

# Alina Mrenca-Kolasinska

## List of Publications by Year in descending order

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Version: 2024-02-01

29  
papers

224  
citations

1039880

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h-index

1058333

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g-index

30  
all docs

30  
docs citations

30  
times ranked

241  
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum capacitive coupling between large-angle twisted graphene layers. 2D Materials, 2022, 9, 025013.	2.0	2
2	Manipulating electron waves in graphene using carbon nanotube gating. Physical Review B, 2022, 105, .	1.1	4
3	Effective Landé factors for an electrostatically defined quantum point contact in silicene. Scientific Reports, 2021, 11, 19892.	1.6	0
4	Fast evaluation of interaction integrals for confined systems with machine learning. Physical Review B, 2020, 102, .	1.1	0
5	Aharonov-Bohm oscillations of four-probe resistance in topological quantum rings in silicene and bilayer graphene. Physical Review B, 2020, 101, .	1.1	4
6	Optimizing Dirac fermions quasi-confinement by potential smoothness engineering. 2D Materials, 2020, 7, 025037.	2.0	7
7	Topologically protected wave packets and quantum rings in silicene. Physical Review B, 2019, 100, .	1.1	5
8	Electron interferometry and quantum spin Hall phase in silicene. Physical Review B, 2019, 99, .	1.1	5
9	Finite-difference method for Dirac electrons in circular quantum dots. Physical Review B, 2019, 99, .	1.1	4
10	Electrical control of a confined electron spin in a silicene quantum dot. Physical Review B, 2018, 97, .	1.1	7
11	Imaging spin-resolved cyclotron trajectories in the InSb two-dimensional electron gas. Physical Review B, 2018, 98, .	1.1	2
12	Aharonov-Bohm conductance oscillations and current equilibration in local $n$ - $p$ junctions in graphene. Physical Review B, 2018, 98, .		
13	Circular $n$ - $p$ Junctions in Graphene Nanoribbons. Nanoscience and Technology, 2018, , 559-580.	1.5	0
14	Spin-active devices based on $n$ - $p$ heterostructures. Physical Review B, 2018, 98, .		
15	Electrostatic quantum dots in silicene. Scientific Reports, 2018, 8, 7166.	1.6	15
16	Imaging snake orbits at graphene $n$ - $p$ junctions. Physical Review B, 2017, 95, .		
17	Imaging backscattering in graphene quantum point contacts. Physical Review B, 2017, 96, .	1.1	7
18	Manipulating quantum Hall edge channels in graphene through scanning gate microscopy. Physical Review B, 2017, 96, .	1.1	8

#	ARTICLE	IF	CITATIONS
19	Electron spin inversion in fluorinated graphene nanoribbons. Physical Review B, 2017, 96, .	1.1	5
20	Lorentz force effects for graphene Aharonov-Bohm interferometers. Physical Review B, 2016, 94, .	1.1	15
21	Theory of ballistic quantum transport in the presence of localized defects. Physical Review B, 2016, 94, .	1.1	3
22	Transconductance and effective Landé factors for quantum point contacts: Spin-orbit coupling and interaction effects. Physical Review B, 2016, 93, .	1.1	10
23	Aharonov-Bohm interferometer based on $\pi$ phase in graphene nanoribbons. Physical Review B, 2016, 93, .	1.1	1
24	Interedge backscattering in buried split-gate-defined graphene quantum point contacts. Physical Review B, 2016, 94, .	1.1	13
25	Conductance response of graphene nanoribbons and quantum point contacts in scanning gate measurements. Semiconductor Science and Technology, 2015, 30, 085003.	1.0	9
26	Tight-binding simulations of electrically driven spin-valley transitions in carbon nanotube quantum dots. Physical Review B, 2014, 90, .	1.1	15
27	Imaging localization of quasibound states in graphene antidots. Physical Review B, 2014, 90, .	1.1	1
28	Shape of recombination lines for exciton complexes in quantum dots with in-plane electric field. Physics Letters, Section A: General, Atomic and Solid State Physics, 2013, 377, 3179-3183.	0.9	0
29	LabVIEW control software for scanning micro-beam X-ray fluorescence spectrometer. Talanta, 2012, 93, 186-192.	2.9	32