

# Michael V Moskalets

## List of Publications by Year in descending order

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77  
papers

2,047  
citations

257450

24  
h-index

254184

43  
g-index

79  
all docs

79  
docs citations

79  
times ranked

724  
citing authors

#	ARTICLE	IF	CITATIONS
1	Single-electron emission from degenerate quantum levels. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2021, 127, 114531.	2.7	1
2	Auto- versus Cross-Correlation Noise in Periodically Driven Quantum Coherent Conductors. <i>Entropy</i> , 2021, 23, 393.	2.2	2
3	Thermodynamic bounds on coherent transport in periodically driven conductors. <i>Physical Review X</i> , 2021, 11, .	8.9	12
4	Multi-Particle Interference in an Electronic Mach-Zehnder Interferometer. <i>Entropy</i> , 2021, 23, 736.	2.2	5
5	Quantum Transport in Mesoscopic Systems. <i>Entropy</i> , 2020, 22, 977.	2.2	3
6	Composite two-particle sources. <i>European Physical Journal: Special Topics</i> , 2020, 229, 647-662.	2.6	8
7	Time-Domain Spectroscopy of Mesoscopic Conductors Using Voltage Pulses. <i>Advanced Quantum Technologies</i> , 2019, 2, 1900014.	3.9	11
8	Time-Domain Spectroscopy of Mesoscopic Conductors Using Voltage Pulses ( <i>Adv. Quantum Technol.</i> )	3.9	3
9	High-temperature fusion of a multielectron leviton. <i>Physical Review B</i> , 2018, 97, .	3.2	11
10	Probing the energy reactance with adiabatically driven quantum dots. <i>Physical Review B</i> , 2018, 97, .	3.2	21
11	Single-electron second-order correlation function at nonzero temperatures. <i>Physical Review B</i> , 2018, 98, .	3.2	12
12	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
13	Single-particle shot noise at nonzero temperature. <i>Physical Review B</i> , 2017, 96, .	3.2	13
14	Single-particle emission at finite temperatures. <i>Low Temperature Physics</i> , 2017, 43, 865-876.	0.6	12
15	Periodic Energy Transport and Entropy Production in Quantum Electronics. <i>Entropy</i> , 2016, 18, 419.	2.2	46
16	Dynamics of energy transport and entropy production in ac-driven quantum electron systems. <i>Physical Review B</i> , 2016, 94, .	3.2	60
17	Fractionally Charged Zero-Energy Single-Particle Excitations in a Driven Fermi Sea. <i>Physical Review Letters</i> , 2016, 117, 046801.	7.8	24
18	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

#	ARTICLE	IF	CITATIONS
19	Single-electron coherence: Finite temperature versus pure dephasing. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016, 75, 358-369.	2.7	20
20	First-order correlation function of a stream of single-electron wave packets. <i>Physical Review B</i> , 2015, 91, .	3.2	28
21	Interference and multiparticle effects in a Mach-Zehnder interferometer with single-particle sources. <i>Physical Review B</i> , 2015, 91, .	3.2	16
22	Fermi-sea correlations and a single-electron time-bin qubit. <i>Physical Review B</i> , 2014, 90, .	3.2	5
23	Floquet Scattering Matrix Theory of Heat Fluctuations in Dynamical Quantum Conductors. <i>Physical Review Letters</i> , 2014, 112, .	7.8	31
24	Dynamical energy transfer in ac-driven quantum systems. <i>Physical Review B</i> , 2014, 89, .	3.2	114
25	Two-electron state from the Floquet scattering matrix perspective. <i>Physical Review B</i> , 2014, 89, .	3.2	23
26	Time resolved heat exchange in driven quantum systems. <i>Journal of Physics: Conference Series</i> , 2014, 568, 052017.	0.4	7
27	Floquet scattering matrix approach to the phase noise of a single-electron source in the adiabatic regime. <i>Journal of Computational Electronics</i> , 2013, 12, 397-404.	2.5	4
28	Thermoelectric performance of a driven double quantum dot. <i>Physical Review B</i> , 2013, 87, .	3.2	69
29	Statistics of temperature and potential fluctuations induced by coherent single particle sources. , 2013, , .		0
30	Glauber coherence of single-electron sources. <i>Physical Review B</i> , 2013, 87, .	3.2	50
31	Single-electron source: Adiabatic versus nonadiabatic emission. <i>Physical Review B</i> , 2013, 87, .	3.2	42
32	Noise of a single-electron emitter. <i>Physical Review B</i> , 2013, 88, .	3.2	16
33	Quantum Heat Fluctuations of Single-Particle Sources. <i>Physical Review Letters</i> , 2013, 110, 126602.	7.8	43
34	Transport phenomena in helical edge state interferometers: A Green's function approach. <i>Physical Review B</i> , 2013, 88, .	3.2	21
35	Coherence of single-electron sources from Mach-Zehnder interferometry. <i>Physical Review B</i> , 2011, 84, .	3.2	78
36	Single-particle interference versus two-particle collisions. <i>Europhysics Letters</i> , 2011, 96, 37011.	2.0	22

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37	Spectroscopy of electron flows with single- and two-particle emitters. <i>Physical Review B</i> , 2011, 83, .	3.2	33
38	Persistent currents in ballistic normal-metal rings. <i>Low Temperature Physics</i> , 2010, 36, 982-989.	0.6	4
39	FROM ANDERSON LOCALIZATION TO MESOSCOPIC PHYSICS. , 2010, , 169-190.		1
40	FROM ANDERSON LOCALIZATION TO MESOSCOPIC PHYSICS. <i>International Journal of Modern Physics B</i> , 2010, 24, 1555-1576.	2.0	11
41	Two-particle Aharonov-Bohm effect in electronic interferometers. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2010, 43, 354027.	2.1	11
42	Two-Particle Nonlocal Aharonov-Bohm Effect from Two Single-Particle Emitters. <i>Physical Review Letters</i> , 2009, 103, 076804.	7.8	79
43	Heat production and current noise for single- and double-cavity quantum capacitors. <i>Physical Review B</i> , 2009, 80, .	3.2	47
44	Dynamic scattering channels of a double barrier structure. <i>Physical Review B</i> , 2008, 78, .	3.2	37
45	Quantized Dynamics of a Coherent Capacitor. <i>Physical Review Letters</i> , 2008, 100, 086601.	7.8	111
46	Shot Noise of a Mesoscopic Two-Particle Collider. <i>Physical Review Letters</i> , 2008, 101, 166802.	7.8	106
47	Electron counting with a two-particle emitter. <i>Physical Review B</i> , 2008, 78, .	3.2	46
48	Quantum pump driven fermionic Mach-Zehnder interferometer. <i>Physical Review B</i> , 2007, 75, .	3.2	10
49	Time-resolved noise of adiabatic quantum pumps. <i>Physical Review B</i> , 2007, 75, .	3.2	41
50	Heat production and energy balance in nanoscale engines driven by time-dependent fields. <i>Physical Review B</i> , 2007, 75, .	3.2	78
51	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
52	Scattering Theory of Dynamic Electrical Transport. <i>Lecture Notes in Physics</i> , 2006, , 33-44.	0.7	43
53	Multiparticle correlations of an oscillating scatterer. <i>Physical Review B</i> , 2006, 73, .	3.2	16
54	Magnetic-field symmetry of pump currents of adiabatically driven mesoscopic structures. <i>Physical Review B</i> , 2005, 72, .	3.2	39

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55	Floquet scattering theory for current and heat noise in large amplitude adiabatic pumps. Physical Review B, 2004, 70, .	3.2	69
56	Adiabatic quantum pump in the presence of external ac voltages. Physical Review B, 2004, 69, .	3.2	103
57	The effect of interelectron interactions on thermal fluctuations of a persistent current in a single one-dimensional ballistic ring. Physica B: Condensed Matter, 2001, 301, 286-291.	2.7	5
58	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
59	The influence of spin-orbit interaction and Zeeman effect on the persistent current in a one-dimensional ring of correlated electrons. Physica B: Condensed Matter, 2000, 291, 350-358.	2.7	9
60	Universal AC response of a 1D Luttinger liquid ring. Physica E: Low-Dimensional Systems and Nanostructures, 2000, 8, 349-359.	2.7	2
61	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
62	Temperature-enhanced persistent currents and $\pi/2$ periodicity. Physical Review B, 2000, 62, 6920-6923.	3.2	4
63	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
64	Coulomb blockade of the persistent current in a one-dimensional system of electrons with spin. Physica E: Low-Dimensional Systems and Nanostructures, 1999, 4, 17-24.	2.7	8
65	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
66	Persistent current in a one-dimensional ring with a weak link. Physica E: Low-Dimensional Systems and Nanostructures, 1999, 5, 124-135.	2.7	5
67	Coulomb blockade of the persistent current in a one-dimensional ballistic Luttinger liquid ring. European Physical Journal B, 1999, 7, 645-649.	1.5	7
68	Temperature dependence of the kinetic coefficients of interference ballistic structures. Journal of Experimental and Theoretical Physics, 1998, 87, 991-995.	0.9	7
69	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
70	Temperature-induced current in a one-dimensional ballistic ring with contacts. Europhysics Letters, 1998, 41, 189-194.	2.0	21
71	Persistent current in a mesoscopic ring with resonant tunneling. Europhysics Letters, 1997, 39, 425-428.	2.0	3
72	Temperature-field spectroscopy of quantum levels in two-dimensional ballistic contacts. Europhysics Letters, 1997, 38, 119-122.	2.0	0

#	ARTICLE	IF	CITATIONS
73	Ballistic transport and interband interference in two-dimensional quantum contacts. Low Temperature Physics, 1997, 23, 235-240.	0.6	2
74	Magnetic and electrostatic Aharonov-Bohm effects in a pure mesoscopic ring. Low Temperature Physics, 1997, 23, 312-313.	0.6	2
75	Interference phenomena and ballistic transport in a one-dimensional ring. Low Temperature Physics, 1997, 23, 824-829.	0.6	9
76	Persistent current in a ballistic ring with a quantum dot. Low Temperature Physics, 1997, 23, 738-740.	0.6	0
77	Peculiarities of nonlinear electrical conductivity of two-dimensional ballistic contacts. Low Temperature Physics, 1997, 23, 644-649.	0.6	0