Gwendal Feve

List of Publications by Year
in descending order

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69 papers	4,022 citations	136950 32 h-index	114465 63 g-index
70 all docs	70 docs citations	70 times ranked	2431 citing authors

#	Article	IF	Citations
1	Dielectric permittivity, conductivity and breakdown field of hexagonal boron nitride. Materials Research Express, 2022, 9, 065901.	1.6	21
2	Processing Quantum Signals Carried by Electrical Currents. PRX Quantum, 2021, 2, .	9.2	6
3	Microwave surface transport in narrow-bandgap PdSe2 -MOSFETs. 2D Materials, 2021, 8, 035035.	4.4	1
4	Phase-Coherent Dynamics of Quantum Devices with Local Interactions. Entropy, 2020, 22, 847.	2.2	7
5	Dynamical Separation of Bulk and Edge Transport in HgTe-Based 2D Topological Insulators. Physical Review Letters, 2020, 124, 076802.	7.8	18
6	High-Frequency Limits of Graphene Field-Effect Transistors with Velocity Saturation. Applied Sciences (Switzerland), 2020, 10, 446.	2.5	20
7	Fractional statistics in anyon collisions. Science, 2020, 368, 173-177.	12.6	225
8	Characterization of helical Luttinger liquids in microwave stepped-impedance edge resonators. Physical Review Research, 2020, 2, .	3.6	5
9	Quantum tomography of electrical currents. Nature Communications, 2019, 10, 3379.	12.8	35
10	A corner reflector of graphene Dirac fermions as a phonon-scattering sensor. Nature Communications, 2019, 10, 2428.	12.8	7
11	Picosecond detection of electron motion. Nature Nanotechnology, 2019, 14, 1005-1006.	31.5	2
12	RF compressibility of topological surface and interface states in metalâ€“hBNâ€“Bi2Se3 capacitors. JPhys Materials, 2019, 2, 044003.	4.2	2
13	Microwave photons emitted by fractionally charged quasiparticles. Nature Communications, 2019, 10, 1708.	12.8	13
14	Shaping charge excitations in chiral edge states with a time-dependent gate voltage. Physical Review B, 2018, 97, .	3.2	25
15	rf Quantum Capacitance of the Topological Insulator <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msub><mml:mrow><mml:mi>Bi</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:mrow></mml:math> in the Bulk Depleted Regime for Field-Effect Transistors. Physical Review Applied, 2018, 9, .	3.8	10
16	Importance of nonlocal electron correlation in the BaNiS2 semimetal from quantum oscillations studies. Physical Review B, 2018, 97, .	3.2	10
17	Taming electronic decoherence in one-dimensional chiral ballistic quantum conductors. Physical Review B, 2018, 98, .	3.2	24
18	Landau Velocity for Collective Quantum Hall Breakdown in Bilayer Graphene. Physical Review Letters, 2018, 121, 136804.	7.8	6

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19	Ultra-long wavelength Dirac plasmons in graphene capacitors. JPhys Materials, 2018, 1, 01LT02.	4.2	17
20	A graphene Zenerâ€“Klein transistor cooled by a hyperbolic substrate. Nature Nanotechnology, 2018, 13, 47-52.	31.5	64
21	Electron quantum optics as quantum signal processing. Physica Status Solidi (B): Basic Research, 2017, 254, 1600621.	1.5	53
22	Twoâ€particle interferometry in quantum Hall edge channels. Physica Status Solidi (B): Basic Research, 2017, 254, 1600618.	1.5	21
23	Observation of Volkov-Pankratov states in topological HgTe heterojunctions using high-frequency compressibility. Physical Review B, 2017, 96, .	3.2	40
24	Decoherence and relaxation of a single electron in a one-dimensional conductor. Physical Review B, 2016, 94, .	3.2	51
25	Contact gating at GHz frequency in graphene. Scientific Reports, 2016, 6, 21085.	3.3	19
26	Time dependent electronic transport in chiral edge channels. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 76, 12-27.	2.7	6
27	Two-electron coherence and its measurement in electron quantum optics. Physical Review B, 2016, 93, .	3.2	9
28	Anomalous metallic state in quasi-two-dimensional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mtext>BaNiS</mml:mtext><mml:mn>2</mml:mn></mml:msub></mml:math> Physical Review B, 2016, 93, .	3.2	10
29	Reprint of : Time dependent electronic transport in chiral edge channels. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 82, 129-144.	2.7	0
30	Onset of optical-phonon cooling in multilayer graphene revealed by RF noise and black-body radiation thermometries. Journal of Physics Condensed Matter, 2015, 27, 164208.	1.8	10
31	Hong-Ou-Mandel experiment for temporal investigation of single-electron fractionalization. Nature Communications, 2015, 6, 6854.	12.8	101
32	A Klein-tunneling transistor with ballistic graphene. 2D Materials, 2014, 1, 011006.	4.4	48
33	Electron quantum optics in ballistic chiral conductors. Annalen Der Physik, 2014, 526, 1-30.	2.4	162
34	Graphene-based Klein tunneling transistor. , 2014, , .		0
35	Real-Time Decoherence of Landau and Levitov Quasiparticles in Quantum Hall Edge Channels. Physical Review Letters, 2014, 113, 166403.	7.8	76
36	Graphene nanotransistors for RF charge detection. Journal Physics D: Applied Physics, 2014, 47, 094004.	2.8	6

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37	Supercollision cooling in undoped graphene. Nature Physics, 2013, 9, 109-112.	16.7	179
38	Coherence and Indistinguishability of Single Electrons Emitted by Independent Sources. Science, 2013, 339, 1054-1057.	12.6	303
39	Separation of neutral and charge modes in one-dimensional chiral edge channels. Nature Communications, 2013, 4, 1839.	12.8	106
40	Wigner function approach to single electron coherence in quantum Hall edge channels. Physical Review B, 2013, 88, .	3.2	67
41	Electron Quantum Optics: Partitioning Electrons One by One. Physical Review Letters, 2012, 108, 196803.	7.8	155
42	A coherentRCcircuit. Reports on Progress in Physics, 2012, 75, 126504.	20.1	43
43	Current noise spectrum of a single-particle emitter: Theory and experiment. Physical Review B, 2012, 85, .	3.2	96
44	Hot Electron Cooling by Acoustic Phonons in Graphene. Physical Review Letters, 2012, 109, 056805.	7.8	120
45	Coupling a Quantum Dot, Fermionic Leads, and a Microwave Cavity on a Chip. Physical Review Letters, 2011, 107, 256804.	7.8	171
46	Single-electron quantum tomography in quantum Hall edge channels. New Journal of Physics, 2011, 13, 093007.	2.9	96
47	Transport scattering time probed through rf admittance of a graphene capacitor. Physical Review B, 2011, 83, .	3.2	33
48	A high sensitivity ultralow temperature RF conductance and noise measurement setup. Review of Scientific Instruments, 2011, 82, 013904.	1.3	15
49	ELECTRON QUANTUM OPTICS IN QUANTUM HALL EDGE CHANNELS. Modern Physics Letters B, 2011, 25, 1053-1073.	1.9	88
50	Noise of a single electron emitter: Experiment. , 2011, , .		0
51	Conserved spin and orbital phase along carbon nanotubes connected with multiple ferromagnetic contacts. Physical Review B, 2010, 81, .	3.2	29
52	Thermal shot noise in top-gated single carbon nanotube field effect transistors. Applied Physics Letters, 2010, 96, .	3.3	9
53	Plasmon scattering approach to energy exchange and high-frequency noise in<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>Î½</mml:mi><mml:mo>=</mml:mo><mml:mn>2</mml:mn></mml:mrow></mml:math>quantu Hall edge channels. Physical Review B, 2010, 81, .	3.2	70
54	Current correlations of an on-demand single-electron emitter. Physical Review B, 2010, 82, .	3.2	115

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55	Decoherence and relaxation of single-electron excitations in quantum Hall edge channels. Physical Review B, 2009, 80, .	3.2	51
56	Noisy Kondo impurities. Nature Physics, 2009, 5, 208-212.	16.7	91
57	Subnanosecond Single Electron Source inÂtheÂTime-Domain. Journal of Low Temperature Physics, 2008, 153, 339-349.	1.4	17
58	Realization of a time-controlled subnanosecond single electron source for ballistic qubits. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 954-960.	2.7	7
59	Single Carbon Nanotube Transistor at GHz Frequency. Nano Letters, 2008, 8, 525-528.	9.1	68
60	Quantum detection of electronic flying qubits in the integer quantum Hall regime. Physical Review B, 2008, 77, .	3.2	33
61	An On-Demand Coherent Single-Electron Source. Science, 2007, 316, 1169-1172.	12.6	460
62	Relaxation Time of a Chiral QuantumRâ^'LCircuit. Physical Review Letters, 2007, 98, 166806.	7.8	65
63	Violation of Kirchhoff's Laws for a Coherent RC Circuit. Science, 2006, 313, 499-502.	12.6	305
64	A quantum mesoscopic RC circuit realized in a 2D electron gas. Physica E: Low-Dimensional Systems and Nanostructures, 2006, 34, 576-579.	2.7	4
65	Hanbury Brown and Twiss Noise Correlations to Probe the Statistics of GHz Photons Emitted by Quantum Conductors. AIP Conference Proceedings, 2005, , .	0.4	0
66	Hanbury Brownâ€"Twiss Correlations to Probe the Population Statistics of GHz Photons Emitted by Conductors. Physical Review Letters, 2004, 93, 056801.	7.8	51
67	Title is missing!. Journal of Superconductivity and Novel Magnetism, 2003, 16, 719-733.	0.5	1
68	The Generation and Detection of Single and Entangled Electrons in Mesoscopic 2DEG Systems. , 2003, , 275-296.		0
69	Rashba effect within the coherent scattering formalism. Physical Review B, 2002, 66, .	3.2	42