

Preden Roulleau

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

1,984
citations

331670

21
h-index

377865

34
g-index

36
all docs

36
docs citations

36
times ranked

1576
citing authors

#	ARTICLE	IF	CITATIONS
1	Minimal-excitation states for electron quantum optics using levitons. <i>Nature</i> , 2013, 502, 659-663.	27.8	281
2	Direct Measurement of the Coherence Length of Edge States in the Integer Quantum Hall Regime. <i>Physical Review Letters</i> , 2008, 100, 126802.	7.8	207
3	Coherent control of single electrons: a review of current progress. <i>Reports on Progress in Physics</i> , 2018, 81, 056503.	20.1	180
4	Quantum tomography of an electron. <i>Nature</i> , 2014, 514, 603-607.	27.8	150
5	Finite bias visibility of the electronic Mach-Zehnder interferometer. <i>Physical Review B</i> , 2007, 76, .	3.2	138
6	Quantum capacitance and density of states of graphene. <i>Applied Physics Letters</i> , 2010, 96, .	3.3	131
7	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
8	Harvesting dissipated energy with a mesoscopic ratchet. <i>Nature Communications</i> , 2015, 6, 6738.	12.8	106
9	Suppression of weak antilocalization in InAs nanowires. <i>Physical Review B</i> , 2010, 81, .	3.2	70
10	Observation of excited states in a graphene double quantum dot. <i>Europhysics Letters</i> , 2010, 89, 67005.	2.0	66
11	Noise Dephasing in Edge States of the Integer Quantum Hall Regime. <i>Physical Review Letters</i> , 2008, 101, 186803.	7.8	61
12	Fractionalization of minimal excitations in integer quantum Hall edge channels. <i>Physical Review B</i> , 2013, 88, .	3.2	60
13	Tuning Decoherence with a Voltage Probe. <i>Physical Review Letters</i> , 2009, 102, 236802.	7.8	59
14	Resonant Edge Magnetoplasmons and Their Decay in Graphene. <i>Physical Review Letters</i> , 2014, 113, 266601.	7.8	48
15	Coherent electron-phonon coupling in tailored quantum systems. <i>Nature Communications</i> , 2011, 2, 239.	12.8	41
16	A Josephson relation for fractionally charged anyons. <i>Science</i> , 2019, 363, 846-849.	12.6	40
17	Shot noise generated by graphene p-n junctions in the quantum Hall effect regime. <i>Nature Communications</i> , 2015, 6, 8068.	12.8	34
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

#	ARTICLE	IF	CITATIONS
19	Quantum Hall Valley Splitters and a Tunable Mach-Zehnder Interferometer in Graphene. Physical Review Letters, 2021, 126, 146803.	7.8	28
20	Robust quantum coherence above the Fermi sea. Physical Review B, 2016, 93, .	3.2	24
21	Relaxation and revival of quasiparticles injected in an interacting quantum Hall liquid. Nature Communications, 2020, 11, 2426.	12.8	21
22	Photon-Assisted Shot Noise in Graphene in the Terahertz Range. Physical Review Letters, 2016, 116, 227401.	7.8	20
23	Pseudorandom binary injection of levitons for electron quantum optics. Physical Review B, 2018, 97, .	3.2	20
24	Quantum Hall effect in epitaxial graphene with permanent magnets. Scientific Reports, 2016, 6, 38393.	3.3	9
25	Power Spectrum Density of Single Side Band CPM Using Lorentzian Frequency Pulses. IEEE Wireless Communications Letters, 2017, 6, 786-789.	5.0	8
26	Excitonic nature of magnons in a quantum Hall ferromagnet. Nature Physics, 2021, 17, 1369-1374.	16.7	8
27	From quantum physics to digital communication: Single sideband continuous phase modulation. Comptes Rendus Physique, 2018, 19, 54-63.	0.9	7
28	Graphene $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{n} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\text{a}} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \text{ junctions in the quantum Hall regime: Numerical study of incoherent scattering effects. Physical Review B, 2018, 97, .$	3.2	6
29	Detecting noise with shot noise using on-chip photon detector. Nature Communications, 2015, 6, 6130.	12.8	5
30	Reprint of : Hanbury-Brown Twiss noise correlation with time controlled quasi-particles in ballistic quantum conductors. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 82, 99-105.	2.7	4
31	Strongly Correlated Charge Transport in Silicon Metal-Oxide-Semiconductor Field-Effect Transistor Quantum Dots. Physical Review Letters, 2018, 121, 027701.	7.8	4
32	Influence of channel mixing in fermionic Hong-Ou-Mandel experiments. Physical Review B, 2022, 105, .	3.2	4
33	New binary single side band CPM. , 2017, , .		3
34	Positioning of edge states in a quantum Hall graphene $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{n} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \text{a} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{p} \langle \text{mml:mi} \rangle \text{ junction. Physical Review B, 2022, 105, .$	3.2	3
35	High visibility in an electronic Mach-Zehnder interferometer with random phase fluctuations. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 40, 1048-1050.	2.7	2