

Andor Kormányos

List of Publications by Year in descending order

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44
papers

2,812
citations

393982

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46
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46
docs citations

46
times ranked

3376
citing authors

#	ARTICLE	IF	CITATIONS
1	Quantum interference tuning of spin-orbit coupling in twisted van der Waals trilayers. Physical Review Research, 2022, 4, .	1.3	19
2	Tailoring the Band Structure of Twisted Double Bilayer Graphene with Pressure. Nano Letters, 2021, 21, 8777-8784.	4.5	19
3	Quantum Interference and Nonequilibrium Josephson Currents in Molecular Andreev Interferometers. Nanomaterials, 2020, 10, 1033.	1.9	1
4	Induced spin-orbit coupling in twisted grapheneâ€“transition metal dichalcogenide heterobilayers: Twistronics meets spintronics. Physical Review B, 2019, 100, .	1.1	79
5	Magic Number Theory of Superconducting Proximity Effects and Wigner Delay Times in Graphene-Like Molecules. Journal of Physical Chemistry C, 2019, 123, 6812-6822.	1.5	1
6	Tunable Berry curvature, valley and spin Hall effect in Bilayer MoS ₂ . , 2019, , .		1
7	Interactions and Magnetotransport through Spin-Valley Coupled Landau Levels in Monolayer MoS ₂ . Physical Review Letters, 2018, 121, 247701.	2.9	80
8	Tunable Berry curvature and valley and spin Hall effect in bilayer MoS ₂ . Physical Review B, 2018, 98, .	1.1	1
9	Effective theory of monolayer TMDC double quantum dots. 2D Materials, 2018, 5, 035031.	2.0	20
10	Current-Phase Relation of Ballistic Graphene Josephson Junctions. Nano Letters, 2017, 17, 3396-3401.	4.5	64
11	Magnetic field oscillations of the critical current in long ballistic graphene Josephson junctions. Physical Review B, 2016, 93, .	1.1	12
12	Transfer matrix approach for the Kerr and Faraday rotation in layered nanostructures. Journal of Physics Condensed Matter, 2016, 28, 375802.	0.7	23
13	Reprint of : Finite-size effects on the minimal conductivity in graphene with Rashba spinâ€“orbit coupling. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 82, 216-221.	1.3	0
14	Finite-size effects on the minimal conductivity in graphene with Rashba spinâ€“orbit coupling. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 75, 1-6.	1.3	1
15	Boundary conditions for transition-metal dichalcogenide monolayers in the continuum model. Physical Review B, 2015, 92, .	1.1	15
16	Landau levels and Shubnikovâ€“de Haas oscillations in monolayer transition metal dichalcogenide semiconductors. New Journal of Physics, 2015, 17, 103006.	1.2	26
17	Breaking of Valley Degeneracy by Magnetic Field in Monolayer MoSe ₂ . Physical Review Letters, 2015, 114, 037401.	2.9	566
18	k _p theory for two-dimensional transition metal dichalcogenide semiconductors. 2D Materials, 2015, 2, 022001.	2.0	676

#	ARTICLE	IF	CITATIONS
19	Spin-Orbit Coupling, Quantum Dots, and Qubits in Monolayer Transition Metal Dichalcogenides. Physical Review X, 2014, 4, .	2.8	222
20	Monolayer MoS ₂ : Trigonal warping, the Γ valley, and spin-orbit coupling effects. Physical Review B, 2013, 88, .	1.1	357
21	Intrinsic and substrate induced spin-orbit interaction in chirally stacked trilayer graphene. Physical Review B, 2013, 87, .	1.1	14
22	Room temperature ballistic transport in InSb quantum well nanodevices. Applied Physics Letters, 2011, 99, 242101-2421013.	1.5	13
23	Ballistic transport and boundary scattering in InSb/In	1.1	20
24	Ballistic transport effects in a sub-micron InSb quantum well cross structure. , 2011, , .		0
25	Effect of sublattice asymmetry and spin-orbit interaction on out-of-plane spin polarization of photoelectrons. Physical Review B, 2011, 83, .	1.1	17
26	Sub-100-nm negative bend resistance ballistic sensors for high spatial resolution magnetic field detection. Applied Physics Letters, 2011, 98, 062106.	1.5	15
27	Josephson current in ballistic superconductor-graphene systems. Physical Review B, 2010, 82, .	1.1	47
28	Exploring the graphene edges with coherent electron focusing. Physical Review B, 2010, 81, .	1.1	36
29	Trigonal warping and anisotropic band splitting in monolayer graphene due to Rashba spin-orbit coupling. Physical Review B, 2010, 82, .	1.1	51
30	Semiclassical study of edge states and transverse electron focusing for strong spin-orbit coupling. Physical Review B, 2010, 82, .	1.1	9
31	Andreev reflection through Fano resonances in molecular wires. Physical Review B, 2009, 79, .	1.1	25
32	Graphene Andreev billiards. Physical Review B, 2009, 80, .	1.1	7
33	Theory of snake states in graphene. Physical Review B, 2008, 77, .	1.1	105
34	Bound states in inhomogeneous magnetic field in graphene: Semiclassical approach. Physical Review B, 2008, 78, .	1.1	58
35	Nonthermal broadening in the conductance of double quantum dot structures. Physical Review B, 2007, 76, .	1.1	18
36	Andreev edge channels and magnetic focusing in normal-superconductor systems: A semiclassical analysis. Physical Review B, 2007, 76, .	1.1	11

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37	Quantized invariant tori in Andreev billiards of mixed phase space. <i>Physical Review B</i> , 2006, 73, .	1.1	1
38	Quantum-Classical Correspondence in the Wave Functions of Andreev Billiards. <i>Physical Review Letters</i> , 2006, 96, 237002.	2.9	8
39	Superconducting Terminals as Sensitive Probes for Scarred States. <i>Physical Review Letters</i> , 2006, 97, 124102.	2.9	2
40	Bound states in Andreev billiards with soft walls. <i>Physical Review B</i> , 2005, 72, .	1.1	8
41	Andreev bound states for cake shape superconductingâ€“normal systems. <i>Journal of Physics Condensed Matter</i> , 2004, 16, 6737-6746.	0.7	4
42	Effective description of the gap fluctuation for chaotic Andreev billiards. <i>Physical Review B</i> , 2004, 70, .	1.1	14
43	Logarithmic contribution to the density of states of rectangular Andreev billiards. <i>Physical Review B</i> , 2003, 67, .	1.1	8
44	Proximity-Induced Subgaps in Andreev Billiards. <i>Physical Review Letters</i> , 2002, 89, 057001.	2.9	17