

Matvey Entin

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

85 papers	757 citations	14 h-index	24 g-index
89 ext. papers	850 ext. citations	1.5 avg, IF	4.16 L-index

#	Paper	IF	Citations
85	Thermo emf in a two-dimensional electron-hole system in HgTe quantum wells in the presence of magnetic field. The role of the diffusive and the phonon-drag contributions. <i>Low Temperature Physics</i> , 2021 , 47, 2-6	0.7	0
84	Conductivity of a two-dimensional HgTe layer near the critical width: The role of developed edge states network and random mixture of p- and n-domains. <i>Physical Review B</i> , 2020 , 101,	3.3	4
83	Transport Properties of Two-Dimensional Topological Insulators and Excitonic Condensates. <i>Optoelectronics, Instrumentation and Data Processing</i> , 2020 , 56, 545-552	0.6	
82	Edge States and Capacitance of a 2D Topological Insulator. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800675	1.3	1
81	Photogalvanic effect in monolayer transition metal dichalcogenides under double illumination. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 325302	1.8	3
80	Microwave Absorption in 2D Topological Insulators with a Developed Edge States Network. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800652	1.3	4
79	Scattering of Electrons between Edge and Two-Dimensional States of a Two-Dimensional Topological Insulator and the Conductivity of the Topological Insulator Strip in a Metallic State. <i>JETP Letters</i> , 2019 , 109, 331-333	1.2	
78	Is the Edge States Energy Spectrum of a 2D Topological Insulator Linear?. <i>Semiconductors</i> , 2018 , 52, 526-530	1.3	4
77	Quantum Hall effect in HgTe quantum wells. <i>Journal of Experimental and Theoretical Physics Letters</i> , 2018 , 814-818	1.3	
76	Thermopower of a Two-Dimensional Semimetal in a HgTe Quantum Well. <i>JETP Letters</i> , 2018 , 107, 789-793	1.2	4
75	Gapless Dirac Electron Mobility and Quantum Time in HgTe Quantum Wells. <i>Semiconductors</i> , 2018 , 52, 1468-1472	0.7	
74	Edge capacitance of a two-dimensional topological insulator. <i>Physical Review B</i> , 2017 , 96,	3.3	8
73	Edge absorption and pure spin current in a 2D topological insulator in the Volkov-Pankratov model. <i>Journal of Physics Condensed Matter</i> , 2017 , 29, 435303	1.8	4
72	Linearity of the edge states energy spectrum in the 2D topological insulator. <i>Europhysics Letters</i> , 2017 , 118, 57002	1.6	11
71	Edge states on the curved boundary of a 2D topological insulator. <i>Europhysics Letters</i> , 2017 , 120, 37003	1.6	5
70	Exact solution for many-body Hamiltonian of interacting particles with linear spectrum. <i>Europhysics Letters</i> , 2017 , 120, 17003	1.6	3
69	Coherent photogalvanic valley Hall effect. <i>JETP Letters</i> , 2017 , 106, 565-570	1.2	4



68	<i>Journal of Experimental and Theoretical Physics Letters</i> , 2017 , 549-554	1.3	1
67	Edge excitons in a 2D topological insulator in a magnetic field. <i>JETP Letters</i> , 2016 , 103, 328-333	1.2	2
66	Circular photogalvanic effect caused by the transitions between edge and 2D states in a 2D topological insulator. <i>JETP Letters</i> , 2016 , 104, 771-775	1.2	8
65	Mobility of Dirac electrons in HgTe quantum wells. <i>JETP Letters</i> , 2016 , 104, 388-391	1.2	5
64	Edge absorption and circular photogalvanic effect in 2D topological insulator edges. <i>JETP Letters</i> , 2016 , 103, 711-716	1.2	6
63	Localization of edge electrons in a 2D topological insulator strip. <i>JETP Letters</i> , 2015 , 100, 566-569	1.2	2
62	Backscattering in a 2D topological insulator and the conductivity of a 2D strip. <i>JETP Letters</i> , 2015 , 100, 561-565	1.2	4
61	Surface states in a HgTe quantum well and scattering by surface roughness. <i>JETP Letters</i> , 2015 , 101, 330-333	1.2	5
60	Intervalley scattering by charged impurities in graphene. <i>JETP Letters</i> , 2015 , 101, 325-329	1.2	3
59	Photocurrent in a two-dimensional ribbon with the conic electron spectrum. <i>JETP Letters</i> , 2015 , 102, 599-602	1.2	2
58	Surface photocurrent in an electron gas over liquid He subjected to a quantizing magnetic field. <i>JETP Letters</i> , 2015 , 101, 744-749	1.2	1
57	Photogalvanic current in electron gas over a liquid helium surface. <i>JETP Letters</i> , 2014 , 98, 816-822	1.2	6
56	Dephasing in gapless carbon nanotubes and nanostrips and the suppression of interference in a quantum interferometer based on them. <i>JETP Letters</i> , 2014 , 99, 410-414	1.2	4
55	Moving zero-gap Wannier-Mott excitons in graphene. <i>Europhysics Letters</i> , 2013 , 102, 37012	1.6	18
54	The effect of electron-hole scattering on transport properties of a 2D semimetal in the HgTe quantum well. <i>Journal of Experimental and Theoretical Physics</i> , 2013 , 117, 933-943	1	9
53	Photogalvanic current in a parabolic well. <i>JETP Letters</i> , 2013 , 97, 639-643	1.2	6
52	Photogalvanic current in a double quantum well. <i>JETP Letters</i> , 2013 , 98, 38-42	1.2	4
51	Quantum mechanics of graphene with a one-dimensional potential. <i>Journal of Experimental and Theoretical Physics</i> , 2012 , 115, 694-705	1	12

50	Moving gapless indirect excitons in monolayer graphene. <i>Nanoscale Research Letters</i> , 2012 , 7, 599	5	6
49	Valley separation in graphene by polarized light. <i>Physical Review B</i> , 2011 , 84,	3.3	69
48	Conductivity of 2D multi-component electron gas partially-quantized by magnetic field. <i>European Physical Journal B</i> , 2011 , 81, 225-230	1.2	2
47	Theory of resonant photon drag in monolayer graphene. <i>Physical Review B</i> , 2010 , 81,	3.3	38
46	Stationary drag photocurrent caused by strong effective running wave in quantum wires: Quantization of current. <i>Physical Review B</i> , 2010 , 81,	3.3	6
45	Photovoltage in curved one-dimensional systems. <i>Physical Review B</i> , 2009 , 79,	3.3	7
44	Scattering processes in a two-dimensional semimetal. <i>JETP Letters</i> , 2009 , 89, 290-293	1.2	32
43	Ratchet transport of interacting particles. <i>Physical Review E</i> , 2008 , 78, 041127	2.4	19
42	High-frequency blockade in tight-binding one-dimensional lattice with single vibrating site. <i>Europhysics Letters</i> , 2008 , 84, 47008	1.6	5
41	Resonant tunnelling via two impurity levels in a vertical tunnelling nanostructure. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2007 , 4, 505-508		1
40	High-frequency resonant blockade in one-dimensional quantum pump with oscillating potential wells. <i>Journal of Experimental and Theoretical Physics</i> , 2007 , 105, 495-501	1	4
39	Photogalvanic current in artificial asymmetric nanostructures. <i>European Physical Journal B</i> , 2007 , 56, 323-333	1.2	28
38	Theory of one-dimensional double-barrier quantum pump in two-frequency signal regime. <i>Europhysics Letters</i> , 2007 , 77, 67002	1.6	13
37	One-dimensional two-barrier quantum pump with harmonically oscillating barriers: Perturbative, strong-signal, and nonadiabatic regimes. <i>Physical Review B</i> , 2006 , 74,	3.3	31
36	Photocurrent in nanostructures with asymmetric antidots: Exactly solvable model. <i>Physical Review B</i> , 2006 , 73,	3.3	18
35	Spectrum and kinetics of electrons in curved nanostructures. <i>Physics-Uspekhi</i> , 2005 , 48, 953-958	2.8	21
34	Theory of one-dimensional quantum pump based on a two-barrier structure. <i>Journal of Experimental and Theoretical Physics</i> , 2005 , 100, 920-928	1	10
33	Optical amplification of photoinduced polarizability gratings in phosphate glasses. <i>JETP Letters</i> , 2004 , 80, 26-29	1.2	0

32	Inductive current in a quantum ring. <i>JETP Letters</i> , 2004 , 80, 421-425	1.2	3
31	Suppression of spin-orbit effects in a 1D system. <i>Europhysics Letters</i> , 2004 , 68, 853-859	1.6	12
30	DISTRIBUTION OF EQUILIBRIUM EDGE CURRENTS. <i>International Journal of Nanoscience</i> , 2003 , 02, 611-617	1.6	16
29	Electrons in a curvilinear quantum wire. <i>Journal of Experimental and Theoretical Physics</i> , 2003 , 96, 766-774	1.4	10
28	Theory of the vertical Hall effect in a dimensionally quantized system. <i>JETP Letters</i> , 2003 , 77, 493-496	1.2	
27	The distribution of equilibrium magnetization currents in systems with dimensional quantization in a finite magnetic field. <i>Journal of Experimental and Theoretical Physics</i> , 2003 , 97, 138-143	1	1
26	The surface energy of an electron gas in model crystals. <i>Journal of Experimental and Theoretical Physics</i> , 2003 , 97, 174-179	1	1
25	Optical and photoelectric properties of helical quantum wires. <i>JETP Letters</i> , 2003 , 78, 213-217	1.2	19
24	Friedel oscillations of a magnetic field penetrating into a normal metal and a size-quantized system. <i>JETP Letters</i> , 2002 , 75, 470-473	1.2	
23	In memory of Viktor Iosifovich Belinicher. <i>Physics-Uspekhi</i> , 2002 , 45, 101-102	2.8	
22	Electrons in a twisted quantum wire. <i>Physical Review B</i> , 2002 , 66,	3.3	39
21	Spin-plasmon oscillations of the two-dimensional electron gas. <i>Journal of Experimental and Theoretical Physics</i> , 2001 , 92, 153-158	1	34
20	Edge contribution to the electronic energy of cut microcrystals. <i>JETP Letters</i> , 2001 , 73, 149-151	1.2	
19	Spin response of 2D electrons to a lateral electric field. <i>Semiconductors</i> , 2001 , 35, 1081-1087	0.7	14
18	Spin-orbit interaction of electrons on a curved surface. <i>Physical Review B</i> , 2001 , 64,	3.3	83
17	Spin orientation of two-dimensional electrons in electric field. <i>JETP Letters</i> , 2000 , 72, 134-137	1.2	9
16	Quantum hall effect in an antidot lattice: Macroscopic limit. <i>Journal of Experimental and Theoretical Physics</i> , 2000 , 90, 646-654	1	1
15	Equilibrium charge of small metal particles and hopping transport in a metal-insulator composite. <i>JETP Letters</i> , 1999 , 70, 520-525	1.2	3

14	Hopping Mechanism of Coherent Photovoltaic Effect and Photoinduced Polar Anisotropy In Glass. 1999 , 191-202		0
13	Quantum corrections to the conductivity of a two-dimensional system with antidots. <i>Semiconductors</i> , 1998 , 32, 1304-1308	0.7	
12	High-frequency dielectric constant of a two-dimensionally disordered model medium. <i>Journal of Experimental and Theoretical Physics</i> , 1998 , 87, 365-368	1	1
11	Enhancement of the photovoltaic effect in a two-dimensionally disordered medium. <i>Semiconductors</i> , 1997 , 31, 829-830	0.7	
10	Relaxation of the optical density of glass modulated with bichromatic radiation. <i>JETP Letters</i> , 1996 , 63, 176-181	1.2	14
9	Scale invariance in percolation theory and fractals. <i>JETP Letters</i> , 1996 , 64, 467-472	1.2	6
8	The Photoexcited Flow of Nonequilibrium Phonons along a Crystal Surface. <i>Physica Status Solidi (B): Basic Research</i> , 1984 , 126, 487-493	1.3	1
7	Optical Orientation and Polarized Luminescence in Silicon. <i>Physica Status Solidi (B): Basic Research</i> , 1983 , 118, 63-72	1.3	4
6	Photogalvanic effect in crystal with dislocations. <i>Physica Status Solidi (B): Basic Research</i> , 1983 , 119, 473-481	1.3	1
5	Mechanism of conductivity of a Fe-doped LiNbO ₃ crystal. <i>Physica Status Solidi A</i> , 1980 , 59, K97-K102		8
4	Dynamic optical storage in LiNbO ₃ crystals. <i>Physica Status Solidi A</i> , 1978 , 45, K17-K22		4
3	Current quadratic in field and photogalvanic effect in crystals without inversion centre. <i>Physica Status Solidi (B): Basic Research</i> , 1977 , 83, K97-K100	1.3	16
2	Conductivity of Fe-doped LiNbO ₃ crystals. <i>Physica Status Solidi A</i> , 1977 , 44, K91-K94		9
1	Holographic storage in LiNbO ₃ crystal at high temperatures. <i>Physica Status Solidi A</i> , 1976 , 38, K139-K142		5