

# 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	Influence of channel mixing in fermionic Hong-Ou-Mandel experiments. <i>Physical Review B</i> , 2022, 105, .	3.2	4
2	Quantum Hall Valley Splitters and a Tunable Mach-Zehnder Interferometer in Graphene. <i>Physical Review Letters</i> , 2021, 126, 146803.	7.8	28
3	Performance vs. Spectral Properties for Single-Sideband Continuous Phase Modulation. <i>IEEE Transactions on Communications</i> , 2021, 69, 4402-4416.	7.8	10
4	Excitonic nature of magnons in a quantum Hall ferromagnet. <i>Nature Physics</i> , 2021, 17, 1369-1374.	16.7	8
5	Preamble Design for Data-Aided Synchronization of Single Side Band Continuous Phase Modulation. , 2020, , .		1
6	A Josephson relation for fractionally charged anyons. <i>Science</i> , 2019, 363, 846-849.	12.6	40
7	Pseudorandom binary injection of levitons for electron quantum optics. <i>Physical Review B</i> , 2018, 97, .	3.2	20
8	Coherent control of single electrons: a review of current progress. <i>Reports on Progress in Physics</i> , 2018, 81, 056503.	20.1	180
9	From quantum physics to digital communication: Single sideband continuous phase modulation. <i>Comptes Rendus Physique</i> , 2018, 19, 54-63.	0.9	7
10	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
11	Levitons for electron quantum optics. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600650.	1.5	58
12	Thermal Transport in Supported Graphene: Substrate Effects on Collective Excitations. <i>Physical Review Applied</i> , 2017, 7, .	3.8	10
13	Power Spectrum Density of Single Side Band CPM Using Lorentzian Frequency Pulses. <i>IEEE Wireless Communications Letters</i> , 2017, 6, 786-789.	5.0	8
14	Quantum Hall effect in epitaxial graphene with permanent magnets. <i>Scientific Reports</i> , 2016, 6, 38393.	3.3	9
15	<i>Ab initio</i> parameterization of a charge optimized many-body forcefield for SiO <sub>2</sub> : Validation and thermal transport in nanostructures. <i>Journal of Chemical Physics</i> , 2016, 144, 104705.	3.0	14
16	Photon-Assisted Shot Noise in Graphene in the Terahertz Range. <i>Physical Review Letters</i> , 2016, 116, 227401.	7.8	20
17	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
18	Hanbury-Brown Twiss noise correlation with time controlled quasi-particles in ballistic quantum conductors. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 76, 216-222.	2.7	29

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19	Detecting noise with shot noise using on-chip photon detector. Nature Communications, 2015, 6, 6130.	12.8	5
20	Harvesting dissipated energy with a mesoscopic ratchet. Nature Communications, 2015, 6, 6738.	12.8	106
21	Shot noise generated by graphene p-n junctions in the quantum Hall effect regime. Nature Communications, 2015, 6, 8068.	12.8	34
22	Edge magnetoplasmons in graphene. Journal Physics D: Applied Physics, 2014, 47, 094010.	2.8	12
23	Resonant Edge Magnetoplasmons and Their Decay in Graphene. Physical Review Letters, 2014, 113, 266601.	7.8	48
24	Quantum tomography of an electron. Nature, 2014, 514, 603-607.	27.8	150
25	Minimal-excitation states for electron quantum optics using levitons. Nature, 2013, 502, 659-663.	27.8	281
26	Carrier Drift Velocity and Edge Magnetoplasmons in Graphene. Physical Review Letters, 2013, 110, 016801.	7.8	44
27	Integer and fractional charge Lorentzian voltage pulses analyzed in the framework of photon-assisted shot noise. Physical Review B, 2013, 88, .	3.2	107
28	Fractionalization of minimal excitations in integer quantum Hall edge channels. Physical Review B, 2013, 88, .	3.2	60
29	Electron Quantum Optics: Partitioning Electrons One by One. Physical Review Letters, 2012, 108, 196803.	7.8	155
30	Unveiling quantum Hall transport by Efros-Shklovskii to Mott variable-range hopping transition in graphene. Physical Review B, 2012, 86, .	3.2	25
31	Current noise spectrum of a single-particle emitter: Theory and experiment. Physical Review B, 2012, 85, .	3.2	96
32	Quantum Hall effect in exfoliated graphene affected by charged impurities: Metrological measurements. Physical Review B, 2012, 85, .	3.2	22
33	A high sensitivity ultralow temperature RF conductance and noise measurement setup. Review of Scientific Instruments, 2011, 82, 013904.	1.3	15
34	Noise of a single electron emitter: Experiment. , 2011, , .		0
35	Quantum Hall effect quantization tests in exfoliated bilayer and monolayer graphene. , 2010, , .		2
36	Conserved spin and orbital phase along carbon nanotubes connected with multiple ferromagnetic contacts. Physical Review B, 2010, 81, .	3.2	29

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37	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
38	Experimental Determination of the Statistics of Photons Emitted by a Tunnel Junction. <i>Physical Review Letters</i> , 2010, 104, 206802.	7.8	38
39	Fabrication and electrical characterization of exfoliated graphene based devices. , 2010, , .		0
40	Current correlations of an on-demand single-electron emitter. <i>Physical Review B</i> , 2010, 82, .	3.2	115
41	High frequency shot noise of phase coherent conductors. , 2009, , .		0
42	Noisy Kondo impurities. <i>Nature Physics</i> , 2009, 5, 208-212.	16.7	91
43	Quantum shot noise of conductors and general noise measurement methods. <i>European Physical Journal: Special Topics</i> , 2009, 172, 163-179.	2.6	15
44	Subnanosecond Single Electron Source in the Time-Domain. <i>Journal of Low Temperature Physics</i> , 2008, 153, 339-349.	1.4	17
45	Realization of a time-controlled subnanosecond single electron source for ballistic qubits. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 954-960.	2.7	7
46	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
47	Observation of the shot noise singularity in a quantum point contact. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008, 40, 1697-1699.	2.7	0
48	Single Carbon Nanotube Transistor at GHz Frequency. <i>Nano Letters</i> , 2008, 8, 525-528.	9.1	68
49	Hall resistance plateaus in high quality graphene samples at large currents: Toward quantization tests. , 2008, , .		2
50	Shot Noise in Fabry-Perot Interferometers Based on Carbon Nanotubes. <i>Physical Review Letters</i> , 2007, 99, 156804.	7.8	66
51	An On-Demand Coherent Single-Electron Source. <i>Science</i> , 2007, 316, 1169-1172.	12.6	460
52	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
53	Relaxation Time of a Chiral Quantum Circuit. <i>Physical Review Letters</i> , 2007, 98, 166806.	7.8	65
54	Finite bias visibility of the electronic Mach-Zehnder interferometer. <i>Physical Review B</i> , 2007, 76, .	3.2	138

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55	Violation of Kirchhoff's Laws for a Coherent RC Circuit. <i>Science</i> , 2006, 313, 499-502.	12.6	305
56	Beyond the linearity of current-voltage characteristics in multiwalled carbon nanotubes. <i>Semiconductor Science and Technology</i> , 2006, 21, S33-S37.	2.0	9
57	Four-terminal measurements of SWNTs using MWNTs as voltage electrodes. <i>Physica Status Solidi (B): Basic Research</i> , 2006, 243, 3399-3402.	1.5	0
58	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
59	Cotunneling and one-dimensional localization in individual disordered single-wall carbon nanotubes: Temperature dependence of the intrinsic resistance. <i>Physical Review B</i> , 2006, 74, .	3.2	29
60	High Frequency Quantum Shot Noise: Can Quiet Electrons Generate Sub-Poissonian Photons?. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
61	Fano factor reduction on the 0.7 structure. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
62	Hanbury Brown and Twiss Noise Correlations to Probe the Statistics of GHz Photons Emitted by Quantum Conductors. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
63	Intershell Transport in Multiwall Carbon Nanotubes. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	0
64	Four-Point Resistance of Individual Single-Wall Carbon Nanotubes. <i>Physical Review Letters</i> , 2005, 95, 196802.	7.8	108
65	Tunneling Experiments in the Fractional Quantum Hall Effect Regime. , 2005, , 163-197.		4
66	Course 11 Introduction to quantum conductors. <i>Les Houches Summer School Proceedings</i> , 2004, 79, 401-441.	0.2	1
67	Effect of interactions on the noise of chiral Luttinger liquid systems. <i>Physical Review B</i> , 2004, 70, .	3.2	13
68	Evidence for Luttinger-Liquid Behavior in Crossed Metallic Single-Wall Nanotubes. <i>Physical Review Letters</i> , 2004, 92, 216804.	7.8	133
69	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
70	Geometrical Dependence of High-Bias Current in Multiwalled Carbon Nanotubes. <i>Physical Review Letters</i> , 2004, 92, 026804.	7.8	88
71	Determination of the Intershell Conductance in Multiwalled Carbon Nanotubes. <i>Physical Review Letters</i> , 2004, 93, 176806.	7.8	189
72	Electron-hole quantum partition noise in a quantum point contact. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004, 22, 280-283.	2.7	0

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73	Fano Factor Reduction on the 0.7 Conductance Structure of a Ballistic One-Dimensional Wire. Physical Review Letters, 2004, 93, 116602.	7.8	75
74	Carbon Nanotube Based Bearing for Rotational Motions. Nano Letters, 2004, 4, 709-712.	9.1	213
75	Quantum Partition Noise of Photon-Created Electron-Hole Pairs. Physical Review Letters, 2003, 90, 176803.	7.8	82
76	Photo-Assisted Electron-Hole Partition Noise in Quantum Point Contacts. , 2003, , 135-148.		0
77	Super Poissonian noise in the FQHE regime. Physica E: Low-Dimensional Systems and Nanostructures, 2002, 12, 88-92.	2.7	6
78	Quantum Hall Effect: Macroscopic and Mesoscopic Electron Transport. Lecture Notes in Physics, 2002, , 1-46.	0.7	2
79	Enhanced shot noise in long quasi-diffusive Sâ€“Nâ€“S junctions. Physica C: Superconductivity and Its Applications, 2001, 352, 73-76.	1.2	7
80	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
81	Reduction of shot-noise in quantum conductors. European Physical Journal Special Topics, 1999, 09, Pr2-23.	0.2	0
82	Quantum Partition Noise and The Detection of Fractionally Charged Laughlin Quasiparticles. , 1999, , 551-573.		0
83	Single electrons in silicon drops. Nature, 1998, 393, 516-517.	27.8	3
84	Quantum shot noise. Superlattices and Microstructures, 1998, 23, 901-915.	3.1	37
85	A noise detection scheme with 10 mK noise temperature resolution for semiconductor single electron tunneling devices. Journal of Applied Physics, 1997, 81, 7350-7356.	2.5	56
86	Observation of the $\frac{e}{3}$ Fractionally Charged Laughlin Quasiparticle. Physical Review Letters, 1997, 79, 2526-2529.	7.8	693
87	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
88	Experimental Test of the Quantum Shot Noise Reduction Theory. Physical Review Letters, 1996, 76, 2778-2781.	7.8	277
89	Measurement of reduced shot noise in a quantum point contact. Physica B: Condensed Matter, 1996, 227, 161-163.	2.7	0
90	Coulomb blockade and off-resonance tunneling in small electronic systems. Physica B: Condensed Matter, 1993, 189, 88-98.	2.7	9

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91	Experiments on Two-Dimensional Wigner Crystals. , 1993, , 499-537.		2
92	Quantum limitation on Coulomb blockade observed in a 2D electron system. Physical Review Letters, 1993, 70, 69-72.	7.8	77
93	Williamset al. reply. Physical Review Letters, 1992, 68, 2105-2105.	7.8	4
94	Wigner solid in random field: rigidity, pinning frequency and conduction threshold. Surface Science, 1992, 263, 23-29.	1.9	9
95	Coulomb blockade of tunneling in a 2D electron gas. Surface Science, 1992, 263, 419-423.	1.9	6
96	Quantum limitation in single electron effect transistor. Superlattices and Microstructures, 1992, 12, 367-369.	3.1	0
97	Electron crystallization in two dimensions. Physica B: Condensed Matter, 1991, 169, 328-335.	2.7	2
98	Optical spectroscopy of GaAs in the extreme quantum limit: integer and fractional quantum Hall effect, and onset of the electron solid. Physica B: Condensed Matter, 1991, 169, 336-354.	2.7	6
99	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
100	Co-tunneling of the charge through a 2-D electron island. European Physical Journal B, 1991, 85, 375-380.	1.5	48
101	Conduction threshold and pinning frequency of magnetically induced Wigner solid. Physical Review Letters, 1991, 66, 3285-3288.	7.8	238
102	Experiments on ordering in classical and quantum 2D electron systems. Surface Science, 1990, 229, 344-351.	1.9	53
103	Experiments on the Nature of the Extreme Quantum Regime of a 2-D Electron System. Springer Series in Solid-state Sciences, 1990, , 192-206.	0.3	2
104	Andreiet al.Reply. Physical Review Letters, 1989, 62, 973-973.	7.8	20
105	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
106	Thermodynamic measurement on the melting of a two-dimensional electron solid. Physical Review Letters, 1988, 60, 420-423.	7.8	72
107	Specific and latent heat of the 2D electron solid. Surface Science, 1988, 196, 17-23.	1.9	6
108	Low frequency collective excitations in the quantum-hall system. Surface Science, 1988, 196, 501-506.	1.9	39

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109	Observation of a Magnetically Induced Wigner Solid. <i>Physical Review Letters</i> , 1988, 60, 2765-2768.	7.8	426
110	1D perimeter waves in a classical 2D electron system. <i>Surface Science</i> , 1986, 170, 70-74.	1.9	9
111	Dynamical Hall Effect in a Two-Dimensional Classical Plasma. <i>Physical Review Letters</i> , 1985, 54, 1710-1713.	7.8	253