

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	Influence of channel mixing in fermionic Hong-Ou-Mandel experiments. <i>Physical Review B</i> , 2022, 105, .	3.2	4
2	Positioning of edge states in a quantum Hall graphene junction. <i>Physical Review B</i> , 2022, 105, .	3.2	3
3	Quantum Hall Valley Splitters and a Tunable Mach-Zehnder Interferometer in Graphene. <i>Physical Review Letters</i> , 2021, 126, 146803.	7.8	28
4	Excitonic nature of magnons in a quantum Hall ferromagnet. <i>Nature Physics</i> , 2021, 17, 1369-1374.	16.7	8
5	Relaxation and revival of quasiparticles injected in an interacting quantum Hall liquid. <i>Nature Communications</i> , 2020, 11, 2426.	12.8	21
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	Graphene junctions in the quantum Hall regime: Numerical study of incoherent scattering effects. <i>Physical Review B</i> , 2018, 97, .	3.2	0
10	From quantum physics to digital communication: Single sideband continuous phase modulation. <i>Comptes Rendus Physique</i> , 2018, 19, 54-63.	0.9	7
11	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
12	New binary single side band CPM. , 2017, , .		3
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	Robust quantum coherence above the Fermi sea. <i>Physical Review B</i> , 2016, 93, .	3.2	24
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

#	ARTICLE	IF	CITATIONS
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	Resonant Edge Magnetoplasmons and Their Decay in Graphene. Physical Review Letters, 2014, 113, 266601.	7.8	48
23	Quantum tomography of an electron. Nature, 2014, 514, 603-607.	27.8	150
24	Minimal-excitation states for electron quantum optics using levitons. Nature, 2013, 502, 659-663.	27.8	281
25	Integer and fractional charge Lorentzian voltage pulses analyzed in the framework of photon-assisted shot noise. Physical Review B, 2013, 88, .	3.2	107
26	Fractionalization of minimal excitations in integer quantum Hall edge channels. Physical Review B, 2013, 88, .	3.2	60
27	Coherent electron-phonon coupling in tailored quantum systems. Nature Communications, 2011, 2, 239.	12.8	41
28	Observation of excited states in a graphene double quantum dot. Europhysics Letters, 2010, 89, 67005.	2.0	66
29	Suppression of weak antilocalization in InAs nanowires. Physical Review B, 2010, 81, .	3.2	70
30	Quantum capacitance and density of states of graphene. Applied Physics Letters, 2010, 96, .	3.3	131
31	Tuning Decoherence with a Voltage Probe. Physical Review Letters, 2009, 102, 236802.	7.8	59
32	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
33	Direct Measurement of the Coherence Length of Edge States in the Integer Quantum Hall Regime. Physical Review Letters, 2008, 100, 126802.	7.8	207
34	Noise Dephasing in Edge States of the Integer Quantum Hall Regime. Physical Review Letters, 2008, 101, 186803.	7.8	61
35	Finite bias visibility of the electronic Mach-Zehnder interferometer. Physical Review B, 2007, 76, .	3.2	138