

Andor Kormányos

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

2,812
citations

393982

19
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253896

43
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46
all docs

46
docs citations

46
times ranked

3376
citing authors

#	ARTICLE	IF	CITATIONS
1	$k \cdot p$ theory for two-dimensional transition metal dichalcogenide semiconductors. 2D Materials, 2015, 2, 022001.	2.0	676
2	Breaking of Valley Degeneracy by Magnetic Field in Monolayer MoSe ₂ . Physical Review Letters, 2015, 114, 037401.	2.9	566
3	Monolayer MoS ₂ : Trigonal warping, the $\tilde{\Gamma}$ valley, and spin-orbit coupling effects. Physical Review B, 2013, 88, .	1.1	357
4	Spin-Orbit Coupling, Quantum Dots, and Qubits in Monolayer Transition Metal Dichalcogenides. Physical Review X, 2014, 4, .	2.8	222
5	Theory of snake states in graphene. Physical Review B, 2008, 77, .	1.1	105
6	Interactions and Magnetotransport through Spin-Valley Coupled Landau Levels in Monolayer MoS ₂ . Physical Review Letters, 2018, 121, 247701.	2.9	80
7	Induced spin-orbit coupling in twisted graphene–transition metal dichalcogenide heterobilayers: Twistronics meets spintronics. Physical Review B, 2019, 100, .	1.1	79
8	Tunable Berry curvature and valley and spin Hall effect in bilayer MoS ₂ . Physical Review B, 2018, 98, .	1.1	68
9	Current-Phase Relation of Ballistic Graphene Josephson Junctions. Nano Letters, 2017, 17, 3396-3401.	4.5	64
10	Bound states in inhomogeneous magnetic field in graphene: Semiclassical approach. Physical Review B, 2008, 78, .	1.1	58
11	Trigonal warping and anisotropic band splitting in monolayer graphene due to Rashba spin-orbit coupling. Physical Review B, 2010, 82, .	1.1	51
12	Josephson current in ballistic superconductor-graphene systems. Physical Review B, 2010, 82, .	1.1	47
13	Exploring the graphene edges with coherent electron focusing. Physical Review B, 2010, 81, .	1.1	36
14	Landau levels and Shubnikov–de Haas oscillations in monolayer transition metal dichalcogenide semiconductors. New Journal of Physics, 2015, 17, 103006.	1.2	26
15	Andreev reflection through Fano resonances in molecular wires. Physical Review B, 2009, 79, .	1.1	25
16	Transfer matrix approach for the Kerr and Faraday rotation in layered nanostructures. Journal of Physics Condensed Matter, 2016, 28, 375802.	0.7	23
17	Ballistic transport and boundary scattering in InSb/In _{0.53} Sb _{0.47} quantum dots. Physical Review B, 2010, 81, .	1.1	20
18	Effective theory of monolayer TMDC double quantum dots. 2D Materials, 2018, 5, 035031.	2.0	20

#	ARTICLE	IF	CITATIONS
19	Tailoring the Band Structure of Twisted Double Bilayer Graphene with Pressure. Nano Letters, 2021, 21, 8777-8784.	4.5	19
20	Quantum interference tuning of spin-orbit coupling in twisted van der Waals trilayers. Physical Review Research, 2022, 4, .	1.3	19
21	Nonthermal broadening in the conductance of double quantum dot structures. Physical Review B, 2007, 76, .	1.1	18
22	Proximity-Induced Subgaps in Andreev Billiards. Physical Review Letters, 2002, 89, 057001.	2.9	17
23	Effect of sublattice asymmetry and spin-orbit interaction on out-of-plane spin polarization of photoelectrons. Physical Review B, 2011, 83, .	1.1	17
24	Sub-100-nm negative bend resistance ballistic sensors for high spatial resolution magnetic field detection. Applied Physics Letters, 2011, 98, 062106.	1.5	15
25	Boundary conditions for transition-metal dichalcogenide monolayers in the continuum model. Physical Review B, 2015, 92, .	1.1	15
26	Effective description of the gap fluctuation for chaotic Andreev billiards. Physical Review B, 2004, 70, .	1.1	14
27	Intrinsic and substrate induced spin-orbit interaction in chirally stacked trilayer graphene. Physical Review B, 2013, 87, .	1.1	14
28	Room temperature ballistic transport in InSb quantum well nanodevices. Applied Physics Letters, 2011, 99, 242101-2421013.	1.5	13
29	Magnetic field oscillations of the critical current in long ballistic graphene Josephson junctions. Physical Review B, 2016, 93, .	1.1	12
30	Andreev edge channels and magnetic focusing in normal-superconductor systems: A semiclassical analysis. Physical Review B, 2007, 76, .	1.1	11
31	Semiclassical study of edge states and transverse electron focusing for strong spin-orbit coupling. Physical Review B, 2010, 82, .	1.1	9
32	Logarithmic contribution to the density of states of rectangular Andreev billiards. Physical Review B, 2003, 67, .	1.1	8
33	Bound states in Andreev billiards with soft walls. Physical Review B, 2005, 72, .	1.1	8
34	Quantum-Classical Correspondence in the Wave Functions of Andreev Billiards. Physical Review Letters, 2006, 96, 237002.	2.9	8
35	Graphene Andreev billiards. Physical Review B, 2009, 80, .	1.1	7
36	Andreev bound states for cake shape superconductingâ€“normal systems. Journal of Physics Condensed Matter, 2004, 16, 6737-6746.	0.7	4

#	ARTICLE	IF	CITATIONS
37	Superconducting Terminals as Sensitive Probes for Scarred States. <i>Physical Review Letters</i> , 2006, 97, 124102.	2.9	2
38	Quantized invariant tori in Andreev billiards of mixed phase space. <i>Physical Review B</i> , 2006, 73, .	1.1	1
39	Finite-size effects on the minimal conductivity in graphene with Rashba spin-orbit coupling. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 75, 1-6.	1.3	1
40	Magic Number Theory of Superconducting Proximity Effects and Wigner Delay Times in Graphene-Like Molecules. <i>Journal of Physical Chemistry C</i> , 2019, 123, 6812-6822.	1.5	1
41	Quantum Interference and Nonequilibrium Josephson Currents in Molecular Andreev Interferometers. <i>Nanomaterials</i> , 2020, 10, 1033.	1.9	1
42	Tunable Berry curvature, valley and spin Hall effect in Bilayer MoS ₂ . , 2019, , .		1
43	Ballistic transport effects in a sub-micron InSb quantum well cross structure. , 2011, , .		0
44	Reprint of : Finite-size effects on the minimal conductivity in graphene with Rashba spin-orbit coupling. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 82, 216-221.	1.3	0