

D Christian Glattli

List of Publications by Year in descending order

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111
papers

6,659
citations

76326

40
h-index

60623

81
g-index

115
all docs

115
docs citations

115
times ranked

3699
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of the $\frac{1}{3}$ Fractionally Charged Laughlin Quasiparticle. <i>Physical Review Letters</i> , 1997, 79, 2526-2529.	7.8	693
2	An On-Demand Coherent Single-Electron Source. <i>Science</i> , 2007, 316, 1169-1172.	12.6	460
3	Observation of a Magnetically Induced Wigner Solid. <i>Physical Review Letters</i> , 1988, 60, 2765-2768.	7.8	426
4	Violation of Kirchhoff's Laws for a Coherent RC Circuit. <i>Science</i> , 2006, 313, 499-502.	12.6	305
5	Minimal-excitation states for electron quantum optics using levitons. <i>Nature</i> , 2013, 502, 659-663.	27.8	281
6	Experimental Test of the Quantum Shot Noise Reduction Theory. <i>Physical Review Letters</i> , 1996, 76, 2778-2781.	7.8	277
7	Dynamical Hall Effect in a Two-Dimensional Classical Plasma. <i>Physical Review Letters</i> , 1985, 54, 1710-1713.	7.8	253
8	Conduction threshold and pinning frequency of magnetically induced Wigner solid. <i>Physical Review Letters</i> , 1991, 66, 3285-3288.	7.8	238
9	Carbon Nanotube Based Bearing for Rotational Motions. <i>Nano Letters</i> , 2004, 4, 709-712.	9.1	213
10	Determination of the Intershell Conductance in Multiwalled Carbon Nanotubes. <i>Physical Review Letters</i> , 2004, 93, 176806.	7.8	189
11	Coherent control of single electrons: a review of current progress. <i>Reports on Progress in Physics</i> , 2018, 81, 056503.	20.1	180
12	Electron Quantum Optics: Partitioning Electrons One by One. <i>Physical Review Letters</i> , 2012, 108, 196803.	7.8	155
13	Quantum tomography of an electron. <i>Nature</i> , 2014, 514, 603-607.	27.8	150
14	Finite bias visibility of the electronic Mach-Zehnder interferometer. <i>Physical Review B</i> , 2007, 76, .	3.2	138
15	Evidence for Luttinger-Liquid Behavior in Crossed Metallic Single-Wall Nanotubes. <i>Physical Review Letters</i> , 2004, 92, 216804.	7.8	133
16	Transport and Elastic Scattering Times as Probes of the Nature of Impurity Scattering in Single-Layer and Bilayer Graphene. <i>Physical Review Letters</i> , 2010, 104, 126801.	7.8	127
17	Current correlations of an on-demand single-electron emitter. <i>Physical Review B</i> , 2010, 82, .	3.2	115
18	Four-Point Resistance of Individual Single-Wall Carbon Nanotubes. <i>Physical Review Letters</i> , 2005, 95, 196802.	7.8	108

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19	Integer and fractional charge Lorentzian voltage pulses analyzed in the framework of photon-assisted shot noise. <i>Physical Review B</i> , 2013, 88, .	3.2	107
20	Harvesting dissipated energy with a mesoscopic ratchet. <i>Nature Communications</i> , 2015, 6, 6738.	12.8	106
21	Experimental Test of the High-Frequency Quantum Shot Noise Theory in a Quantum Point Contact. <i>Physical Review Letters</i> , 2007, 99, 236803.	7.8	105
22	Current noise spectrum of a single-particle emitter: Theory and experiment. <i>Physical Review B</i> , 2012, 85, .	3.2	96
23	Noisy Kondo impurities. <i>Nature Physics</i> , 2009, 5, 208-212.	16.7	91
24	Geometrical Dependence of High-Bias Current in Multiwalled Carbon Nanotubes. <i>Physical Review Letters</i> , 2004, 92, 026804.	7.8	88
25	Quantum Partition Noise of Photon-Created Electron-Hole Pairs. <i>Physical Review Letters</i> , 2003, 90, 176803.	7.8	82
26	Quantum limitation on Coulomb blockade observed in a 2D electron system. <i>Physical Review Letters</i> , 1993, 70, 69-72.	7.8	77
27	Fano Factor Reduction on the 0.7 Conductance Structure of a Ballistic One-Dimensional Wire. <i>Physical Review Letters</i> , 2004, 93, 116602.	7.8	75
28	Thermodynamic measurement on the melting of a two-dimensional electron solid. <i>Physical Review Letters</i> , 1988, 60, 420-423.	7.8	72
29	Single Carbon Nanotube Transistor at GHz Frequency. <i>Nano Letters</i> , 2008, 8, 525-528.	9.1	68
30	Shot Noise in Fabry-Perot Interferometers Based on Carbon Nanotubes. <i>Physical Review Letters</i> , 2007, 99, 156804.	7.8	66
31	Relaxation Time of a Chiral Quantum R [∞] L Circuit. <i>Physical Review Letters</i> , 2007, 98, 166806.	7.8	65
32	Fractionalization of minimal excitations in integer quantum Hall edge channels. <i>Physical Review B</i> , 2013, 88, .	3.2	60
33	Levitons for electron quantum optics. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600650.	1.5	58
34	A noise detection scheme with 10 mK noise temperature resolution for semiconductor single electron tunneling devices. <i>Journal of Applied Physics</i> , 1997, 81, 7350-7356.	2.5	56
35	Experiments on ordering in classical and quantum 2D electron systems. <i>Surface Science</i> , 1990, 229, 344-351.	1.9	53
36	Hanbury Brown [∞] Twiss Correlations to Probe the Population Statistics of GHz Photons Emitted by Conductors. <i>Physical Review Letters</i> , 2004, 93, 056801.	7.8	51

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37	Co-tunneling of the charge through a 2-D electron island. European Physical Journal B, 1991, 85, 375-380.	1.5	48
38	Resonant Edge Magnetoplasmons and Their Decay in Graphene. Physical Review Letters, 2014, 113, 266601.	7.8	48
39	Carrier Drift Velocity and Edge Magnetoplasmons in Graphene. Physical Review Letters, 2013, 110, 016801.	7.8	44
40	A Josephson relation for fractionally charged anyons. Science, 2019, 363, 846-849.	12.6	40
41	Low frequency collective excitations in the quantum-hall system. Surface Science, 1988, 196, 501-506.	1.9	39
42	Experimental Determination of the Statistics of Photons Emitted by a Tunnel Junction. Physical Review Letters, 2010, 104, 206802.	7.8	38
43	Quantum shot noise. Superlattices and Microstructures, 1998, 23, 901-915.	3.1	37
44	Shot noise generated by graphene p-n junctions in the quantum Hall effect regime. Nature Communications, 2015, 6, 8068.	12.8	34
45	Cotunneling and one-dimensional localization in individual disordered single-wall carbon nanotubes: Temperature dependence of the intrinsic resistance. Physical Review B, 2006, 74, .	3.2	29
46	Conserved spin and orbital phase along carbon nanotubes connected with multiple ferromagnetic contacts. Physical Review B, 2010, 81, .	3.2	29
47	Hanbury-Brown Twiss noise correlation with time controlled quasi-particles in ballistic quantum conductors. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 76, 216-222.	2.7	29
48	Quantum Hall Valley Splitters and a Tunable Mach-Zehnder Interferometer in Graphene. Physical Review Letters, 2021, 126, 146803.	7.8	28
49	Unveiling quantum Hall transport by Efros-Shklovskii to Mott variable-range hopping transition in graphene. Physical Review B, 2012, 86, .	3.2	25
50	Quantum Hall effect in exfoliated graphene affected by charged impurities: Metrological measurements. Physical Review B, 2012, 85, .	3.2	22
51	Shot noise and the Luttinger liquid-like properties of the FQHE. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 6, 22-28.	2.7	21
52	Andreiet al.Reply. Physical Review Letters, 1989, 62, 973-973.	7.8	20
53	Photon-Assisted Shot Noise in Graphene in the Terahertz Range. Physical Review Letters, 2016, 116, 227401.	7.8	20
54	Pseudorandom binary injection of levitons for electron quantum optics. Physical Review B, 2018, 97, .	3.2	20

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55	Subnanosecond Single Electron Source in the Time-Domain. Journal of Low Temperature Physics, 2008, 153, 339-349.	1.4	17
56	Quantum shot noise of conductors and general noise measurement methods. European Physical Journal: Special Topics, 2009, 172, 163-179.	2.6	15
57	A high sensitivity ultralow temperature RF conductance and noise measurement setup. Review of Scientific Instruments, 2011, 82, 013904.	1.3	15
58	Ab initio parameterization of a charge optimized many-body forcefield for Si-SiO ₂ : Validation and thermal transport in nanostructures. Journal of Chemical Physics, 2016, 144, 104705.	3.0	14
59	Effect of interactions on the noise of chiral Luttinger liquid systems. Physical Review B, 2004, 70, .	3.2	13
60	Edge magnetoplasmons in graphene. Journal Physics D: Applied Physics, 2014, 47, 094010.	2.8	12
61	Thermal Transport in Supported Graphene: Substrate Effects on Collective Excitations. Physical Review Applied, 2017, 7, .	3.8	10
62	Performance vs. Spectral Properties for Single-Sideband Continuous Phase Modulation. IEEE Transactions on Communications, 2021, 69, 4402-4416.	7.8	10
63	1D perimeter waves in a classical 2D electron system. Surface Science, 1986, 170, 70-74.	1.9	9
64	Wigner solid in random field: rigidity, pinning frequency and conduction threshold. Surface Science, 1992, 263, 23-29.	1.9	9
65	Coulomb blockade and off-resonance tunneling in small electronic systems. Physica B: Condensed Matter, 1993, 189, 88-98.	2.7	9
66	Beyond the linearity of current-voltage characteristics in multiwalled carbon nanotubes. Semiconductor Science and Technology, 2006, 21, S33-S37.	2.0	9
67	Quantum Hall effect in epitaxial graphene with permanent magnets. Scientific Reports, 2016, 6, 38393.	3.3	9
68	Power Spectrum Density of Single Side Band CPM Using Lorentzian Frequency Pulses. IEEE Wireless Communications Letters, 2017, 6, 786-789.	5.0	8
69	Excitonic nature of magnons in a quantum Hall ferromagnet. Nature Physics, 2021, 17, 1369-1374.	16.7	8
70	Enhanced shot noise in long quasi-diffusive S-N-S junctions. Physica C: Superconductivity and Its Applications, 2001, 352, 73-76.	1.2	7
71	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
72	From quantum physics to digital communication: Single sideband continuous phase modulation. Comptes Rendus Physique, 2018, 19, 54-63.	0.9	7

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73	Specific and latent heat of the 2D electron solid. <i>Surface Science</i> , 1988, 196, 17-23.	1.9	6
74	Optical spectroscopy of GaAs in the extreme quantum limit: integer and fractional quantum Hall effect, and onset of the electron solid. <i>Physica B: Condensed Matter</i> , 1991, 169, 336-354.	2.7	6
75	Coulomb blockade of tunneling in a 2D electron gas. <i>Surface Science</i> , 1992, 263, 419-423.	1.9	6
76	Super Poissonian noise in the FQHE regime. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002, 12, 88-92.	2.7	6
77	Detecting noise with shot noise using on-chip photon detector. <i>Nature Communications</i> , 2015, 6, 6130.	12.8	5
78	Williamset al. reply. <i>Physical Review Letters</i> , 1992, 68, 2105-2105.	7.8	4
79	A quantum mesoscopic RC circuit realized in a 2D electron gas. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006, 34, 576-579.	2.7	4
80	Reprint of : Hanbury-Brown Twiss noise correlation with time controlled quasi-particles in ballistic quantum conductors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 82, 99-105.	2.7	4
81	Strongly Correlated Charge Transport in Silicon Metal-Oxide-Semiconductor Field-Effect Transistor Quantum Dots. <i>Physical Review Letters</i> , 2018, 121, 027701.	7.8	4
82	Tunneling Experiments in the Fractional Quantum Hall Effect Regime. , 2005, , 163-197.		4
83	Influence of channel mixing in fermionic Hong-Ou-Mandel experiments. <i>Physical Review B</i> , 2022, 105, .	3.2	4
84	Single electrons in silicon drops. <i>Nature</i> , 1998, 393, 516-517.	27.8	3
85	Electron crystallization in two dimensions. <i>Physica B: Condensed Matter</i> , 1991, 169, 328-335.	2.7	2
86	Experiments on Two-Dimensional Wigner Crystals. , 1993, , 499-537.		2
87	High visibility in an electronic Mach-Zehnder interferometer with random phase fluctuations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1048-1050.	2.7	2
88	Hall resistance plateaus in high quality graphene samples at large currents: Toward quantization tests. , 2008, , .		2
89	Quantum Hall effect quantization tests in exfoliated bilayer and monolayer graphene. , 2010, , .		2
90	Experiments on the Nature of the Extreme Quantum Regime of a 2-D Electron System. <i>Springer Series in Solid-state Sciences</i> , 1990, , 192-206.	0.3	2

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91	Quantum Hall Effect: Macroscopic and Mesoscopic Electron Transport. Lecture Notes in Physics, 2002, , 1-46.	0.7	2
92	Course 11 Introduction to quantum conductors. Les Houches Summer School Proceedings, 2004, 79, 401-441.	0.2	1
93	Electron Solid Formation at a Modulation Doped Heterojunction in a High Magnetic Field. Springer Series in Solid-state Sciences, 1989, , 157-161.	0.3	1
94	Preamble Design for Data-Aided Synchronization of Single Side Band Continuous Phase Modulation. , 2020, , .		1
95	Energy relaxation between an electron crystal and liquid helium. Physics Letters, Section A: General, Atomic and Solid State Physics, 1991, 159, 277-278.	2.1	0
96	Quantum limitation in single electron effect transistor. Superlattices and Microstructures, 1992, 12, 367-369.	3.1	0
97	Measurement of reduced shot noise in a quantum point contact. Physica B: Condensed Matter, 1996, 227, 161-163.	2.7	0
98	Electronâ€“hole quantum partition noise in a quantum point contact. Physica E: Low-Dimensional Systems and Nanostructures, 2004, 22, 280-283.	2.7	0
99	High Frequency Quantum Shot Noise: Can Quiet Electrons Generate Sub-Poissonian Photons?. AIP Conference Proceedings, 2005, , .	0.4	0
100	Fano factor reduction on the 0.7 structure. AIP Conference Proceedings, 2005, , .	0.4	0
101	Hanbury Brown and Twiss Noise Correlations to Probe the Statistics of GHz Photons Emitted by Quantum Conductors. AIP Conference Proceedings, 2005, , .	0.4	0
102	Intershell Transport in Multiwall Carbon Nanotubes. AIP Conference Proceedings, 2005, , .	0.4	0
103	Four-terminal measurements of SWNTs using MWNTs as voltage electrodes. Physica Status Solidi (B): Basic Research, 2006, 243, 3399-3402.	1.5	0
104	Observation of the shot noise singularity in a quantum point contact. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1697-1699.	2.7	0
105	High frequency shot noise of phase coherent conductors. , 2009, , .		0
106	Fabrication and electrical characterization of exfoliated graphene based devices. , 2010, , .		0
107	Noise of a single electron emitter: Experiment. , 2011, , .		0
108	Photo-Assisted Electron-Hole Partition Noise in Quantum Point Contacts. , 2003, , 135-148.		0

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109	Thermodynamic Measurement on the Melting of a Two-Dimensional Electron Solid. Physics and Chemistry of Materials With Low-dimensional Structures, 1997, , 53-60.	1.0	0
110	Reduction of shot-noise in quantum conductors. European Physical Journal Special Topics, 1999, 09, Pr2-23.	0.2	0
111	Quantum Partition Noise and The Detection of Fractionally Charged Laughlin Quasiparticles. , 1999, , 551-573.		0