

Matvey Entin

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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	Spin-orbit interaction of electrons on a curved surface. <i>Physical Review B</i> , 2001 , 64,	3.3	83
84	Valley separation in graphene by polarized light. <i>Physical Review B</i> , 2011 , 84,	3.3	69
83	Electrons in a twisted quantum wire. <i>Physical Review B</i> , 2002 , 66,	3.3	39
82	Theory of resonant photon drag in monolayer graphene. <i>Physical Review B</i> , 2010 , 81,	3.3	38
81	Spin-plasmon oscillations of the two-dimensional electron gas. <i>Journal of Experimental and Theoretical Physics</i> , 2001 , 92, 153-158	1	34
80	Scattering processes in a two-dimensional semimetal. <i>JETP Letters</i> , 2009 , 89, 290-293	1.2	32
79	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
78	Photogalvanic current in artificial asymmetric nanostructures. <i>European Physical Journal B</i> , 2007 , 56, 323-333	1.2	28
77	Spectrum and kinetics of electrons in curved nanostructures. <i>Physics-Uspekhi</i> , 2005 , 48, 953-958	2.8	21
76	Ratchet transport of interacting particles. <i>Physical Review E</i> , 2008 , 78, 041127	2.4	19
75	Optical and photoelectric properties of helical quantum wires. <i>JETP Letters</i> , 2003 , 78, 213-217	1.2	19
74	Moving zero-gap Wannier-Mott excitons in graphene. <i>Europhysics Letters</i> , 2013 , 102, 37012	1.6	18
73	Photocurrent in nanostructures with asymmetric antidots: Exactly solvable model. <i>Physical Review B</i> , 2006 , 73,	3.3	18
72	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
71	Spin response of 2D electrons to a lateral electric field. <i>Semiconductors</i> , 2001 , 35, 1081-1087	0.7	14
70	Relaxation of the optical density of glass modulated with bichromatic radiation. <i>JETP Letters</i> , 1996 , 63, 176-181	1.2	14
69	Theory of one-dimensional double-barrier quantum pump in two-frequency signal regime. <i>Europhysics Letters</i> , 2007 , 77, 67002	1.6	13

68	Quantum mechanics of graphene with a one-dimensional potential. <i>Journal of Experimental and Theoretical Physics</i> , 2012 , 115, 694-705	1	12
67	Suppression of spin-orbit effects in a 1D system. <i>Europhysics Letters</i> , 2004 , 68, 853-859	1.6	12
66	Linearity of the edge states energy spectrum in the 2D topological insulator. <i>Europhysics Letters</i> , 2017 , 118, 57002	1.6	11
65	Electrons in a curvilinear quantum wire. <i>Journal of Experimental and Theoretical Physics</i> , 2003 , 96, 766-774	1	10
64	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
63	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
62	Spin orientation of two-dimensional electrons in electric field. <i>JETP Letters</i> , 2000 , 72, 134-137	1.2	9
61	Conductivity of Fe-doped LiNbO ₃ crystals. <i>Physica Status Solidi A</i> , 1977 , 44, K91-K94		9
60	Edge capacitance of a two-dimensional topological insulator. <i>Physical Review B</i> , 2017 , 96,	3.3	8
59	Mechanism of conductivity of a Fe-doped LiNbO ₃ crystal. <i>Physica Status Solidi A</i> , 1980 , 59, K97-K102		8
58	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
57	Photovoltage in curved one-dimensional systems. <i>Physical Review B</i> , 2009 , 79,	3.3	7
56	Photogalvanic current in electron gas over a liquid helium surface. <i>JETP Letters</i> , 2014 , 98, 816-822	1.2	6
55	Photogalvanic current in a parabolic well. <i>JETP Letters</i> , 2013 , 97, 639-643	1.2	6
54	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
53	Scale invariance in percolation theory and fractals. <i>JETP Letters</i> , 1996 , 64, 467-472	1.2	6
52	Moving gapless indirect excitons in monolayer graphene. <i>Nanoscale Research Letters</i> , 2012 , 7, 599	5	6
51	Edge absorption and circular photogalvanic effect in 2D topological insulator edges. <i>JETP Letters</i> , 2016 , 103, 711-716	1.2	6

50	Surface states in a HgTe quantum well and scattering by surface roughness. <i>JETP Letters</i> , 2015 , 101, 330-333	1.2	5
49	Edge states on the curved boundary of a 2D topological insulator. <i>Europhysics Letters</i> , 2017 , 120, 37003	1.6	5
48	High-frequency blockade in tight-binding one-dimensional lattice with single vibrating site. <i>Europhysics Letters</i> , 2008 , 84, 47008	1.6	5
47	Holographic storage in LiNbO ₃ crystal at high temperatures. <i>Physica Status Solidi A</i> , 1976 , 38, K139-K142		5
46	Mobility of Dirac electrons in HgTe quantum wells. <i>JETP Letters</i> , 2016 , 104, 388-391	1.2	5
45	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
44	Backscattering in a 2D topological insulator and the conductivity of a 2D strip. <i>JETP Letters</i> , 2015 , 100, 561-565	1.2	4
43	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
42	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
41	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
40	Coherent photogalvanic valley Hall effect. <i>JETP Letters</i> , 2017 , 106, 565-570	1.2	4
39	Photogalvanic current in a double quantum well. <i>JETP Letters</i> , 2013 , 98, 38-42	1.2	4
38	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
37	Optical Orientation and Polarized Luminescence in Silicon. <i>Physica Status Solidi (B): Basic Research</i> , 1983 , 118, 63-72	1.3	4
36	Dynamic optical storage in LiNbO ₃ crystals. <i>Physica Status Solidi A</i> , 1978 , 45, K17-K22		4
35	Thermopower of a Two-Dimensional Semimetal in a HgTe Quantum Well. <i>JETP Letters</i> , 2018 , 107, 789-793	1.2	4
34	Photogalvanic effect in monolayer transition metal dichalcogenides under double illumination. <i>Journal of Physics Condensed Matter</i> , 2019 , 31, 325302	1.8	3
33	Intervalley scattering by charged impurities in graphene. <i>JETP Letters</i> , 2015 , 101, 325-329	1.2	3

32	Exact solution for many-body Hamiltonian of interacting particles with linear spectrum. <i>Europhysics Letters</i> , 2017 , 120, 17003	1.6	3
31	Inductive current in a quantum ring. <i>JETP Letters</i> , 2004 , 80, 421-425	1.2	3
30	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
29	Localization of edge electrons in a 2D topological insulator strip. <i>JETP Letters</i> , 2015 , 100, 566-569	1.2	2
28	Edge excitons in a 2D topological insulator in a magnetic field. <i>JETP Letters</i> , 2016 , 103, 328-333	1.2	2
27	Photocurrent in a two-dimensional ribbon with the conic electron spectrum. <i>JETP Letters</i> , 2015 , 102, 599-602	1.2	2
26	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
25	Edge States and Capacitance of a 2D Topological Insulator. <i>Physica Status Solidi (B): Basic Research</i> , 2019 , 256, 1800675	1.3	1
24	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
23	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
22	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
21	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
20	The surface energy of an electron gas in model crystals. <i>Journal of Experimental and Theoretical Physics</i> , 2003 , 97, 174-179	1	1
19	Quantum hall effect in an antidot lattice: Macroscopic limit. <i>Journal of Experimental and Theoretical Physics</i> , 2000 , 90, 646-654	1	1
18	Photogalvanic effect in crystal with dislocations. <i>Physica Status Solidi (B): Basic Research</i> , 1983 , 119, 473-481	1.3	1
17	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
16	 <i>Journal of Experimental and Theoretical Physics Letters</i> , 2017 , 549-554	1.3	1
15	Optical amplification of photoinduced polarizability gratings in phosphate glasses. <i>JETP Letters</i> , 2004 , 80, 26-29	1.2	0

- 14 Hopping Mechanism of Coherent Photovoltaic Effect and Photoinduced Polar Anisotropy In Glass. **1999**, 191-202 0
- 13 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. *Low Temperature Physics*, **2021**, 47, 2-6 0.7 0
- 12 Is the Edge States Energy Spectrum of a 2D Topological Insulator Linear?. *Semiconductors*, **2018**, 52, 526-530 0.7
- 11 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. *JETP Letters*, **2019**, 109, 331-333 1.2
- 10 Enhancement of the photovoltaic effect in a two-dimensionally disordered medium. *Semiconductors*, **1997**, 31, 829-830 0.7
- 9 Quantum corrections to the conductivity of a two-dimensional system with antidots. *Semiconductors*, **1998**, 32, 1304-1308 0.7
- 8 DISTRIBUTION OF EQUILIBRIUM EDGE CURRENTS. *International Journal of Nanoscience*, **2003**, 02, 611-616 1.6
- 7 Friedel oscillations of a magnetic field penetrating into a normal metal and a size-quantized system. *JETP Letters*, **2002**, 75, 470-473 1.2
- 6 Theory of the vertical Hall effect in a dimensionally quantized system. *JETP Letters*, **2003**, 77, 493-496 1.2
- 5 Edge contribution to the electronic energy of cut microcrystals. *JETP Letters*, **2001**, 73, 149-151 1.2
- 4 In memory of Viktor Iosifovich Belinicher. *Physics-Uspekhi*, **2002**, 45, 101-102 2.8
- 3 Transport Properties of Two-Dimensional Topological Insulators and Excitonic Condensates. *Optoelectronics, Instrumentation and Data Processing*, **2020**, 56, 545-552 0.6
- 2 **HgTe** **QD** **QDs**. *Journal of Experimental and Theoretical Physics Letters*, **2018**, 814-818 1.3
- 1 Gapless Dirac Electron Mobility and Quantum Time in HgTe Quantum Wells. *Semiconductors*, **2018**, 52, 1468-1472 0.7