-1423	2-1	8
207	Intrinsic spin Hall effect at asymmetric oxide interfaces: Role of transverse wave functions. <i>Physical Review B</i> , 2013 , 88,	3-3	10
206	Unified Boltzmann transport theory for the drag resistivity close to an interlayer-interaction-driven second-order phase transition. <i>Physical Review B</i> , 2013 , 88,	3-3	6
205	Anomalous spin precession and spin Hall effect in semiconductor quantum wells. <i>Physical Review B</i> , 2013 , 88,	3-3	17
204	Probing the topological exciton condensate via Coulomb drag. <i>Physical Review Letters</i> , 2012 , 108, 186402.	7-4	32
203	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
202	Electron-electron interactions in artificial graphene. <i>Physical Review Letters</i> , 2012 , 108, 246803	7-4	25
201	Spin-orbit interaction from low-symmetry localized defects in semiconductors. <i>Europhysics Letters</i> , 2012 , 98, 17013	1-6	1
200	Flexoelectric phase shifter for spin waves. <i>Journal of Applied Physics</i> , 2012 , 111, 083907	2-5	14
199	Short-time spin dynamics in strongly correlated few-fermion systems. <i>Physical Review Letters</i> , 2012 , 108, 245302	7-4	4
198	Spin transport in a unitary Fermi gas close to the BCS transition. <i>Physical Review A</i> , 2012 , 86,	2-6	12
197	Time-Dependent Current Density Functional Theory. <i>Lecture Notes in Physics</i> , 2012 , 457-469	0-8	7
196	Reply to "Comment on "The quantum mechanics of electric conduction in crystals," by Massimiliano Sassoli de Bianchi [Am. J. Phys. 79 (5), 549-551 (2010)]. <i>American Journal of Physics</i> , 2011 , 79, 550-551	0-7	

195	Two-dimensional Mott-Hubbard electrons in an artificial honeycomb lattice. <i>Science</i> , 2011 , 332, 1176-9	33.3	153
194	Spin-current generation from Coulomb-Rashba interaction in semiconductor bilayers. <i>Physical Review B</i> , 2011 , 84,	3.3	6
193	Drude weight, plasmon dispersion, and ac conductivity in doped graphene sheets. <i>Physical Review B</i> , 2011 , 84,	3.3	130
192	Electric control of spin currents and spin-wave logic. <i>Physical Review Letters</i> , 2011 , 106, 247203	7.4	58
191	Voltage-controlled spin-wave-based logic gate 2011 ,		1
190	Spin drag in ultracold Fermi mixtures with repulsive interactions. <i>New Journal of Physics</i> , 2011 , 13, 045010	10.9	7
189	Comment on Modifying the variational principle in the action-integral-functional derivation of time-dependent density-functional theory \square <i>Physical Review A</i> , 2011 , 83,	2.6	5
188	Quantum continuum mechanics in a strong magnetic field. <i>Physical Review B</i> , 2011 , 84,	3.3	2
187	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
186	Persistent spin oscillations in a spin-orbit-coupled superconductor. <i>Physical Review Letters</i> , 2011 , 107, 077004	7.4	12
185	Plasmon mass and Drude weight in strongly spin-orbit-coupled two-dimensional electron gases. <i>Physical Review B</i> , 2011 , 83,	3.3	30
184	Dyakonov-Perel spin relaxation for degenerate electrons in the electron-hole liquid. <i>Physical Review B</i> , 2011 , 83,	3.3	11
183	Viscous corrections to the resistance of nanojunctions: A dispersion relation approach. <i>Physical Review B</i> , 2011 , 83,	3.3	12
182	Antiadiabatic limit of the exchange-correlation kernels of an inhomogeneous electron gas. <i>Physical Review B</i> , 2010 , 81,	3.3	5
181	Continuum mechanics for quantum many-body systems: Linear response regime. <i>Physical Review B</i> , 2010 , 81,	3.3	24
180	Coulomb-induced Rashba spin-orbit coupling in semiconductor quantum wells. <i>Physical Review Letters</i> , 2010 , 104, 226601	7.4	
179	Side jumps in the spin Hall effect: Construction of the Boltzmann collision integral. <i>Physical Review B</i> , 2010 , 81,	3.3	27
178	Spin drag in an ultracold fermi gas on the verge of ferromagnetic instability. <i>Physical Review Letters</i> , 2010 , 104, 220403	7.4	33

177	Communications: On the relation between the scalar and tensor exchange-correlation kernels of the time-dependent density-functional theory. <i>Journal of Chemical Physics</i> , 2010 , 133, 021101	3.9	3
176	Spin gaps and spin-flip energies in density-functional theory. <i>Physical Review B</i> , 2010 , 81,	3.3	29
175	Gauge-invariant formulation of spin-current density-functional theory. <i>Physical Review B</i> , 2010 , 81,	3.3	11
174	Beating of Friedel oscillations induced by spin-orbit interaction. <i>Physical Review B</i> , 2010 , 81,	3.3	31
173	Many-body orbital paramagnetism in doped graphene sheets. <i>Physical Review Letters</i> , 2010 , 104, 225503	7.4	38
172	The quantum mechanics of electric conduction in crystals. <i>American Journal of Physics</i> , 2010 , 78, 954-960	6.7	7
171	Ten Years of Spin Hall Effect. <i>Journal of Superconductivity and Novel Magnetism</i> , 2010 , 23, 3-10	1.5	90
170	Anisotropic plasmons in a two-dimensional electron gas with spin-orbit interaction. <i>Physical Review B</i> , 2009 , 79,	3.3	56
169	Ambipolar spin diffusion and D'yakonov-Perel' spin relaxation in GaAs quantum wells. <i>Physical Review B</i> , 2009 , 79,	3.3	37
168	Linear continuum mechanics for quantum many-body systems. <i>Physical Review Letters</i> , 2009 , 103, 086401	7.4	20
167	Spin Hall drag in electronic bilayers. <i>Physical Review Letters</i> , 2009 , 103, 196601	7.4	13
166	Engineering artificial graphene in a two-dimensional electron gas. <i>Physical Review B</i> , 2009 , 79,	3.3	154
165	Exact dynamical exchange-correlation kernel of a weakly inhomogeneous electron gas. <i>Physical Review Letters</i> , 2009 , 102, 113001	7.4	16
164	Lorentz shear modulus of fractional quantum Hall states. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 275603	1.8	48
163	Spin-Hall effect and spin-Coulomb drag in doped semiconductors. <i>Journal of Physics Condensed Matter</i> , 2009 , 21, 253202	1.8	28
162	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
161	Incompleteness of the Landauer formula for electronic transport. <i>Physical Review B</i> , 2009 , 79,	3.3	61
160	Transverse spin diffusion in ferromagnets. <i>Physical Review B</i> , 2009 , 79,	3.3	52

159	Linear response of doped graphene sheets to vector potentials. <i>Physical Review B</i> , 2009 , 80,	3.3	88
158	Density-functional theory for strongly interacting electrons. <i>Physical Review Letters</i> , 2009 , 103, 166402	7.4	73
157	Superpositions of Chiral Molecules. <i>Physics Magazine</i> , 2009 , 2,	1.1	2
156	Quantum stress focusing in descriptive chemistry. <i>Physical Review Letters</i> , 2008 , 100, 206405	7.4	37
155	TIME-DEPENDENT CURRENT-DENSITY FUNCTIONAL THEORY FOR THE FRICTION OF IONS IN AN INTERACTING ELECTRON GAS. <i>International Journal of Modern Physics B</i> , 2008 , 22, 3813-3839	1.1	11
154	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
153	Inhomogeneous Gilbert damping from impurities and electron-electron interactions. <i>Physical Review B</i> , 2008 , 78,	3.3	41
152	Absence of certain exchange driven instabilities of an electron gas at high densities. <i>Physical Review B</i> , 2008 , 78,	3.3	3
151	Finite width and local field corrections to spin coulomb drag in a quasi-two-dimensional electron gas. <i>Physical Review Letters</i> , 2008 , 100, 016603	7.4	17
150	Real-time resolution of the causality paradox of time-dependent density-functional theory. <i>Physical Review A</i> , 2008 , 77,	2.6	66
149	Temperature dependence of persistent spin currents in a spin-orbit-coupled electron gas: A density-matrix approach. <i>Physical Review B</i> , 2008 , 77,	3.3	7
148	Spin-drag relaxation time in one-dimensional spin-polarized Fermi gases. <i>Physical Review B</i> , 2008 , 77,	3.3	14
147	Phase diagram of the spin Hall effect. <i>Physical Review Letters</i> , 2008 , 100, 026602	7.4	31
146	Exchange and correlation effect on spin Coulomb drag in a quasi-two-dimensional electron system. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1590-1592	3	
145	Degenerate ground states and nonunique potentials: Breakdown and restoration of density functionals. <i>Physical Review A</i> , 2007 , 76,	2.6	10
144	Electronic viscosity in a quantum well: A test for the local-density approximation. <i>Physical Review B</i> , 2007 , 76,	3.3	10
143	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
142	Time-dependent density functional theory: Derivation of gradient-corrected dynamical exchange-correlational potentials. <i>Physical Review B</i> , 2007 , 76,	3.3	16

141	Lorentz shear modulus of a two-dimensional electron gas at high magnetic field. <i>Physical Review B</i> , 2007 , 76,	3-3	52
140	Spin drag and spin-charge separation in cold fermi gases. <i>Physical Review Letters</i> , 2007 , 98, 266403	7-4	52
139	Sai et al. Reply:. <i>Physical Review Letters</i> , 2007 , 98,	7-4	6
138	New collective mode in the fractional quantum Hall liquid. <i>Physical Review Letters</i> , 2007 , 98, 026805	7-4	18
137	Quantum theory of orbital magnetization and its generalization to interacting systems. <i>Physical Review Letters</i> , 2007 , 99, 197202	7-4	134
136	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
135	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
134	Theory of the pseudospin resonance in semiconductor bilayers. <i>Physical Review Letters</i> , 2007 , 99, 206802	7-4	16
133	Current Density Functional Theory. <i>Lecture Notes in Physics</i> , 2006 , 75-91	0-8	5
132	Spin-Hall effect in a [110] GaAs quantum well. <i>Physical Review Letters</i> , 2006 , 97, 266601	7-4	30
131	Relaxation in time-dependent current-density-functional theory. <i>Physical Review Letters</i> , 2006 , 96, 016405	7-4	39
130	Analytic expression for the diamagnetic susceptibility of a uniform electron gas. <i>Physical Review B</i> , 2006 , 74,	3-3	9
129	Coulomb corrections to the extrinsic spin-Hall effect of a two-dimensional electron gas. <i>Physical Review B</i> , 2006 , 73,	3-3	33
128	Time-dependent density-functional theory beyond the local-density approximation. <i>Physical Review Letters</i> , 2006 , 97, 036403	7-4	19
127	Integral charge quasiparticles in a fractional quantum Hall liquid. <i>Physical Review B</i> , 2006 , 73,	3-3	4
126	Exchange and correlation effects on drag in low density electron bilayers: Coulomb and virtual-optical-phonon-mediated electron-electron interaction. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 34, 421-424	3	1
125	Temperature-dependent theory of tunneling in the fractional quantum Hall effect. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 34, 199-202	3	
124	Linear response theory 2005 , 111-156		1

123	Linear response of independent electrons 2005 , 157-187		1
122	RKKY range function of a one-dimensional noninteracting electron gas. <i>Physical Review B</i> , 2005 , 72,	3.3	15
121	Lifetime of a quasiparticle in an electron liquid. <i>Physical Review B</i> , 2005 , 71,	3.3	29
120	Non-V-representability of currents in time-dependent many-particle systems. <i>Physical Review B</i> , 2005 , 71,	3.3	16
119	Heterostructure unipolar spin transistors. <i>Journal of Applied Physics</i> , 2005 , 97, 104508	2.5	5
118	Temperature dependence of the tunneling amplitude between quantum hall edges. <i>Physical Review Letters</i> , 2005 , 94, 086801	7.4	11
117	Observing the spin Coulomb drag in spin-valve devices. <i>Physical Review B</i> , 2005 , 71,	3.3	13
116	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
115	Dynamical corrections to the DFT-LDA electron conductance in nanoscale systems. <i>Physical Review Letters</i> , 2005 , 94, 186810	7.4	155
114	Quantum Theory of the Electron Liquid 2005 ,		1109
113	High field and Coulomb interaction effects on spin injection in degenerate semiconductors. <i>Semiconductor Science and Technology</i> , 2004 , 19, S383-S385	1.8	1
112	Effect of electrical bias on spin transport across a magnetic domain wall. <i>Journal of Applied Physics</i> , 2004 , 96, 7424-7427	2.5	6
111	Spin mass of an electron liquid. <i>Physical Review Letters</i> , 2004 , 93, 106601	7.4	4
110	Mapping from current densities to vector potentials in time-dependent current density functional theory. <i>Physical Review B</i> , 2004 , 70,	3.3	89
109	Spin-resolved correlation kinetic energy of the spin-polarized electron gas. <i>Physical Review B</i> , 2004 , 70,	3.3	4
108	Effect of the Coulomb interaction on spin injection in semiconductor structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2004 , 272-276, 1928-1929	2.8	
107	Quasi-particle tunneling between fractional quantum Hall edges. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 22, 185-188	3	4
106	Intrinsic Decay of Spin Currents: The Spin Coulomb Drag Effect. <i>Journal of Superconductivity and Novel Magnetism</i> , 2003 , 16, 253-256		5

105	Coulomb drag, magnetoresistance, and spin-current injection in magnetic multilayers. <i>Solid State Communications</i> , 2003 , 127, 829-834	1.6	5
104	Dynamics of dissipative quantum Hall edges. <i>Physical Review B</i> , 2003 , 67,	3.3	26
103	Solving the ultranonlocality problem in time-dependent spin-density-functional theory. <i>Physical Review Letters</i> , 2003 , 90, 066402	7.4	25
102	Dynamical exchange-correlation potentials for the electron liquid in the spin channel. <i>Physical Review B</i> , 2003 , 68,	3.3	12
101	Transport properties of a two-dimensional electron liquid at high magnetic fields. <i>Physical Review B</i> , 2003 , 68,	3.3	13
100	Spin Coulomb drag in the two-dimensional electron liquid. <i>Physical Review B</i> , 2003 , 68,	3.3	45
99	Nonlinear quasiparticle tunneling between fractional quantum hall edges. <i>Physical Review Letters</i> , 2003 , 90, 046805	7.4	50
98	Spin Coulomb drag and spin diffusion in doped semiconductors. <i>Physica B: Condensed Matter</i> , 2002 , 314, 239-243	2.8	
97	Nonlinear spin-polarized transport through a ferromagnetic domain wall. <i>Physical Review Letters</i> , 2002 , 89, 098302	7.4	29
96	Nonuniqueness and derivative discontinuities in density-functional theories for current-carrying and superconducting systems. <i>Physical Review B</i> , 2002 , 65,	3.3	55
95	Dynamical exchange-correlation potentials for an electron liquid. <i>Physical Review B</i> , 2002 , 65,	3.3	59
94	Spin dynamics from time-dependent spin-density-functional theory. <i>Physical Review Letters</i> , 2002 , 88, 056404	7.4	50
93	Time-dependent current-density-functional theory for the linear response of weakly disordered systems. <i>Physical Review B</i> , 2002 , 65,	3.3	64
92	Coulomb interaction effects in spin-polarized transport. <i>Physical Review B</i> , 2002 , 65,	3.3	58
91	Density Functional Theory of Quantum Dots in A Magnetic Field 2002 , 313-318		
90	TIME-DEPENDENT DENSITY FUNCTIONAL THEORY BEYOND THE ADIABATIC APPROXIMATION. <i>International Journal of Modern Physics B</i> , 2001 , 15, 1714-1723	1.1	10
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