

# Alina Mrenca-Kolasinska

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7220890/publications.pdf>

Version: 2024-02-01

29  
papers

224  
citations

1039880

9  
h-index

1058333

14  
g-index

30  
all docs

30  
docs citations

30  
times ranked

241  
citing authors

#	ARTICLE	IF	CITATIONS
1	LabVIEW control software for scanning micro-beam X-ray fluorescence spectrometer. <i>Talanta</i> , 2012, 93, 186-192.	2.9	32
2	Aharonov-Bohm interferometer based on $\pi$ junctions in graphene nanoribbons. <i>Physical Review B</i> , 2016, 93, .	1.1	11
3	Imaging snake orbits at graphene $\pi$ junctions. <i>Physical Review B</i> , 2017, 95, .	1.1	10
4	Tight-binding simulations of electrically driven spin-valley transitions in carbon nanotube quantum dots. <i>Physical Review B</i> , 2014, 90, .	1.1	15
5	Lorentz force effects for graphene Aharonov-Bohm interferometers. <i>Physical Review B</i> , 2016, 94, .	1.1	15
6	Electrostatic quantum dots in silicene. <i>Scientific Reports</i> , 2018, 8, 7166.	1.6	15
7	Interedge backscattering in buried split-gate-defined graphene quantum point contacts. <i>Physical Review B</i> , 2016, 94, .	1.1	13
8	Transconductance and effective Landé factors for quantum point contacts: Spin-orbit coupling and interaction effects. <i>Physical Review B</i> , 2016, 93, .	1.1	10
9	Conductance response of graphene nanoribbons and quantum point contacts in scanning gate measurements. <i>Semiconductor Science and Technology</i> , 2015, 30, 085003.	1.0	9
10	Manipulating quantum Hall edge channels in graphene through scanning gate microscopy. <i>Physical Review B</i> , 2017, 96, .	1.1	8
11	Aharonov-Bohm conductance oscillations and current equilibration in local $\pi$ junctions in graphene. <i>Physical Review B</i> , 2018, 98, .	1.1	7
12	Imaging backscattering in graphene quantum point contacts. <i>Physical Review B</i> , 2017, 96, .	1.1	7
13	Electrical control of a confined electron spin in a silicene quantum dot. <i>Physical Review B</i> , 2018, 97, .	1.1	7
14	Optimizing Dirac fermions quasi-confinement by potential smoothness engineering. <i>2D Materials</i> , 2020, 7, 025037.	2.0	7
15	Electron spin inversion in fluorinated graphene nanoribbons. <i>Physical Review B</i> , 2017, 96, .	1.1	5
16	Spin-active devices based on $\pi$ heterostructures. <i>Physical Review B</i> , 2018, 98, .	1.1	5
17	Topologically protected wave packets and quantum rings in silicene. <i>Physical Review B</i> , 2019, 100, .	1.1	5
18	Electron interferometry and quantum spin Hall phase in silicene. <i>Physical Review B</i> , 2019, 99, .	1.1	5

#	ARTICLE	IF	CITATIONS
19	Finite-difference method for Dirac electrons in circular quantum dots. <i>Physical Review B</i> , 2019, 99, .	1.1	4
20	Aharonov-Bohm oscillations of four-probe resistance in topological quantum rings in silicene and bilayer graphene. <i>Physical Review B</i> , 2020, 101, .	1.1	4
21	Manipulating electron waves in graphene using carbon nanotube gating. <i>Physical Review B</i> , 2022, 105, .	1.1	4
22	Theory of ballistic quantum transport in the presence of localized defects. <i>Physical Review B</i> , 2016, 94, .	1.1	3
23	Imaging spin-resolved cyclotron trajectories in the InSb two-dimensional electron gas. <i>Physical Review B</i> , 2018, 98, .	1.1	2
24	Quantum capacitive coupling between large-angle twisted graphene layers. <i>2D Materials</i> , 2022, 9, 025013.	2.0	2
25	Imaging localization of quasibound states in graphene antidots. <i>Physical Review B</i> , 2014, 90, .	1.1	1
26	Shape of recombination lines for exciton complexes in quantum dots with in-plane electric field. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013, 377, 3179-3183.	0.9	0
27	Circular n-p Junctions in Graphene Nanoribbons. <i>Nanoscience and Technology</i> , 2018, , 559-580.	1.5	0
28	Fast evaluation of interaction integrals for confined systems with machine learning. <i>Physical Review B</i> , 2020, 102, .	1.1	0
29	Effective LandÅ© factors for an electrostatically defined quantum point contact in silicene. <i>Scientific Reports</i> , 2021, 11, 19892.	1.6	0