

# Yurii E Lozovik

## 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.

262  
papers

5,229  
citations

39  
h-index

60  
g-index

301  
ext. papers

5,794  
ext. citations

2.6  
avg, IF

5.95  
L-index

#	Paper	IF	Citations
262	Exact Analytical Solution for the Density Matrix of a Nonequilibrium Polariton Bose-Einstein Condensate.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 065301	7.4	2
261	Strain-induced quantum Hall phenomena of excitons in graphene.. <i>Scientific Reports</i> , <b>2022</b> , 12, 2950	4.9	0
260	Anomalous Josephson Effect of s-Wave Pairing States in Chiral Double Layers.. <i>Physical Review Letters</i> , <b>2022</b> , 128, 157001	7.4	0
259	Plasmonic modes at inclined edges of anisotropic two-dimensional materials. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	1
258	Crystal phases of charged interlayer excitons in van der Waals heterostructures. <i>Communications Physics</i> , <b>2021</b> , 4,	5.4	4
257	Universal lasing condition. <i>Scientific Reports</i> , <b>2021</b> , 11, 4197	4.9	1
256	Long-range atomic correlations as a source of coherent light generation. <i>Optics Letters</i> , <b>2021</b> , 46, 5292-5295		
255	Exceptional Points as Lasing Prethresholds. <i>Laser and Photonics Reviews</i> , <b>2021</b> , 15, 2000450	8.3	7
254	Pairing transition in a double layer with interlayer Coulomb repulsion. <i>Physical Review Research</i> , <b>2020</b> , 2,	3.9	1
253	Virial theorem, boundary conditions, and pressure for massless Dirac electrons. <i>Annals of Physics</i> , <b>2020</b> , 412, 168001	2.5	0
252	Graphene membrane-based NEMS for study of interface interaction. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2020</b> , 115, 113645	3	3
251	Edge magnetoplasmons in graphene: Effects of gate screening and dissipation. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	5
250	Fluctuations and photon statistics in a quantum metamaterial near a superradiant transition. <i>Physical Review A</i> , <b>2019</b> , 99,	2.6	3
249	Radiation trapping effect versus superradiance in quantum simulation of light-matter interaction. <i>Laser Physics Letters</i> , <b>2019</b> , 16, 065205	1.5	1
248	Anisotropic Superfluidity in a Weakly Interacting Condensate of Quasi-2D Photons. <i>Annalen Der Physik</i> , <b>2019</b> , 531, 1800431	2.6	
247	Electron-Phonon Interaction, Phonon and Electronic Structures of Layered Electride Ca <sub>2</sub> N. <i>JETP Letters</i> , <b>2019</b> , 109, 606-609	1.2	
246	Quantum plateaus in dynamical Hall conductivity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2019</b> , 111, 148-151	3	0

245	Optical probing in a bilayer dark-bright condensate system. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	3
244	Spin Hall effect for polaritons in a transition metal dichalcogenide embedded in a microcavity. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	1
243	Electron-hole superfluidity controlled by a periodic potential. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	1
242	Hyperbolic hybrid waves and optical topological transitions in few-layer anisotropic metasurfaces. <i>Physical Review B</i> , <b>2019</b> , 100,	3.3	24
241	Second-order coherence properties of amplified spontaneous emission. <i>Optics Express</i> , <b>2019</b> , 27, 10991-11005	3.5	16
240	Formation of positive feedback and coherent emission in a cavity-free system. <i>Optics Express</i> , <b>2019</b> , 27, 35376-35384	3.3	4
239	Many-body filling factor dependent renormalization of Fermi velocity in graphene in strong magnetic field. <i>Physical Review B</i> , <b>2019</b> , 99,	3.3	2
238	Quantum communication protocols as a benchmark for programmable quantum computers. <i>Quantum Information Processing</i> , <b>2019</b> , 18, 1	1.6	10
237	Effects of Energy Dissipation on the Parametric Excitation of a Coupled Qubit-Cavity System. <i>Journal of Low Temperature Physics</i> , <b>2018</b> , 191, 365-372	1.3	1
236	Plasmons in Chains of Spherical Nanoparticles with the Account of All Pairwise Interactions. <i>Journal of Communications Technology and Electronics</i> , <b>2018</b> , 63, 189-197	0.5	2
235	Many-body renormalization of Landau levels in graphene due to screened Coulomb interaction. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	2
234	Polariton Bose condensate in an open system: Ab initio approach. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	3
233	Strain-induced pseudomagnetic and scalar fields in symmetry-enforced Dirac nodes. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2018</b> , 459, 43-45	2.8	1
232	Nonlinear elastic properties of the polycrystalline refractory metals at Megabar pressures: Theoretical approach. <i>Materials and Design</i> , <b>2018</b> , 139, 1-6	8.1	1
231	The Inverse-Square Interaction Phase Diagram: Unitarity in the Bosonic Ground State. <i>Crystals</i> , <b>2018</b> , 8, 246	2.3	
230	Absorption sensor based on graphene plasmon quantum amplifier. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	9
229	Dispersion relations for plasmons in complex-shaped nanoparticle chains. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	6
228	Structure and energetics of carbon, hexagonal boron nitride, and carbon/hexagonal boron nitride single-layer and bilayer nanoscrolls. <i>Physical Review Materials</i> , <b>2018</b> , 2,	3.2	22

227	New effects in and control of exciton systems in quasi-two-dimensional structures. <i>Physics-Uspekhi</i> , <b>2018</b> , 61, 1094-1099	2.8	5
226	On the Position-Dependent Effective Mass in Bose Condensates of Photons and Polaritons in an Optical Microcavity Trap. <i>JETP Letters</i> , <b>2018</b> , 108, 791-795	1.2	2
225	Giant tunable nonreciprocity of light in Weyl semimetals. <i>Physical Review B</i> , <b>2018</b> , 98,	3.3	50
224	Analog/Digital Quantum Simulation of the Dicke Model with Superconducting Circuits. <i>JETP Letters</i> , <b>2018</b> , 108, 748-753	1.2	1
223	Bose Condensation of Long-Living Direct Excitons in an Off-Resonant Cavity. <i>Physical Review Letters</i> , <b>2018</b> , 121, 235702	7.4	2
222	Superconducting Qubit Systems as a Platform for Studying Effects of Nonstationary Electrodynamics in a Cavity. <i>JETP Letters</i> , <b>2018</b> , 108, 63-70	1.2	2
221	Algorithmic simulation of far-from-equilibrium dynamics using quantum computer. <i>Quantum Information Processing</i> , <b>2018</b> , 17, 1	1.6	30
220	On transmittance and localization of the electromagnetic wave in two-dimensional graphene-based photonic crystals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2018</b> , 382, 2075-2080 <sup>2-3</sup>	2.3	10
219	Superconducting qubit in a nonstationary transmission line cavity: Parametric excitation, periodic pumping, and energy dissipation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2017</b> , 381, 592-596	2.3	7
218	Many-body effects of Coulomb interaction on Landau levels in graphene. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	11
217	Entanglement in a quantum neural network based on quantum dots. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , <b>2017</b> , 24, 24-28	2.6	6
216	Sensitive linear response of an electron-hole superfluid in a periodic potential. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2017</b> , 92, 1-6	3	1
215	FDTD subcell graphene model beyond the thin-film approximation. <i>Applied Physics A: Materials Science and Processing</i> , <b>2017</b> , 123, 1	2.6	2
214	Composite Boson Description of a Low-Density Gas of Excitons. <i>Journal of Low Temperature Physics</i> , <b>2017</b> , 189, 300-311	1.3	1
213	The Scattering of Massive Holes by Supercritical Impurity. <i>Journal of Physics: Conference Series</i> , <b>2017</b> , 941, 012048	0.3	
212	The energy characteristics and structure of carbon nanoscrolls. <i>Technical Physics Letters</i> , <b>2017</b> , 43, 662-665		3
211	Dynamics of a mesoscopic qubit ensemble coupled to a cavity: Role of collective dark states. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	6
210	Strong twisting of light with hyperbolic metasurfaces <b>2017</b> ,		1

209	Enhanced optical activity in hyperbolic metasurfaces. <i>Physical Review B</i> , <b>2017</b> , 96,	3.3	29
208	Parametrically driven hybrid qubit-photon systems: Dissipation-induced quantum entanglement and photon production from vacuum. <i>Physical Review A</i> , <b>2017</b> , 96,	2.6	9
207	Anisotropic superfluidity of two-dimensional excitons in a periodic potential. <i>Physical Review B</i> , <b>2017</b> , 95,	3.3	4
206	Coulomb Problem for $Z > Z_{cr}$ in Doped Graphene. <i>Journal of Experimental and Theoretical Physics</i> , <b>2017</b> , 125, 1144-1162	1	4
205	Internal Structure of Vortices in a Two-Component Exciton-Polariton Condensate. <i>JETP Letters</i> , <b>2017</b> , 106, 754-759	1.2	2
204	On Bose-Einstein condensation and superfluidity of trapped photons with coordinate-dependent mass and interactions. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2017</b> , 34, 1649	1.7	6
203	Decoherence and Entanglement Simulation in a Model of Quantum Neural Network Based on Quantum Dots. <i>EPJ Web of Conferences</i> , <b>2016</b> , 108, 02006	0.3	1
202	Non-trivial regimes of a polariton Rabi oscillator <b>2016</b> ,		1
201	Self-consistent description of graphene quantum amplifier. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	3
200	Dynamical Lamb effect versus dissipation in superconducting quantum circuits. <i>Physical Review A</i> , <b>2016</b> , 93,	2.6	16
199	Generalized virial theorem for massless electrons in graphene and other Dirac materials. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	2
198	Dielectric response and novel electromagnetic modes in three-dimensional Dirac semimetal films. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	155
197	Inverted pendulum state of a polariton Rabi oscillator. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	4
196	Coupled exciton-photon Bose condensate in path integral formalism. <i>Physical Review B</i> , <b>2016</b> , 93,	3.3	9
195	Quantum entanglement for two qubits in a nonstationary cavity. <i>Physical Review A</i> , <b>2016</b> , 94,	2.6	7
194	Spontaneous Coherence Effects in Quantum Dots and Quantum Wells Placed in Microcavities. <i>EPJ Web of Conferences</i> , <b>2016</b> , 108, 02031	0.3	
193	Topological Phase and Half-Integer Orbital Angular Momenta in Circular Quantum Dots. <i>Few-Body Systems</i> , <b>2016</b> , 57, 1103-1126	1.6	3
192	Towards a feasible implementation of quantum neural networks using quantum dots. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 103108	3.4	17

191	Large diffusion lengths of excitons in perovskite and TiO <sub>2</sub> heterojunction. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 051109	3.4	13
190	Higher-order elastic constants and megabar pressure effects of bcc tungsten: Ab initio calculations. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	14
189	Strain-induced pseudomagnetic field in the Dirac semimetal borophene. <i>Physical Review B</i> , <b>2016</b> , 94,	3.3	76
188	Graphene intracavity spaser absorption spectroscopy. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , <b>2016</b> , 21, 60-66	2.6	2
187	Multi-layer graphene membrane based memory cell. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2016</b> , 84, 348-353	3	4
186	Tunneling conductance of telescopic contacts between graphene layers with and without dielectric spacer. <i>Computational Materials Science</i> , <b>2015</b> , 109, 240-247	3.2	7
185	Internal Josephson phenomena in a coupled two-component Bose condensate. <i>Superlattices and Microstructures</i> , <b>2015</b> , 87, 12-18	2.8	4
184	Dynamical Lamb effect in a tunable superconducting qubit-cavity system. <i>Physical Review A</i> , <b>2015</b> , 91,	2.6	25
183	Coulomb problem for graphene with the gapped electron spectrum. <i>JETP Letters</i> , <b>2015</b> , 101, 264-270	1.2	13
182	Graphene-Based Photonics and Plasmonics. <i>Nanostructure Science and Technology</i> , <b>2015</b> , 93-126	0.9	2
181	Detuning-Controlled Internal Oscillations in an Exciton-Polariton Condensate. <i>Physical Review Letters</i> , <b>2015</b> , 115, 186402	7.4	22
180	Coulomb problem for a $Z > Z_{\text{cr}}$ nucleus. <i>Physics-Uspexhi</i> , <b>2015</b> , 58, 785-791	2.8	28
179	Dynamical Lamb Effect: Prediction and Possibility of Experimental Detection. <i>EPJ Web of Conferences</i> , <b>2015</b> , 103, 01009	0.3	
178	Quantum capacitance and compressibility of graphene: The role of Coulomb interactions. <i>Physical Review B</i> , <b>2015</b> , 91,	3.3	12
177	Spaser spectroscopy with subwavelength spatial resolution. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2014</b> , 378, 723-727	2.3	13
176	Roton-maxon spectrum and instability for weakly interacting dipolar excitons in a semiconductor layer. <i>Physical Review B</i> , <b>2014</b> , 90,	3.3	12
175	Two-dimensional Bose gas of tilted dipoles: Roton instability and condensate depletion. <i>Physical Review A</i> , <b>2014</b> , 90,	2.6	18
174	Force and magnetic field sensor based on measurement of tunneling conductance between ends of coaxial carbon nanotubes. <i>Computational Materials Science</i> , <b>2014</b> , 92, 84-91	3.2	8

173	Highly sensitive spectroscopy based on a surface plasmon polariton quantum generator. <i>Laser Physics Letters</i> , <b>2014</b> , 11, 125701	1.5	10
172	Ab initio study of edge effect on relative motion of walls in carbon nanotubes. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 024703	3.9	21
171	Resonant manifestations of chiral excitons in Faraday and Kerr effects in a topological insulator film. <i>Physical Review B</i> , <b>2013</b> , 87,	3.3	23
170	Structure, Energetic and Tribological Properties, and Possible Applications in Nanoelectromechanical Systems of Argon-Separated Double-Layer Graphene. <i>Journal of Physical Chemistry C</i> , <b>2013</b> , 117, 11428-11435	3.8	6
169	Graphene nanoribbon based spaser. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	21
168	Ultrahigh refractive index sensitivity of TE-polarized electromagnetic waves in graphene at the interface between two dielectric media. <i>Optics Express</i> , <b>2013</b> , 21, 13533-46	3.3	38
167	Surface plasmon polaritons and optical transmission through a vortex lattice in a film of type-II superconductor. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2013</b> , 30, 909	1.7	1
166	AA stacking, tribological and electronic properties of double-layer graphene with krypton spacer. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 154705	3.9	15
165	Fluctuational internal Josephson effect in a topological insulator film. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	4
164	Drag effect and Cooper electron-hole pair fluctuations in a topological insulator film. <i>Physical Review B</i> , <b>2013</b> , 88,	3.3	9
163	TUNNELING CURRENT BETWEEN GRAPHENE LAYERS <b>2013</b> ,		1
162	Graphene-Based Nanodynamometer. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2013</b> , 10, 141-146	0.3	12
161	Roton Instability and Phonon Collapse of Two-dimensional Tilted Dipoles. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 414, 012036	0.3	3
160	Barriers to motion and rotation of graphene layers based on measurements of shear mode frequencies. <i>Chemical Physics Letters</i> , <b>2012</b> , 536, 82-86	2.5	36
159	Modeling of graphene-based NEMS. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , <b>2012</b> , 44, 949-954	3	37
158	Using metallic photonic crystals as visible light sources. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	13
157	Excitons in cores of exciton-polariton vortices. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	15
156	Plasmonics and magnetoplasmonics based on graphene and a topological insulator. <i>Physics-Uspekhi</i> , <b>2012</b> , 55, 1035-1039	2.8	13

155	Cavity Plasmon Polaritons in Monolayer and Double-Layer Graphene. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2012</b> , 20, 563-568	1.8	2
154	Operating Characteristics of Nanotube-Based Bolt/Nut Pairs for Nanoelectromechanical System. <i>Journal of Computational and Theoretical Nanoscience</i> , <b>2012</b> , 9, 673-680	0.3	2
153	Electron-hole pairing in a topological insulator thin film. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	41
152	Condensation of electron-hole pairs in a two-layer graphene system: Correlation effects. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	66
151	Spin-plasmons in topological insulator. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2012</b> , 324, 3610-3618		15
150	Can barrier to relative sliding of carbon nanotube walls be measured?. <i>Computational Materials Science</i> , <b>2012</b> , 53, 67-74	3.2	5
149	Influence of Landau level mixing on the properties of elementary excitations in graphene in strong magnetic field. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 134	5	21
148	Collective excitations on a surface of topological insulator. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 163	5	39
147	Nano and Giga Challenges in Electronics Photonics and Renewable Energy (NGC2011) Moscow-Zelenograd, Russia, September 12-16, 2011. <i>Nanoscale Research Letters</i> , <b>2012</b> , 7, 326	5	
146	Structural phase transition and band gap of uniaxially deformed (6, 0) carbon nanotube. <i>Chemical Physics Letters</i> , <b>2012</b> , 545, 71-77	2.5	16
145	Plasmonics and magnetoplasmonics based on graphene and a topological insulator. <i>Uspekhi Fizicheskikh Nauk</i> , <b>2012</b> , 182, 1111-1116	0.5	1
144	Coupled condensates of excitons and photons in the trap. <i>Journal of Nanophotonics</i> , <b>2012</b> , 6, 061802	1.1	5
143	Theoretical limit of localized surface plasmon resonance sensitivity to local refractive index change and its comparison to conventional surface plasmon resonance sensor. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2012</b> , 29, 994-1002	1.8	71
142	Turbulence in a Bose-Einstein condensate of dipolar excitons in coupled quantum wells. <i>Physical Review B</i> , <b>2012</b> , 86,	3.3	11
141	Nonuniform Electron-Hole Pairing in Graphene Bilayer. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2012</b> , 20, 569-573	1.8	1
140	Coulomb problem on single- and double-wall cylinders. <i>Journal of Physics Condensed Matter</i> , <b>2012</b> , 24, 255301	1.8	1
139	Collective excitonic and plasmonic excitations on a surface of 3D topological insulator. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 393, 012016	0.3	1
138	Enhancement of tunnel conductivity by Cooper pair fluctuations in electron-hole bilayer. <i>Journal of Physics: Conference Series</i> , <b>2012</b> , 393, 012019	0.3	



137	Study of Interaction Between Graphene Layers: Fast Diffusion of Graphene Flake and Commensurate-Incommensurate Phase Transition. <i>Carbon Nanostructures</i> , <b>2012</b> , 177-180	0.6	
136	Diffusion and drift of graphene flake on graphite surface. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 104505	3.9	37
135	Minimizing light reflection from dielectric textured surfaces. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2011</b> , 28, 770-7	1.8	109
134	Phase diagram of Rydberg atoms with repulsive van der Waals interaction. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	9
133	Influence of disorder on electron-hole pairing in graphene bilayer. <i>JETP Letters</i> , <b>2011</b> , 93, 219-222	1.2	12
132	Bose-Einstein condensate of cavity exciton polaritons in a trap. <i>JETP Letters</i> , <b>2011</b> , 93, 580-584	1.2	2
131	Molecular dynamics simulation of the self-retracting motion of a graphene flake. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	31
130	Anomalous transmission of electromagnetic wave through periodic arrays of subwavelength slits arranged on thin metal films. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , <b>2011</b> , 110, 119-123	0.7	0
129	Electronic excitations and transport in aperiodic sequences of quantum dots in external electric and magnetic fields. <i>Journal of Experimental and Theoretical Physics</i> , <b>2011</b> , 113, 692-697	1	
128	Electron-hole pairing with nonzero momentum in a graphene bilayer. <i>Journal of Experimental and Theoretical Physics</i> , <b>2011</b> , 113, 880-886	1	12
127	Drag effect of electrons in a system of two graphene layers. <i>Journal of Experimental and Theoretical Physics</i> , <b>2011</b> , 113, 1050-1056	1	1
126	Role of surface plasmon polaritons in anomalous transmission of an electromagnetic wave through two arrays with subwavelength slits. <i>Physics of the Solid State</i> , <b>2011</b> , 53, 804-809	0.8	1
125	Spatial condensation of trapped polaritons in graphene and semiconductor structures. <i>Superlattices and Microstructures</i> , <b>2011</b> , 49, 331-336	2.8	1
124	Effect of Peierls transition in armchair carbon nanotube on dynamical behaviour of encapsulated fullerene. <i>Nanoscale Research Letters</i> , <b>2011</b> , 6, 216	5	7
123	Interlayer interaction and relative vibrations of bilayer graphene. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 5687-95	3.6	125
122	Cavity plasmon polaritons in monolayer graphene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2011</b> , 375, 2573-2576	2.3	11
121	Mesoscopic supersolid of dipoles in a trap. <i>Physical Review A</i> , <b>2011</b> , 84,	2.6	16
120	Commensurate-incommensurate phase transition in bilayer graphene. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	63

119	Magnetically operated nanorelay based on two single-walled carbon nanotubes filled with endofullerenes Fe@C20. <i>Journal of Nanophotonics</i> , <b>2010</b> , 4, 041675	1.1	12
118	Drag effects in a system of electrons and microcavity polaritons. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	18
117	Low-dimensional weakly interacting Bose gases: Nonuniversal equations of state. <i>Physical Review A</i> , <b>2010</b> , 81,	2.6	19
116	Quasiequilibrium supersolid phase of a two-dimensional dipolar crystal. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	15
115	Bose-Einstein condensation and superfluidity of trapped polaritons in graphene and quantum wells embedded in a microcavity. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2010</b> , 368, 5459-82	3	5
114	Aperiodic arrays of quantum dots: Influence of external magnetic and electric fields. <i>Journal of Physics: Conference Series</i> , <b>2010</b> , 226, 012028	0.3	1
113	Electron-electron and electron-hole pairing in graphene structures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2010</b> , 368, 5417-29	3	19
112	Antireflective properties of pyramidally textured surfaces. <i>Optics Letters</i> , <b>2010</b> , 35, 106-8	3	23
111	Nanotube-based nanoelectromechanical systems: Control versus thermodynamic fluctuations. <i>Physical Review B</i> , <b>2010</b> , 81,	3.3	17
110	Nanoresonator Based on Relative Vibrations of the Walls of Carbon Nanotubes. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , <b>2010</b> , 18, 523-530	1.8	8
109	High frequency electromechanical memory cells based on telescoping carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2010</b> , 10, 4322-8	1.3	0
108	Theory of superconductivity for Dirac electrons in graphene. <i>Journal of Experimental and Theoretical Physics</i> , <b>2010</b> , 110, 49-57	1	7
107	An optical analog of the Borrmann effect in photonic crystals. <i>Journal of Experimental and Theoretical Physics</i> , <b>2010</b> , 110, 604-612	1	1
106	Magic numbers in the melting of a cluster of point charges on a sphere. <i>Journal of Experimental and Theoretical Physics</i> , <b>2010</b> , 111, 844-856	1	0
105	Light passage through a film with subwavelength slits. <i>Bulletin of the Lebedev Physics Institute</i> , <b>2010</b> , 37, 309-310	0.5	
104	Multiscale computer design of photonic crystal based materials for optical chemosensors. <i>Nanotechnologies in Russia</i> , <b>2010</b> , 5, 250-258	0.6	5
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102	Bose-Einstein condensation of quasiparticles in graphene. <i>Nanotechnology</i> , <b>2010</b> , 21, 134019	3.4	7

101	Fast diffusion of a graphene flake on a graphene layer. <i>Physical Review B</i> , <b>2010</b> , 82,	3.3	72
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85	Inverse Borrmann effect in photonic crystals. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	18
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