

Michael V Moskalets

List of Publications by Year in descending order

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77
papers

2,047
citations

257450

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254184

43
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docs citations

79
times ranked

724
citing authors

#	ARTICLE	IF	CITATIONS
1	Relation between scattering-matrix and Keldysh formalisms for quantum transport driven by time-periodic fields. <i>Physical Review B</i> , 2006, 74, .	3.2	151
2	Dynamical energy transfer in ac-driven quantum systems. <i>Physical Review B</i> , 2014, 89, .	3.2	114
3	Quantized Dynamics of a Coherent Capacitor. <i>Physical Review Letters</i> , 2008, 100, 086601.	7.8	111
4	Shot Noise of a Mesoscopic Two-Particle Collider. <i>Physical Review Letters</i> , 2008, 101, 166802.	7.8	106
5	Adiabatic quantum pump in the presence of external ac voltages. <i>Physical Review B</i> , 2004, 69, .	3.2	103
6	Two-Particle Nonlocal Aharonov-Bohm Effect from Two Single-Particle Emitters. <i>Physical Review Letters</i> , 2009, 103, 076804.	7.8	79
7	Heat production and energy balance in nanoscale engines driven by time-dependent fields. <i>Physical Review B</i> , 2007, 75, .	3.2	78
8	Coherence of single-electron sources from Mach-Zehnder interferometry. <i>Physical Review B</i> , 2011, 84, .	3.2	78
9	Floquet scattering theory for current and heat noise in large amplitude adiabatic pumps. <i>Physical Review B</i> , 2004, 70, .	3.2	69
10	Thermoelectric performance of a driven double quantum dot. <i>Physical Review B</i> , 2013, 87, .	3.2	69
11	Dynamics of energy transport and entropy production in ac-driven quantum electron systems. <i>Physical Review B</i> , 2016, 94, .	3.2	60
12	Glauber coherence of single-electron sources. <i>Physical Review B</i> , 2013, 87, .	3.2	50
13	Heat production and current noise for single- and double-cavity quantum capacitors. <i>Physical Review B</i> , 2009, 80, .	3.2	47
14	Electron counting with a two-particle emitter. <i>Physical Review B</i> , 2008, 78, .	3.2	46
15	Periodic Energy Transport and Entropy Production in Quantum Electronics. <i>Entropy</i> , 2016, 18, 419.	2.2	46
16	Scattering Theory of Dynamic Electrical Transport. <i>Lecture Notes in Physics</i> , 2006, , 33-44.	0.7	43
17	Quantum Heat Fluctuations of Single-Particle Sources. <i>Physical Review Letters</i> , 2013, 110, 126602.	7.8	43
18	Single-electron source: Adiabatic versus nonadiabatic emission. <i>Physical Review B</i> , 2013, 87, .	3.2	42

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19	Time-resolved noise of adiabatic quantum pumps. <i>Physical Review B</i> , 2007, 75, .	3.2	41
20	Magnetic-field symmetry of pump currents of adiabatically driven mesoscopic structures. <i>Physical Review B</i> , 2005, 72, .	3.2	39
21	Dynamic scattering channels of a double barrier structure. <i>Physical Review B</i> , 2008, 78, .	3.2	37
22	Spectroscopy of electron flows with single- and two-particle emitters. <i>Physical Review B</i> , 2011, 83, .	3.2	33
23	Floquet Scattering Matrix Theory of Heat Fluctuations in Dynamical Quantum Conductors. <i>Physical Review Letters</i> , 2014, 112, .	7.8	31
24	First-order correlation function of a stream of single-electron wave packets. <i>Physical Review B</i> , 2015, 91, .	3.2	28
25	Fractionally Charged Zero-Energy Single-Particle Excitations in a Driven Fermi Sea. <i>Physical Review Letters</i> , 2016, 117, 046801.	7.8	24
26	Two-electron state from the Floquet scattering matrix perspective. <i>Physical Review B</i> , 2014, 89, .	3.2	23
27	Single-particle interference versus two-particle collisions. <i>Europhysics Letters</i> , 2011, 96, 37011.	2.0	22
28	Temperature-induced current in a one-dimensional ballistic ring with contacts. <i>Europhysics Letters</i> , 1998, 41, 189-194.	2.0	21
29	Transport phenomena in helical edge state interferometers: A Green's function approach. <i>Physical Review B</i> , 2013, 88, .	3.2	21
30	Probing the energy reactance with adiabatically driven quantum dots. <i>Physical Review B</i> , 2018, 97, .	3.2	21
31	Single-electron coherence: Finite temperature versus pure dephasing. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 75, 358-369.	2.7	20
32	Multiparticle correlations of an oscillating scatterer. <i>Physical Review B</i> , 2006, 73, .	3.2	16
33	Noise of a single-electron emitter. <i>Physical Review B</i> , 2013, 88, .	3.2	16
34	Interference and multiparticle effects in a Mach-Zehnder interferometer with single-particle sources. <i>Physical Review B</i> , 2015, 91, .	3.2	16
35	Heat and charge transport measurements to access single-electron quantum characteristics. <i>Physica Status Solidi (B): Basic Research</i> , 2017, 254, 1600616.	1.5	15
36	Single-particle shot noise at nonzero temperature. <i>Physical Review B</i> , 2017, 96, .	3.2	13

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37	Single-particle emission at finite temperatures. <i>Low Temperature Physics</i> , 2017, 43, 865-876.	0.6	12
38	Thermodynamic bounds on coherent transport in periodically driven conductors. <i>Physical Review X</i> , 2021, 11, .	8.9	12
39	FROM ANDERSON LOCALIZATION TO MESOSCOPIC PHYSICS. <i>International Journal of Modern Physics B</i> , 2010, 24, 1555-1576.	2.0	11
40	Two-particle Aharonov-Bohm effect in electronic interferometers. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 354027.	2.1	11
41	High-temperature fusion of a multielectron leviton. <i>Physical Review B</i> , 2018, 97, .	3.2	11
42	Time-Domain Spectroscopy of Mesoscopic Conductors Using Voltage Pulses. <i>Advanced Quantum Technologies</i> , 2019, 2, 1900014.	3.9	11
43	Quantum pump driven fermionic Mach-Zehnder interferometer. <i>Physical Review B</i> , 2007, 75, .	3.2	10
44	Interference phenomena and ballistic transport in a one-dimensional ring. <i>Low Temperature Physics</i> , 1997, 23, 824-829.	0.6	9
45	The influence of spin-orbit interaction and Zeeman effect on the persistent current in a one-dimensional ring of correlated electrons. <i>Physica B: Condensed Matter</i> , 2000, 291, 350-358.	2.7	9
46	Coulomb blockade of the persistent current in a one-dimensional system of electrons with spin. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1999, 4, 17-24.	2.7	8
47	Composite two-particle sources. <i>European Physical Journal: Special Topics</i> , 2020, 229, 647-662.	2.6	8
48	Temperature dependence of the kinetic coefficients of interference ballistic structures. <i>Journal of Experimental and Theoretical Physics</i> , 1998, 87, 991-995.	0.9	7
49	Coulomb blockade of the persistent current in a one-dimensional ballistic Luttinger liquid ring. <i>European Physical Journal B</i> , 1999, 7, 645-649.	1.5	7
50	Time resolved heat exchange in driven quantum systems. <i>Journal of Physics: Conference Series</i> , 2014, 568, 052017.	0.4	7
51	Persistent current in a one-dimensional ring with a weak link. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 1999, 5, 124-135.	2.7	5
52	The effect of interelectron interactions on thermal fluctuations of a persistent current in a single one-dimensional ballistic ring. <i>Physica B: Condensed Matter</i> , 2001, 301, 286-291.	2.7	5
53	Fermi-sea correlations and a single-electron time-bin qubit. <i>Physical Review B</i> , 2014, 90, .	3.2	5
54	Reprint of : Single-electron coherence: Finite temperature versus pure dephasing. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 82, 204-215.	2.7	5

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55	Single-electron second-order correlation function $\langle mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msup><mml:mi>G</mml:mi><mml:mrow><mml:mo>\langle mml:m0><mml:mi>G</mml:mi></mml:mrow></mml:math\rangle$ at nonzero temperatures. Physical Review B, 2018, 98, .		
56	Multi-Particle Interference in an Electronic Mach-Zehnder Interferometer. Entropy, 2021, 23, 736.	2.2	5
57	Oscillations of the electrochemical capacitance of a one-dimensional ring of correlated electrons. Physica E: Low-Dimensional Systems and Nanostructures, 1999, 4, 111-118.	2.7	4
58	Temperature-enhanced persistent currents and $\pi/2$ periodicity. Physical Review B, 2000, 62, 6920-6923.	3.2	4
59	Persistent currents in ballistic normal-metal rings. Low Temperature Physics, 2010, 36, 982-989.	0.6	4
60	Floquet scattering matrix approach to the phase noise of a single-electron source in the adiabatic regime. Journal of Computational Electronics, 2013, 12, 397-404.	2.5	4
61	Persistent current in a mesoscopic ring with resonant tunneling. Europhysics Letters, 1997, 39, 425-428.	2.0	3
62	The influence of the capacity upon the persistent current in a one-dimensional ballistic ring. Physica B: Condensed Matter, 1998, 252, 244-248.	2.7	3
63	Time-Domain Spectroscopy of Mesoscopic Conductors Using Voltage Pulses (Adv. Quantum Technol.) Tj ETQq1 1,0.784314 rgBT /C 3.9	1.0	3
64	Quantum Transport in Mesoscopic Systems. Entropy, 2020, 22, 977.	2.2	3
65	Ballistic transport and interband interference in two-dimensional quantum contacts. Low Temperature Physics, 1997, 23, 235-240.	0.6	2
66	Magnetic and electrostatic Aharonov-Bohm effects in a pure mesoscopic ring. Low Temperature Physics, 1997, 23, 312-313.	0.6	2
67	The effect of dissipation on the persistent current in a one-dimensional ballistic ring. Physica B: Condensed Matter, 2000, 291, 75-80.	2.7	2
68	Universal AC response of a 1D Luttinger liquid ring. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 8, 349-359.	2.7	2
69	Auto- versus Cross-Correlation Noise in Periodically Driven Quantum Coherent Conductors. Entropy, 2021, 23, 393.	2.2	2
70	Influence of the coulomb blockade effect on heat transfer in a one-dimensional system of spinless electrons. Journal of Experimental and Theoretical Physics, 2000, 90, 842-849.	0.9	1
71	FROM ANDERSON LOCALIZATION TO MESOSCOPIC PHYSICS. , 2010, , 169-190.		1
72	Single-electron emission from degenerate quantum levels. Physica E: Low-Dimensional Systems and Nanostructures, 2021, 127, 114531.	2.7	1

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73	Temperature-field spectroscopy of quantum levels in two-dimensional ballistic contacts. Europhysics Letters, 1997, 38, 119-122.	2.0	0
74	Persistent current in a ballistic ring with a quantum dot. Low Temperature Physics, 1997, 23, 738-740.	0.6	0
75	Peculiarities of nonlinear electrical conductivity of two-dimensional ballistic contacts. Low Temperature Physics, 1997, 23, 644-649.	0.6	0
76	Heat transport through a quantum dot with one-dimensional interacting leads under Coulomb blockade regime. European Physical Journal B, 2000, 15, 523-529.	1.5	0
77	Statistics of temperature and potential fluctuations induced by coherent single particle sources. , 2013, , .		0