

Oleh Klochan

List of Publications by Citations

Source: <https://exaly.com/author-pdf/3754026/oleh-klochan-publications-by-citations.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52
papers

746
citations

18
h-index

25
g-index

71
ext. papers

877
ext. citations

4.9
avg, IF

3.27
L-index

#	Paper	IF	Citations
52	Zeeman splitting in ballistic hole quantum wires. <i>Physical Review Letters</i> , 2006 , 97, 026403	7.4	75
51	Ballistic transport in induced one-dimensional hole systems. <i>Applied Physics Letters</i> , 2006 , 89, 092105	3.4	46
50	Conductance quantization and the $0.7e^2/h$ conductance anomaly in one-dimensional hole systems. <i>Applied Physics Letters</i> , 2006 , 88, 012107	3.4	37
49	Strong and Tunable Spin-Orbit Coupling in a Two-Dimensional Hole Gas in Ionic-Liquid Gated Diamond Devices. <i>Nano Letters</i> , 2016 , 16, 3768-73	11.5	36
48	Spin-orbit interaction in a two-dimensional hole gas at the surface of hydrogenated diamond. <i>Nano Letters</i> , 2015 , 15, 16-20	11.5	34
47	One-dimensional conduction properties of highly phosphorus-doped planar nanowires patterned by scanning probe microscopy. <i>Physical Review B</i> , 2007 , 76,	3.3	32
46	Fabrication and characterization of ambipolar devices on an undoped AlGaAs/GaAs heterostructure. <i>Applied Physics Letters</i> , 2012 , 100, 052101	3.4	30
45	Anisotropic Pauli Spin Blockade of Holes in a GaAs Double Quantum Dot. <i>Nano Letters</i> , 2016 , 16, 7685-7689	11.5	30
44	0.7 Structure and zero bias anomaly in ballistic hole quantum wires. <i>Physical Review Letters</i> , 2008 , 100, 016403	7.4	26
43	Observation of orientation- and k-dependent Zeeman spin-splitting in hole quantum wires on (100)-oriented AlGaAs/GaAs heterostructures. <i>New Journal of Physics</i> , 2010 , 12, 033043	2.9	25
42	Impact of small-angle scattering on ballistic transport in quantum dots. <i>Physical Review Letters</i> , 2012 , 108, 196807	7.4	24
41	Resistively detected nuclear magnetic resonance in n- and p-type GaAs quantum point contacts. <i>Nano Letters</i> , 2011 , 11, 3147-50	11.5	24
40	Transport in disordered monolayer MoS ₂ nanoflakes—evidence for inhomogeneous charge transport. <i>Nanotechnology</i> , 2014 , 25, 375201	3.4	23
39	Observation of the Kondo effect in a spin-3/2 hole quantum dot. <i>Physical Review Letters</i> , 2011 , 107, 076805	7.4	23
38	Using a tunable quantum wire to measure the large out-of-plane spin splitting of quasi two-dimensional holes in a GaAs nanostructure. <i>Nano Letters</i> , 2013 , 13, 148-52	11.5	21
37	AlGaAs/GaAs single electron transistor fabricated without modulation doping. <i>Applied Physics Letters</i> , 2010 , 96, 112104	3.4	20
36	Fabrication and characterization of an induced GaAs single hole transistor. <i>Applied Physics Letters</i> , 2010 , 96, 092103	3.4	20

35	The interplay between one-dimensional confinement and two-dimensional crystallographic anisotropy effects in ballistic hole quantum wires. <i>New Journal of Physics</i> , 2009 , 11, 043018	2.9	20
34	Extreme sensitivity of the spin-splitting and 0.7 anomaly to confining potential in one-dimensional nanoelectronic devices. <i>Nano Letters</i> , 2012 , 12, 4495-502	11.5	18
33	Influence of surface states on quantum and transport lifetimes in high-quality undoped heterostructures. <i>Physical Review B</i> , 2013 , 87,	3.3	17
32	Piezoelectric rotator for studying quantum effects in semiconductor nanostructures at high magnetic fields and low temperatures. <i>Review of Scientific Instruments</i> , 2010 , 81, 113905	1.7	17
31	Thickness-dependent electronic structure in WTe ₂ thin films. <i>Physical Review B</i> , 2018 , 98,	3.3	15
30	Ultra-shallow quantum dots in an undoped GaAs/AlGaAs two-dimensional electron gas. <i>Applied Physics Letters</i> , 2013 , 102, 103507	3.4	14
29	Effect of screening long-range Coulomb interactions on the metallic behavior in two-dimensional hole systems. <i>Physical Review B</i> , 2008 , 77,	3.3	14
28	Detection and Control of Spin-Orbit Interactions in a GaAs Hole Quantum Point Contact. <i>Physical Review Letters</i> , 2017 , 118, 146801	7.4	12
27	Origin of gate hysteresis in p-type Si-doped AlGaAs/GaAs heterostructures. <i>Physical Review B</i> , 2012 , 86,	3.3	12
26	Scaling of the Kondo zero-bias peak in a hole quantum dot at finite temperatures. <i>Physical Review B</i> , 2013 , 87,	3.3	11
25	Manifestation of a non-Abelian Berry phase in a p-type semiconductor system. <i>Physical Review B</i> , 2016 , 93,	3.3	10
24	Electrical control of the sign of the g factor in a GaAs hole quantum point contact. <i>Physical Review B</i> , 2016 , 94,	3.3	9
23	Noncollinear paramagnetism of a GaAs two-dimensional hole system. <i>Physical Review Letters</i> , 2014 , 113, 236401	7.4	8
22	The 0.7 anomaly in one-dimensional hole quantum wires. <i>Journal of Physics Condensed Matter</i> , 2008 , 20, 164205	1.8	8
21	Fabrication and characterisation of gallium arsenide ambipolar quantum point contacts. <i>Applied Physics Letters</i> , 2015 , 106, 183504	3.4	5
20	Landau level spin diode in a GaAs two dimensional hole system. <i>New Journal of Physics</i> , 2015 , 17, 033035	2.9	4
19	Double-layer-gate architecture for few-hole GaAs quantum dots. <i>Nanotechnology</i> , 2016 , 27, 334001	3.4	4
18	A study of transport suppression in an undoped AlGaAs/GaAs quantum dot single-electron transistor. <i>Journal of Physics Condensed Matter</i> , 2013 , 25, 505302	1.8	4

17	New signatures of the spin gap in quantum point contacts. <i>Nature Communications</i> , 2021 , 12, 5	17.4	4
16	Ballistic induced hole quantum wires fabricated on a (100)-oriented AlGaAs/GaAs heterostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 1111-1113	3	2
15	Ballistic transport in one-dimensional bilayer hole systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2006 , 34, 550-552	3	2
14	Transverse magnetic focussing of heavy holes in a (100) GaAs quantum well. <i>Semiconductor Science and Technology</i> , 2015 , 30, 102001	1.8	1
13	2014 ,		1
12	Determining the stability and activation energy of Si acceptors in AlGaAs using quantum interference in an open hole quantum dot. <i>Physical Review B</i> , 2014 , 89,	3.3	1
11	Quantum transport in one-dimensional GaAs hole systems. <i>International Journal of Nanotechnology</i> , 2008 , 5, 318	1.5	1
10	Screening long-range Coulomb interactions in 2D hole systems using a bilayer heterostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1700-1702	3	1
9	Two-dimensional lateral surface superlattices in GaAs heterostructures with independent control of carrier density and modulation potential. <i>Applied Physics Letters</i> , 2020 , 117, 032102	3.4	1
8	Ultra-Shallow All-Epitaxial Aluminum Gate GaAs/AlxGa1-xAs Transistors with High Electron Mobility. <i>Advanced Functional Materials</i> , 2104213	15.6	1
7	High electron mobility and low noise quantum point contacts in an ultra-shallow all-epitaxial metal gate GaAs/AlxGa1-xAs heterostructure. <i>Applied Physics Letters</i> , 2021 , 119, 063105	3.4	1
6	Geometric Control of Universal Hydrodynamic Flow in a Two-Dimensional Electron Fluid. <i>Physical Review X</i> , 2021 , 11,	9.1	1
5	(100) GaAs/AlxGa1-xAs heterostructures for Zeeman spin splitting studies of hole quantum wires. <i>Journal of Crystal Growth</i> , 2011 , 323, 48-51	1.6	
4	Overlapping-Gate Architecture for Silicon Hall Bar MOSFET Devices in the Low Electron Density and High Magnetic Field Regime. <i>Materials Science Forum</i> , 2011 , 700, 93-95	0.4	
3	Crystallographic anisotropy of the Zeeman splitting in 1D hole quantum wires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 967-970	3	
2	0.7 Structure and zero bias anomaly in one-dimensional hole systems. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1501-1503	3	
1	Radiation-Stimulated Ordering Effect in CdS Crystals. <i>Solid State Phenomena</i> , 2001 , 82-84, 587-592	0.4	