

Giovanni Vignale

List of Publications by Year in descending order

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papers

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28190

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302
all docs

302
docs citations

302
times ranked

7608
citing authors

#	ARTICLE	IF	CITATIONS
1	Pseudogauge field driven acoustoelectric current in two-dimensional hexagonal Dirac materials. Physical Review B, 2022, 105, .	1.1	8
2	Dirac Fermion Cloning, Moiré Flat Bands, and Magic Lattice Constants in Epitaxial Monolayer Graphene. Advanced Materials, 2022, 34, e2200625.	11.1	9
3	Orbital Hall effect in bilayer transition metal dichalcogenides: From the intra-atomic approximation to the Bloch states orbital magnetic moment approach. Physical Review B, 2022, 105, .	1.1	11
4	Orbital Hall effect as an alternative to valley Hall effect in gapped graphene. Physical Review B, 2021, 103, .	1.1	44
5	Carrier transport theory for twisted bilayer graphene in the metallic regime. Nature Communications, 2021, 12, 5737.	5.8	17
6	Collective excitations and quantum incompressibility in electron-hole bilayers. Physical Review B, 2021, 104, .	1.1	0
7	Antiferromagnetism and chiral d -wave superconductivity from an effective t - \hat{a} - J model for twisted bilayer graphene. Physical Review B, 2020, 101, .	1.1	5
8	First-principles perspective on magnetic second sound. Physical Review B, 2020, 101, .	1.1	1
9	Enhanced hydrodynamic transport in near magic angle twisted bilayer graphene. Physical Review B, 2020, 101, .	1.1	10
10	Coexistence of large conventional and planar spin Hall effect with long spin diffusion length in a low-symmetry semimetal at room temperature. Nature Materials, 2020, 19, 292-298.	13.3	77
11	Thermal transport in compensated semimetals: Effect of electron-electron scattering on Lorenz ratio. Physical Review B, 2020, 102, .	1.1	11
12	Superconductivity from collective excitations in magic-angle twisted bilayer graphene. Physical Review Research, 2020, 2, .	1.3	33
13	Temperature collapse of the electric conductivity in bilayer graphene. Physical Review Research, 2020, 2, .	1.3	2
14	Hidden anisotropy in the Drude conductivity of charge carriers with Dirac-Schrödinger dynamics. Physical Review B, 2019, 100, .	1.1	3
15	Nonlinear Planar Hall Effect. Physical Review Letters, 2019, 123, 016801.	2.9	67
16	Hall viscosity and nonlocal conductivity of gapped graphene. Physical Review B, 2019, 100, .	1.1	3
17	Low-dissipation edge currents without edge states. Physical Review B, 2019, 99, .	1.1	6
18	Spintronics: Field and Current Control of the Electrical Conductivity of an Artificial 2D Honeycomb Lattice (Adv. Mater. 16/2019). Advanced Materials, 2019, 31, 1970117.	11.1	0

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19	Disorder-enabled hydrodynamics of charge and heat transport in monolayer graphene. 2D Materials, 2019, 6, 035024.	2.0	20
20	Gauge-phonon dominated resistivity in twisted bilayer graphene near magic angle. Physical Review B, 2019, 99, .	1.1	30
21	Breakdown of the Wiedemann-Franz law in $A\cos^2(k_x) + B\cos^2(k_y)$ -stacked bilayer graphene. Physical Review B, 2019, 99, .	1.1	16
22	Field and Current Control of the Electrical Conductivity of an Artificial 2D Honeycomb Lattice. Advanced Materials, 2019, 31, e1808298.	11.1	6
23	Strain engineering of the intrinsic spin Hall conductivity in a SrTiO ₃ quantum well. Physical Review Materials, 2019, 3, .	0.9	8
24	Bilinear magnetoelectric resistance as a probe of three-dimensional spin texture in topological surface states. Nature Physics, 2018, 14, 495-499.	6.5	108
25	A shortcut to gradient-corrected magnon dispersion: exchange-only case. European Physical Journal B, 2018, 91, 1.	0.6	7
26	Observation of Out-of-Plane Spin Texture in a $SrTiO_3$ quantum well. Physical Review Letters, 2018, 120, 266802.	11.1	9
27	Chiral surface and edge plasmons in ferromagnetic conductors. Physical Review B, 2018, 97, .	1.1	7
28	Theory of bilinear magneto-electric resistance from topological-insulator surface states. , 2018, , .		10
29	Functional theories of thermoelectric phenomena. Journal of Physics Condensed Matter, 2017, 29, 063001.	0.7	15
30	Effective mass of quasiparticles from thermodynamics. Physical Review B, 2017, 96, .	1.1	14
31	U gauge invariance made simple for density functional approximations. Physical Review B, 2017, 96, .	1.1	26
32	Theory of current-induced spin polarization in an electron gas. Physical Review B, 2017, 95, .	1.1	30
33	Electrically induced charge-density waves in a two-dimensional electron liquid: Effects of negative electronic compressibility. Physical Review B, 2017, 96, .	1.1	4
34	Geometric Derivation of the Stress Tensor of the Homogeneous Electron Gas. Computation, 2017, 5, 28.	1.0	1
35	Theory of unidirectional magnetoresistance in magnetic heterostructures. , 2017, , .		1
36	Magnetic fluctuations driven insulator-to-metal transition in Ca(Ir _{1-x} Ru _x)O ₃ . Scientific Reports, 2016, 5, 18047.	1.6	10

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37	Ab initio electronic structure of quasi-two-dimensional materials: A “enative-Gaussian” plane wave approach. Journal of Chemical Physics, 2016, 144, 204122.	1.2	5
38	Magnons in disordered nonstoichiometric low-dimensional magnets. Physical Review B, 2016, 94, .	1.1	13
39	Spin-Orbit Twisted Spin Waves: Group Velocity Control. Physical Review Letters, 2016, 117, 137204.	2.9	16
40	Hall viscosity and electromagnetic response of electrons in graphene. Physical Review B, 2016, 94, .	1.1	28
41	Origin of inverse Rashba-Edelstein effect detected at the Cu/Bi interface using lateral spin valves. Physical Review B, 2016, 93, .	1.1	87
42	Bulk and shear viscosities of the two-dimensional electron liquid in a doped graphene sheet. Physical Review B, 2016, 93, .	1.1	118
43	Temperature-driven transient charge and heat currents in nanoscale conductors. Physical Review B, 2016, 93, .	1.1	21
44	Nonlocal Drag of Magnons in a Ferromagnetic Bilayer. Physical Review Letters, 2016, 116, 237202.	2.9	5
45	Theory of the nonlinear Rashba-Edelstein effect: The clean electron gas limit. Physical Review B, 2016, 93, .	1.1	7
46	Graphene electrodynamic in the presence of the extrinsic spin Hall effect. Physical Review B, 2016, 93, .	1.1	5
47	Nonlocal Anomalous Hall Effect. Physical Review Letters, 2016, 116, 136601.	2.9	26
48	Edge Plasmons in Two-Component Electron Liquids in the Presence of Pseudomagnetic Fields. Physical Review Letters, 2016, 117, 196803.	2.9	25
49	Theory of unidirectional spin Hall magnetoresistance in heavy-metal/ferromagnetic-metal bilayers. Physical Review B, 2016, 94, .	1.1	62
50	The quasiparticle lifetime in a doped graphene sheet. , 2016, , 107-124.		6
51	Intrinsic charge and spin conductivities of doped graphene in the Fermi-liquid regime. Physical Review B, 2015, 91, .	1.1	12
52	Plasmon modes of a massive Dirac plasma, and their superlattices. Physical Review B, 2015, 91, .	1.1	31
53	Plasmons in spin-polarized graphene: A way to measure spin polarization. Physical Review B, 2015, 91, .	1.1	19
54	Anisotropic magnetoresistance driven by surface spin-orbit scattering. Physical Review B, 2015, 92, .	1.1	47

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55	Spin current swapping and Hanle spin Hall effect in a two-dimensional electron gas. <i>Physical Review B</i> , 2015, 92, .	1.1	9
56	Violation of the Wiedemann-Franz Law in Hydrodynamic Electron Liquids. <i>Physical Review Letters</i> , 2015, 115, 056603.	2.9	69
57	Derivative discontinuity with localized Hartree-Fock potential. <i>Journal of Chemical Physics</i> , 2015, 143, 064111.	1.2	6
58	Current-induced spin polarization at the surface of metallic films: A theorem and an <i>ab initio</i> calculation. <i>Physical Review B</i> , 2015, 91, .	1.1	24
59	Inverse Edelstein Effect: an Heuristic Derivation. <i>Acta Physica Polonica A</i> , 2015, 127, 454-456.	0.2	0
60	Kondo effect and non-Fermi-liquid behavior in Dirac and Weyl semimetals. <i>Physical Review B</i> , 2015, 92, .	1.1	38
61	Spin Hall and Edelstein Effects in Metallic Films. <i>Acta Physica Polonica A</i> , 2015, 127, 457-459.	0.2	3
62	Ab initio theory of spin entanglement in atoms and molecules. <i>Physical Review B</i> , 2015, 91, .	1.1	5
63	Highly confined low-loss plasmons in graphene-boron nitride heterostructures. <i>Nature Materials</i> , 2015, 14, 421-425.	13.3	847
64	Theory of coupled spin-charge transport due to spin-orbit interaction in inhomogeneous two-dimensional electron liquids. <i>Physical Review B</i> , 2014, 90, .	1.1	42
65	Corbino Disk Viscometer for 2D Quantum Electron Liquids. <i>Physical Review Letters</i> , 2014, 113, 235901.	2.9	78
66	Derivation of effective spin-orbit Hamiltonians and spin lifetimes with application to SrTiO_3 . <i>Physical Review B</i> , 2014, 89, .		
67	Current reversals in rapidly rotating ultracold Fermi gases. <i>Physical Review A</i> , 2014, 89, .	1.0	15
68	Density-Functional Theory of Thermoelectric Phenomena. <i>Physical Review Letters</i> , 2014, 112, 196401.	2.9	24
69	Luttinger-field approach to thermoelectric transport in nanoscale conductors. <i>Physical Review B</i> , 2014, 90, .	1.1	35
70	Spin Hall and Edelstein effects in metallic films: From two to three dimensions. <i>Physical Review B</i> , 2014, 89, .	1.1	30
71	How Many-Body Effects Modify the van der Waals Interaction between Graphene Sheets. <i>Physical Review X</i> , 2014, 4, .	2.8	35
72	Plasmon losses due to electron-phonon scattering: The case of graphene encapsulated in hexagonal boron nitride. <i>Physical Review B</i> , 2014, 90, .	1.1	83

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73	Dynamical many-body corrections to the residual resistivity of metals. <i>Physical Review B</i> , 2014, 89, .	1.1	11
74	Microscopic Theory of the Inverse Edelstein Effect. <i>Physical Review Letters</i> , 2014, 112, 096601.	2.9	224
75	Long-lived spin plasmons in a spin-polarized two-dimensional electron gas. <i>Physical Review B</i> , 2014, 90, .	1.1	44
76	Collective Spin Hall Effect for Electron-Hole Gratings. <i>Physical Review Letters</i> , 2013, 111, 136602.	2.9	4
77	Intrinsic lifetime of Dirac plasmons in graphene. <i>Physical Review B</i> , 2013, 88, .	1.1	75
78	Transverse and longitudinal gradients of the spin magnetization in spin-density-functional theory. <i>Physical Review B</i> , 2013, 88, .	1.1	31
79	Impact of disorder on Dirac plasmon losses. <i>Physical Review B</i> , 2013, 88, .	1.1	51
80	Spin-orbit-interaction induced singularity of the charge density relaxation propagator. <i>Physical Review B</i> , 2013, 88, .	1.1	2
81	Interacting Drift-Diffusion Theory for Photoexcited Electron-Hole Gratings in Semiconductor Quantum Wells. <i>Physical Review Letters</i> , 2013, 110, 096601.	2.9	8
82	Comment on "density and physical current density functional theory" by Xiao-Yin Pan and Viraht Sahni. <i>International Journal of Quantum Chemistry</i> , 2013, 113, 1422-1423.	1.0	13
83	Intrinsic spin Hall effect at asymmetric oxide interfaces: Role of transverse wave functions. <i>Physical Review B</i> , 2013, 88, .	1.1	12
84	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, .	1.1	7
85	Anomalous spin precession and spin Hall effect in semiconductor quantum wells. <i>Physical Review B</i> , 2013, 88, .	1.1	25
86	Spin-orbit interaction from low-symmetry localized defects in semiconductors. <i>Europhysics Letters</i> , 2012, 98, 17013.	0.7	1
87	Flexoelectric phase shifter for spin waves. <i>Journal of Applied Physics</i> , 2012, 111, 083907.	1.1	20
88	Short-Time Spin Dynamics in Strongly Correlated Few-Fermion Systems. <i>Physical Review Letters</i> , 2012, 108, 245302.	2.9	7
89	Spin transport in a unitary Fermi gas close to the BCS transition. <i>Physical Review A</i> , 2012, 86, .	1.0	12
90	Probing the Topological Exciton Condensate via Coulomb Drag. <i>Physical Review Letters</i> , 2012, 108, 186402.	2.9	37

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91	Doppler speed gun for spins. <i>Nature Physics</i> , 2012, 8, 115-116.	6.5	0
92	Spin-orbit interaction in a two-dimensional electron gas: A $SU(2)$ formulation. <i>Annalen Der Physik</i> , 2012, 524, .	0.9	75
93	Electron-Electron Interactions in Artificial Graphene. <i>Physical Review Letters</i> , 2012, 108, 246803.	2.9	32
94	Time-Dependent Current Density Functional Theory. <i>Lecture Notes in Physics</i> , 2012, , 457-469.	0.3	9
95	Voltage-controlled spin-wave-based logic gate. , 2011, , .		1
96	Reply to "Comment on "The quantum mechanics of electric conduction in crystals," by Massimiliano Sassoli de Bianchi [<i>Am. J. Phys.</i> 79 (5), 549-551 (2010)]. <i>American Journal of Physics</i> , 2011, 79, 550-551.	0.3	0
97	Two-Dimensional Mott-Hubbard Electrons in an Artificial Honeycomb Lattice. <i>Science</i> , 2011, 332, 1176-1179.	6.0	187
98	Spin-current generation from Coulomb-Rashba interaction in semiconductor bilayers. <i>Physical Review B</i> , 2011, 84, .	1.1	8
99	Drude weight, plasmon dispersion, and ac conductivity in doped graphene sheets. <i>Physical Review B</i> , 2011, 84, .	1.1	153
100	Electric Control of Spin Currents and Spin-Wave Logic. <i>Physical Review Letters</i> , 2011, 106, 247203.	2.9	81
101	Spin drag in ultracold Fermi mixtures with repulsive interactions. <i>New Journal of Physics</i> , 2011, 13, 045010.	1.2	9
102	Comment on "Modifying the variational principle in the action-integral-functional derivation of time-dependent density-functional theory". <i>Physical Review A</i> , 2011, 83, .	1.0	5
103	Quantum continuum mechanics in a strong magnetic field. <i>Physical Review B</i> , 2011, 84, .	1.1	2
104	Optics of Semiconductors from Meta-Generalized-Gradient-Approximation-Based Time-Dependent Density-Functional Theory. <i>Physical Review Letters</i> , 2011, 107, 216402.	2.9	68
105	Persistent Spin Oscillations in a Spin-Orbit-Coupled Superconductor. <i>Physical Review Letters</i> , 2011, 107, 077004.	2.9	12
106	Plasmon mass and Drude weight in strongly spin-orbit-coupled two-dimensional electron gases. <i>Physical Review B</i> , 2011, 83, .	1.1	39
107	Dyakonov-Perel spin relaxation for degenerate electrons in the electron-hole liquid. <i>Physical Review B</i> , 2011, 83, .	1.1	19
108	Viscous corrections to the resistance of nanojunctions: A dispersion relation approach. <i>Physical Review B</i> , 2011, 83, .	1.1	12

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109	The quantum mechanics of electric conduction in crystals. American Journal of Physics, 2010, 78, 954-960.	0.3	7
110	Ten Years of Spin Hall Effect. Journal of Superconductivity and Novel Magnetism, 2010, 23, 3-10.	0.8	107
111	Antiadiabatic limit of the exchange-correlation kernels of an inhomogeneous electron gas. Physical Review B, 2010, 81, .	1.1	8
112	Continuum mechanics for quantum many-body systems: Linear response regime. Physical Review B, 2010, 81, .	1.1	30
113	Coulomb-Induced Rashba Spin-Orbit Coupling in Semiconductor Quantum Wells. Physical Review Letters, 2010, 104, 226601.	2.9	0
114	Side jumps in the spin Hall effect: Construction of the Boltzmann collision integral. Physical Review B, 2010, 81, .	1.1	35
115	Spin Drag in an Ultracold Fermi Gas on the Verge of Ferromagnetic Instability. Physical Review Letters, 2010, 104, 220403.	2.9	38
116	Communications: On the relation between the scalar and tensor exchange-correlation kernels of the time-dependent density-functional theory. Journal of Chemical Physics, 2010, 133, 021101.	1.2	3
117	Spin gaps and spin-flip energies in density-functional theory. Physical Review B, 2010, 81, .	1.1	33
118	Gauge-invariant formulation of spin-current density-functional theory. Physical Review B, 2010, 81, .	1.1	14
119	Beating of Friedel oscillations induced by spin-orbit interaction. Physical Review B, 2010, 81, .	1.1	35
120	Many-Body Orbital Paramagnetism in Doped Graphene Sheets. Physical Review Letters, 2010, 104, 225503.	2.9	57
121	Anisotropic plasmons in a two-dimensional electron gas with spin-orbit interaction. Physical Review B, 2009, 79, .	1.1	63
122	Ambipolar spin diffusion and D'yakonov-Perel' spin relaxation in GaAs quantum wells. Physical Review B, 2009, 79, .	1.1	42
123	Linear Continuum Mechanics for Quantum Many-Body Systems. Physical Review Letters, 2009, 103, 086401.	2.9	22
124	Spin Hall Drag in Electronic Bilayers. Physical Review Letters, 2009, 103, 196601.	2.9	16
125	Engineering artificial graphene in a two-dimensional electron gas. Physical Review B, 2009, 79, .	1.1	180
126	Exact Dynamical Exchange-Correlation Kernel of a Weakly Inhomogeneous Electron Gas. Physical Review Letters, 2009, 102, 113001.	2.9	18

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127	Lorentz shear modulus of fractional quantum Hall states. Journal of Physics Condensed Matter, 2009, 21, 275603.	0.7	52
128	Spin-Hall effect and spin-Coulomb drag in doped semiconductors. Journal of Physics Condensed Matter, 2009, 21, 253202.	0.7	33
129	Electronic Zero-Point Oscillations in the Strong-Interaction Limit of Density Functional Theory. Journal of Chemical Theory and Computation, 2009, 5, 743-753.	2.3	79
130	Incompleteness of the Landauer formula for electronic transport. Physical Review B, 2009, 79, .	1.1	63
131	Transverse spin diffusion in ferromagnets. Physical Review B, 2009, 79, .	1.1	54
132	Linear response of doped graphene sheets to vector potentials. Physical Review B, 2009, 80, .	1.1	107
133	Density-Functional Theory for Strongly Interacting Electrons. Physical Review Letters, 2009, 103, 166402.	2.9	83
134	Spins in cold atoms – what a drag!. Physics Magazine, 2009, 2, .	0.1	2
135	Spin-Polarized Electron Transport in GaAs: Role of Holes. , 2009, , .		0
136	Exchange and correlation effect on spin Coulomb drag in a quasi-two-dimensional electron system. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1590-1592.	1.3	1
137	Quantum Stress Focusing in Descriptive Chemistry. Physical Review Letters, 2008, 100, 206405.	2.9	41
138	TIME-DEPENDENT CURRENT-DENSITY FUNCTIONAL THEORY FOR THE FRICTION OF IONS IN AN INTERACTING ELECTRON GAS. International Journal of Modern Physics B, 2008, 22, 3813-3839.	1.0	12
139	Time-Dependent Current-Density-Functional Theory of Spin-Charge Separation and Spin Drag in One-Dimensional Ultracold Fermi Gases. Physical Review Letters, 2008, 101, 206402.	2.9	17
140	Inhomogeneous Gilbert damping from impurities and electron-electron interactions. Physical Review B, 2008, 78, .	1.1	46
141	Absence of certain exchange driven instabilities of an electron gas at high densities. Physical Review B, 2008, 78, .	1.1	3
142	Finite Width and Local Field Corrections to Spin Coulomb Drag in a Quasi-Two-Dimensional Electron Gas. Physical Review Letters, 2008, 100, 016603.	2.9	19
143	Real-time resolution of the causality paradox of time-dependent density-functional theory. Physical Review A, 2008, 77, .	1.0	72
144	Temperature dependence of persistent spin currents in a spin-orbit-coupled electron gas: A density-matrix approach. Physical Review B, 2008, 77, .	1.1	8

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145	Spin-drag relaxation time in one-dimensional spin-polarized Fermi gases. <i>Physical Review B</i> , 2008, 77, .	1.1	17
146	Phase Diagram of the Spin Hall Effect. <i>Physical Review Letters</i> , 2008, 100, 026602.	2.9	33
147	Electronic viscosity in a quantum well: A test for the local-density approximation. <i>Physical Review B</i> , 2007, 76, .	1.1	10
148	Gilbert damping and spin Coulomb drag in a magnetized electron liquid with spin-orbit interaction. <i>Physical Review B</i> , 2007, 75, .	1.1	21
149	Time-dependent density functional theory: Derivation of gradient-corrected dynamical exchange-correlational potentials. <i>Physical Review B</i> , 2007, 76, .	1.1	19
150	Lorentz shear modulus of a two-dimensional electron gas at high magnetic field. <i>Physical Review B</i> , 2007, 76, .	1.1	56
151	Spin Drag and Spin-Charge Separation in Cold Fermi Gases. <i>Physical Review Letters</i> , 2007, 98, 266403.	2.9	59
152	SaietAal.Reply:. <i>Physical Review Letters</i> , 2007, 98, .	2.9	7
153	New Collective Mode in the Fractional Quantum Hall Liquid. <i>Physical Review Letters</i> , 2007, 98, 026805.	2.9	20
154	Quantum Theory of Orbital Magnetization and Its Generalization to Interacting Systems. <i>Physical Review Letters</i> , 2007, 99, 197202.	2.9	195
155	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, .	1.1	56
156	Exchange and correlation effects on plasmon dispersions and Coulomb drag in low-density electron bilayers. <i>Physical Review B</i> , 2007, 75, .	1.1	24
157	Theory of the Pseudospin Resonance in Semiconductor Bilayers. <i>Physical Review Letters</i> , 2007, 99, 206802.	2.9	17
158	Degenerate ground states and nonunique potentials: Breakdown and restoration of density functionals. <i>Physical Review A</i> , 2007, 76, .	1.0	15
159	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.	1.3	1
160	Temperature-dependent theory of tunneling in the fractional quantum Hall effect. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 34, 199-202.	1.3	0
161	Spin-Hall Effect in a [110] GaAs Quantum Well. <i>Physical Review Letters</i> , 2006, 97, 266601.	2.9	33
162	Relaxation in Time-Dependent Current-Density-Functional Theory. <i>Physical Review Letters</i> , 2006, 96, 016405.	2.9	44

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163	Analytic expression for the diamagnetic susceptibility of a uniform electron gas. Physical Review B, 2006, 74, .	1.1	10
164	Coulomb corrections to the extrinsic spin-Hall effect of a two-dimensional electron gas. Physical Review B, 2006, 73, .	1.1	38
165	Time-Dependent Density-Functional Theory beyond the Local-Density Approximation. Physical Review Letters, 2006, 97, 036403.	2.9	21
166	Integral charge quasiparticles in a fractional quantum Hall liquid. Physical Review B, 2006, 73, .	1.1	4
167	Linear response theory. , 2005, , 111-156.		1
168	Linear response of independent electrons. , 2005, , 157-187.		1
169	RKKY range function of a one-dimensional noninteracting electron gas. Physical Review B, 2005, 72, .	1.1	16
170	Lifetime of a quasiparticle in an electron liquid. Physical Review B, 2005, 71, .	1.1	33
171	Non-V-representability of currents in time-dependent many-particle systems. Physical Review B, 2005, 71, .	1.1	21
172	Heterostructure unipolar spin transistors. Journal of Applied Physics, 2005, 97, 104508.	1.1	9
173	Temperature Dependence of the Tunneling Amplitude between Quantum Hall Edges. Physical Review Letters, 2005, 94, 086801.	2.9	12
174	Observing the spin Coulomb drag in spin-valve devices. Physical Review B, 2005, 71, .	1.1	17
175	Quasiparticle self-energy and many-body effective mass enhancement in a two-dimensional electron liquid. Physical Review B, 2005, 71, .	1.1	60
176	Dynamical Corrections to the DFT-LDA Electron Conductance in Nanoscale Systems. Physical Review Letters, 2005, 94, 186810.	2.9	160
177	High field and Coulomb interaction effects on spin injection in degenerate semiconductors. Semiconductor Science and Technology, 2004, 19, S383-S385.	1.0	1
178	Effect of electrical bias on spin transport across a magnetic domain wall. Journal of Applied Physics, 2004, 96, 7424-7427.	1.1	8
179	Spin Mass of an Electron Liquid. Physical Review Letters, 2004, 93, 106601.	2.9	7
180	Mapping from current densities to vector potentials in time-dependent current density functional theory. Physical Review B, 2004, 70, .	1.1	99

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181	Spin-resolved correlation kinetic energy of the spin-polarized electron gas. <i>Physical Review B</i> , 2004, 70, .	1.1	4
182	Effect of the Coulomb interaction on spin injection in semiconductor structures. <i>Journal of Magnetism and Magnetic Materials</i> , 2004, 272-276, 1928-1929.	1.0	0
183	Quasi-particle tunneling between fractional quantum Hall edges. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 185-188.	1.3	5
184	Intrinsic Decay of Spin Currents: The Spin Coulomb Drag Effect. <i>Journal of Superconductivity and Novel Magnetism</i> , 2003, 16, 253-256.	0.5	5
185	Coulomb drag, magnetoresistance, and spin-current injection in magnetic multilayers. <i>Solid State Communications</i> , 2003, 127, 829-834.	0.9	6
186	Dynamics of dissipative quantum Hall edges. <i>Physical Review B</i> , 2003, 67, .	1.1	29
187	Solving the Ultranonlocality Problem in Time-Dependent Spin-Density-Functional Theory. <i>Physical Review Letters</i> , 2003, 90, 066402.	2.9	26
188	Dynamical exchange-correlation potentials for the electron liquid in the spin channel. <i>Physical Review B</i> , 2003, 68, .	1.1	12
189	Transport properties of a two-dimensional electron liquid at high magnetic fields. <i>Physical Review B</i> , 2003, 68, .	1.1	13
190	Spin Coulomb drag in the two-dimensional electron liquid. <i>Physical Review B</i> , 2003, 68, .	1.1	55
191	Nonlinear Quasiparticle Tunneling between Fractional Quantum Hall Edges. <i>Physical Review Letters</i> , 2003, 90, 046805.	2.9	58
192	Nonlinear Spin-Polarized Transport through a Ferromagnetic Domain Wall. <i>Physical Review Letters</i> , 2002, 89, 098302.	2.9	32
193	Nonuniqueness and derivative discontinuities in density-functional theories for current-carrying and superconducting systems. <i>Physical Review B</i> , 2002, 65, .	1.1	63
194	Dynamical exchange-correlation potentials for an electron liquid. <i>Physical Review B</i> , 2002, 65, .	1.1	66
195	Spin Dynamics from Time-Dependent Spin-Density-Functional Theory. <i>Physical Review Letters</i> , 2002, 88, 056404.	2.9	55
196	Time-dependent current-density-functional theory for the linear response of weakly disordered systems. <i>Physical Review B</i> , 2002, 65, .	1.1	68
197	Coulomb interaction effects in spin-polarized transport. <i>Physical Review B</i> , 2002, 65, .	1.1	66
198	Spin Coulomb drag and spin diffusion in doped semiconductors. <i>Physica B: Condensed Matter</i> , 2002, 314, 239-243.	1.3	0

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200	Unipolar spin diodes and transistors. Applied Physics Letters, 2001, 78, 1273-1275.	1.5	148
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