Oleg Makarovsky

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.

79
papers

3,720
citations

4,184
ext. papers

3,720
h-index

60
g-index

4.64
L-index

#	Paper	IF	Citations
79	Light-Induced Stark Effect and Reversible Photoluminescence Quenching in Inorganic Perovskite Nanocrystals. <i>Advanced Optical Materials</i> , 2021 , 9, 2100104	8.1	1
78	Inter-Flake Quantum Transport of Electrons and Holes in Inkjet-Printed Graphene Devices. <i>Advanced Functional Materials</i> , 2021 , 31, 2007478	15.6	13
77	Universal mobility characteristics of graphene originating from charge scattering by ionised impurities. <i>Communications Physics</i> , 2021 , 4,	5.4	16
76	Ferroelectric semiconductor junctions based on graphene/In2Se3/graphene van der Waals heterostructures. <i>2D Materials</i> , 2021 , 8, 045020	5.9	4
75	Enhanced Optical Emission from 2D InSe Bent onto Si-Pillars. <i>Advanced Optical Materials</i> , 2020 , 8, 2000	8281	10
74	The Interaction of Hydrogen with the van der Waals Crystal -InSe. <i>Molecules</i> , 2020 , 25,	4.8	8
73	Spin flop and crystalline anisotropic magnetoresistance in CuMnAs. <i>Physical Review B</i> , 2020 , 101,	3.3	15
72	Resonant tunnelling into the two-dimensional subbands of InSe layers. <i>Communications Physics</i> , 2020 , 3,	5.4	13
71	Van der Waals SnSe2(1☑)S2x Alloys: Composition-Dependent Bowing Coefficient and Electron Phonon Interaction. <i>Advanced Functional Materials</i> , 2020 , 30, 1908092	15.6	10
70	Defect-Assisted High Photoconductive UVIVisible Gain in Perovskite-Decorated Graphene Transistors. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 147-154	4	8
69	Room temperature upconversion electroluminescence from a mid-infrared In(AsN) tunneling diode. <i>Applied Physics Letters</i> , 2020 , 116, 142108	3.4	O
68	Tunneling in Graphene/h-BN/Graphene Heterostructures through Zero-Dimensional Levels of Defects in h-BN and Their Use as Probes to Measure the Density of States of Graphene. <i>JETP Letters</i> , 2019 , 109, 482-489	1.2	4
67	Photoquantum Hall Effect and Light-Induced Charge Transfer at the Interface of Graphene/InSe Heterostructures. <i>Advanced Functional Materials</i> , 2019 , 29, 1805491	15.6	13
66	Optical Detection and Spatial Modulation of Mid-Infrared Surface Plasmon Polaritons in a Highly Doped Semiconductor. <i>Advanced Optical Materials</i> , 2018 , 6, 1700492	8.1	2
65	Observation of Spin and Valley Splitting of Landau Levels under Magnetic Tunneling in Graphene/Boron Nitride/Graphene Structures. <i>JETP Letters</i> , 2018 , 107, 238-242	1.2	1
64	Tunnel spectroscopy of localised electronic states in hexagonal boron nitride. <i>Communications Physics</i> , 2018 , 1,	5.4	25
63	Room Temperature Uniaxial Magnetic Anisotropy Induced By Fe-Islands in the InSe Semiconductor Van Der Waals Crystal. <i>Advanced Science</i> , 2018 , 5, 1800257	13.6	5

(2014-2017)

62	Engineering p Ih junctions and bandgap tuning of InSe nanolayers by controlled oxidation. <i>2D Materials</i> , 2017 , 4, 025043	5.9	63
61	Mobility enhancement of CVD graphene by spatially correlated charges. 2D Materials, 2017, 4, 025026	5.9	5
60	Enhancing optoelectronic properties of SiC-grown graphene by a surface layer of colloidal quantum dots. <i>2D Materials</i> , 2017 , 4, 031001	5.9	4
59	Giant Quantum Hall Plateau in Graphene Coupled to an InSe van der Waals Crystal. <i>Physical Review Letters</i> , 2017 , 119, 157701	7.4	33
58	Phonon-Assisted Resonant Tunneling of Electrons in Graphene-Boron Nitride Transistors. <i>Physical Review Letters</i> , 2016 , 116, 186603	7.4	63
57	The direct-to-indirect band gap crossover in two-dimensional van der Waals Indium Selenide crystals. <i>Scientific Reports</i> , 2016 , 6, 39619	4.9	114
56	Highly-mismatched InAs/InSe heterojunction diodes. <i>Applied Physics Letters</i> , 2016 , 109, 182115	3.4	9
55	Quantum confinement and photoresponsivity of 🛭 In 2 Se 3 nanosheets grown by physical vapour transport. 2D Materials, 2016 , 3, 025030	5.9	68
54	Resonant Zener tunnelling via zero-dimensional states in a narrow gap diode. <i>Scientific Reports</i> , 2016 , 6, 32039	4.9	2
53	H-tailored surface conductivity in narrow band gap In(AsN). <i>Applied Physics Letters</i> , 2015 , 106, 022111	3.4	4
52	Resonant tunnelling between the chiral Landau states of twisted graphene lattices. <i>Nature Physics</i> , 2015 , 11, 1057-1062	16.2	49
51	Graphene-InSe-graphene van der Waals heterostructures. <i>Journal of Physics: Conference Series</i> , 2015 , 647, 012001	0.3	9
50	High broad-band photoresponsivity of mechanically formed InSe-graphene van der Waals heterostructures. <i>Advanced Materials</i> , 2015 , 27, 3760-6	24	252
49	Ligand-Induced Control of Photoconductive Gain and Doping in a Hybrid GrapheneQuantum Dot Transistor. <i>Advanced Electronic Materials</i> , 2015 , 1, 1500062	6.4	48
48	Impact ionization and large room-temperature magnetoresistance in micron-sized high-mobility InAs channels. <i>Physical Review B</i> , 2014 , 90,	3.3	5
47	Tunable spectral response by hydrogen irradiation of Ga(AsN) superlattice diodes. <i>Applied Physics Letters</i> , 2014 , 104, 242110	3.4	1
46	Twist-controlled resonant tunnelling in graphene/boron nitride/graphene heterostructures. <i>Nature Nanotechnology</i> , 2014 , 9, 808-13	28.7	341
45	Tuneable paramagnetic susceptibility and exciton g-factor in Mn-doped PbS colloidal nanocrystals. Nanoscale, 2014 , 6, 8919-25	7.7	21

44	Room Temperature Electroluminescence from Mechanically Formed van der Waals III V I Homojunctions and Heterojunctions. <i>Advanced Optical Materials</i> , 2014 , 2, 1064-1069	8.1	61
43	Quantum confined acceptors and donors in InSe nanosheets. <i>Applied Physics Letters</i> , 2014 , 105, 221909	3.4	53
42	Quantum oscillations in the photocurrent of GaAs/AlAs p-i-n diodes. <i>Physical Review B</i> , 2014 , 89,	3.3	9
41	Tuning the bandgap of exfoliated InSe nanosheets by quantum confinement. <i>Advanced Materials</i> , 2013 , 25, 5714-8	24	419
40	High Curie temperatures at low compensation in the ferromagnetic semiconductor (Ga,Mn)As. <i>Physical Review B</i> , 2013 , 87,	3.3	29
39	Suppression of electron magnetotunneling between parallel two-dimensional GaAs/InAs electron systems by the correlation interaction. <i>Semiconductors</i> , 2013 , 47, 1215-1218	0.7	
38	Vertical field-effect transistor based on graphene-WS2 heterostructures for flexible and transparent electronics. <i>Nature Nanotechnology</i> , 2013 , 8, 100-3	28.7	1342
37	Nonresonant hydrogen dopants in In(AsN): A route to high electron concentrations and mobilities. <i>Physical Review B</i> , 2013 , 87,	3.3	8
36	A micrometer-size movable light emitting area in a resonant tunneling light emitting diode. <i>Applied Physics Letters</i> , 2013 , 103, 241105	3.4	2
35	High magnetic field quantum transport in Au nanoparticle-cellulose films. <i>Nanotechnology</i> , 2012 , 23, 045702	3.4	8
34	Linear magnetoresistance due to multiple-electron scattering by low-mobility islands in an inhomogeneous conductor. <i>Nature Communications</i> , 2012 , 3, 1097	17.4	57
33	Controlling high-frequency collective electron dynamics via single-particle complexity. <i>Physical Review Letters</i> , 2012 , 109, 024102	7.4	25
32	Laser location and manipulation of a single quantum tunneling channel in an InAs quantum dot. <i>Physical Review Letters</i> , 2012 , 108, 117402	7.4	10
31	Band-gap profiling by laser writing of hydrogen-containing III-N-Vs. <i>Physical Review B</i> , 2012 , 86,	3.3	16
30	Nano-sized light emitting diodes by near field laser exposure. <i>Applied Physics Letters</i> , 2011 , 98, 183102	3.4	4
29	Laser writing of the electronic activity of N- and H-atoms in GaAs. <i>Applied Physics Letters</i> , 2011 , 99, 0211	1954	7
28	Electronic energy levels, wavefunctions and potential landscape of nanostructures probed by magneto-tunnelling spectroscopy. <i>Journal of Physics: Conference Series</i> , 2011 , 334, 012010	0.3	
27	TEM of Nano-LEDs made by laser writing. <i>Journal of Physics: Conference Series</i> , 2011 , 326, 012055	0.3	O

(2005-2011)

26	Imaging the photovoltaic response of PbS-sensitized porous titania. <i>Physica Status Solidi (A)</i> Applications and Materials Science, 2011 , 208, 2450-2453	1.6	2
25	Manipulating and imaging the shape of an electronic wave function by magnetotunneling spectroscopy. <i>Physical Review Letters</i> , 2010 , 105, 236804	7.4	16
24	Microscopic analysis of the valence band and impurity band theories of (Ga,Mn)As. <i>Physical Review Letters</i> , 2010 , 105, 227202	7.4	33
23	Hot electron transport and impact ionization in the narrow energy gap InAs1⊠Nx alloy. <i>Applied Physics Letters</i> , 2010 , 96, 052115	3.4	6
22	Using randomly distributed charges to create quantum dots. <i>Physical Review B</i> , 2010 , 81,	3.3	10
21	Photoluminescence of PbS nanocrystals at high magnetic fields up to 30 T. <i>Physical Review B</i> , 2010 , 82,	3.3	10
20	Nanoscale potential fluctuations in (GaMn)As/GaAs heterostructures: from individual ions to charge clusters and electrostatic quantum dots. <i>Nano Letters</i> , 2010 , 10, 4874-9	11.5	5
19	Self-Assembly of Electrically Conducting Biopolymer Thin Films by Cellulose Regeneration in Gold Nanoparticle Aqueous Dispersions. <i>Chemistry of Materials</i> , 2010 , 22, 2675-2680	9.6	33
18	Direct laser writing of nanoscale light-emitting diodes. <i>Advanced Materials</i> , 2010 , 22, 3176-80	24	14
17	Ultrafast acoustical gating of the photocurrent in a p l tunneling diode incorporating a quantum well. <i>Physical Review B</i> , 2009 , 80,	3.3	7
16	Effect of low nitrogen concentrations on the electronic properties of InAs1Nx. <i>Physical Review B</i> , 2009 , 80,	3.3	24
15	Large zero-field spin splitting in AlGaN/AlN/GaN/AlN heterostructures. <i>Journal of Applied Physics</i> , 2009 , 105, 093701	2.5	20
14	Sensitive detection of photoexcited carriers by resonant tunneling through a single quantum dot. <i>Physical Review B</i> , 2009 , 79,	3.3	8
13	Fock-Darwin-like quantum dot states formed by charged Mn interstitial ions. <i>Physical Review Letters</i> , 2008 , 101, 226807	7.4	17
12	Magnetoanisotropy of electron-correlation-enhanced tunneling through a quantum dot. <i>Physical Review B</i> , 2007 , 75,	3.3	19
11	Measuring the hole chemical potential in ferromagnetic Ga1\(\text{M}\)mxAs\(\text{GaAs}\) heterostructures by photoexcited resonant tunneling. <i>Applied Physics Letters</i> , 2007 , 90, 082106	3.4	12
10	Terahertz response of hot electrons in dilute nitride Ga(AsN) alloys. <i>Applied Physics Letters</i> , 2006 , 88, 032107	3.4	31
9	Hot-electrons and negative differential conductance in GaAs1⊠Nx. <i>Physical Review B</i> , 2005 , 72,	3.3	27

8 Quasiballistic transport of hot holes in GaAs submicron channels. *Applied Physics Letters*, **2005**, 86, 0421014 1

7	Electron conduction in two-dimensional GaAs1JJNy channels. <i>Physical Review B</i> , 2004 , 69,	3.3	30
6	Resonance and current instabilities in AlN/GaN resonant tunnelling diodes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2004 , 21, 752-755	3	15
5	Magnetoresistance of Si(001) MOSFETs with high concentration of electrons. <i>Physica E:</i> Low-Dimensional Systems and Nanostructures, 2004 , 22, 320-323	3	1
4	Comment on Aln/GaN double-barrier resonant tunneling diodes grown by rf-plasma-assisted molecular-beam epitaxy[[Appl. Phys. Lett. 81, 1729 (2002)]. <i>Applied Physics Letters</i> , 2003 , 83, 3626-3627	3.4	35
3	CurrentMoltage instabilities in GaN/AlGaN resonant tunnelling structures. <i>Physica Status Solidi C:</i> Current Topics in Solid State Physics, 2003 , 2389-2392		47
2	Nonlinear hole transport through a submicron-size channel. <i>Applied Physics Letters</i> , 2003 , 82, 925-927	3.4	1
1	Quantum Hall effect breakdown: can the bootstrap heating and inter-Landau-level scattering models be reconciled?. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2002 , 12, 178-181	3	6