

Mikhail B Belonenko

List of Publications by Citations

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199
papers

700
citations

12
h-index

18
g-index

217
ext. papers

757
ext. citations

1
avg, IF

4.17
L-index

#	Paper	IF	Citations
199	Electromagnetic solitons in a system of carbon nanotubes. <i>Journal of Russian Laser Research</i> , 2006 , 27, 457-465	0.7	66
198	Three-dimensional electromagnetic breathers in carbon nanotubes with the field inhomogeneity along their axes. <i>Journal of Applied Physics</i> , 2013 , 114, 143106	2.5	49
197	Two-dimensional light bullets in an array of carbon nanotubes. <i>JETP Letters</i> , 2010 , 91, 461-465	1.2	33
196	Effect of an AC electric field on the conductance of single-wall semiconductor-type carbon nanotubes. <i>Semiconductors</i> , 2010 , 44, 1211-1216	0.7	18
195	Collisions of three-dimensional bipolar optical solitons in an array of carbon nanotubes. <i>Physical Review A</i> , 2016 , 94,	2.6	17
194	Amplification of ultimately-short pulses in graphene in the presence of a high-frequency field. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2010 , 108, 618-623	0.7	16
193	Extremely short optical pulse in a system of nanotubes with adsorbed hydrogen. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2011 , 375, 946-952	2.3	15
192	Two-dimensional extremely short electromagnetic pulses in a Bragg medium with carbon nanotubes. <i>European Physical Journal D</i> , 2015 , 69, 1	1.3	14
191	Interaction of a two-dimensional electromagnetic pulse with an electron inhomogeneity in an array of carbon nanotubes in the presence of field inhomogeneity. <i>European Physical Journal D</i> , 2015 , 69, 1	1.3	14
190	Interaction of a two-dimensional electromagnetic breather with an electron inhomogeneity in an array of carbon nanotubes. <i>Journal of Applied Physics</i> , 2014 , 115, 203109	2.5	14
189	Two-dimensional nonlinear electromagnetic waves in a carbon nanotube array. <i>Physics of the Solid State</i> , 2009 , 51, 1758-1764	0.8	14
188	Dynamics of laser bullet propagation in carbon nanotube array with metal inhomogeneities. <i>Technical Physics Letters</i> , 2011 , 37, 119-122	0.7	12
187	Extremely short electromagnetic pulses in an array of carbon nanotubes with a longitudinal field inhomogeneity. <i>Physics of the Solid State</i> , 2013 , 55, 1333-1339	0.8	11
186	2D electromagnetic breathers in carbon nanotubes. <i>European Physical Journal D</i> , 2012 , 66, 1	1.3	11
185	EXTREMELY SHORT OPTICAL PULSES IN CARBON NANOTUBES IN DISPERSIVE NONMAGNETIC DIELECTRIC MEDIA. <i>International Journal of Modern Physics B</i> , 2011 , 25, 3401-3408	1.1	11
184	Propagation of three-dimensional bipolar ultrashort electromagnetic pulses in an inhomogeneous array of carbon nanotubes. <i>Physical Review A</i> , 2018 , 97,	2.6	10
183	Light bullet passing an array of carbon nanotubes with metallic mesh irregularities. <i>European Physical Journal D</i> , 2011 , 65, 635-640	1.3	10

182	Electromagnetic solitons in a system of graphene planes with Anderson impurities. <i>Journal of Russian Laser Research</i> , 2009 , 30, 101-108	0.7	10
181	Periodic current domains in bundles of carbon nanotubes. <i>Technical Physics</i> , 2008 , 53, 817-823	0.5	10
180	Free electromagnetic radiation from the graphene monolayer with spatially modulated conductivity in THz range. <i>Modern Physics Letters B</i> , 2016 , 30, 1650185	1.6	9
179	Three-dimensional light bullets in a Bragg medium with carbon nanotubes. <i>Applied Physics B: Lasers and Optics</i> , 2017 , 123, 1	1.9	9
178	Ultimately short optical pulses in carbon nanotubes in dispersive nonmagnetic dielectric media. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2011 , 111, 85-90	0.7	9
177	Two-dimensional electromagnetic breathers in an array of nanotubes with multilevel impurities. <i>Russian Journal of Physical Chemistry B</i> , 2014 , 8, 409-415	1.2	8
176	Influence of multi-level impurities on the dynamics of ultrashort electromagnetic pulses in carbon nanotubes. <i>Europhysics Letters</i> , 2014 , 106, 37005	1.6	8
175	PROPAGATION OF LASER BEAMS IN AN ARRAY OF SEMICONDUCTOR CARBON NANOTUBES. <i>Modern Physics Letters B</i> , 2013 , 27, 1350045	1.6	8
174	Asymptotic dynamics of three-dimensional bipolar ultrashort electromagnetic pulses in an array of semiconductor carbon nanotubes. <i>Optics Express</i> , 2019 , 27, 27592-27609	3.3	8
173	Ultrashort pulses in a Bragg medium with carbon nanotubes. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2014 , 78, 1333-1335	0.4	7
172	Ultrashort pulse propagation in carbon nanotubes in a magnetic field. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011 , 75, 1623-1625	0.4	7
171	Influence of constant electric field on generation of higher harmonics in semiconductor carbon nanotubes. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2010 , 108, 774-779	0.7	7
170	Three-dimensional ultrashort optical Airy beams in an inhomogeneous medium with carbon nanotubes. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017 , 381, 931-934	2.3	6
169	On the electronic spectrum in curved graphene nanoribbons. <i>JETP Letters</i> , 2013 , 97, 400-403	1.2	6
168	Effect of the intrinsic nonlinearity on the propagation of ultrashort optical pulses in carbon nanotubes in dispersive nonmagnetic dielectric media. <i>Technical Physics</i> , 2013 , 58, 621-624	0.5	6
167	Dynamics of ultimately short electromagnetic pulses in silicene waveguides. <i>Technical Physics Letters</i> , 2013 , 39, 579-581	0.7	6
166	The effect of proper nonlinearity of the medium on the propagation of ultimately short pulses in an array of carbon nanotubes. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2013 , 114, 157-160	0.7	6
165	Solitons in a system of coupled graphene waveguides. <i>Physics of the Solid State</i> , 2012 , 54, 174-177	0.8	6

164	Tunneling through the carbon nanotube/graphene interface exposed to a strong oscillating electric field. <i>Journal of Nanophotonics</i> , 2010 , 4, 041670	1.1	6
163	Ultrashort optical pulses in carbon nanotubes and graphene with periodic impurities. <i>Physics of the Solid State</i> , 2010 , 52, 1780-1786	0.8	6
162	Soliton antiferromagnetic lattice in carbon nanotubes. <i>Russian Journal of Physical Chemistry B</i> , 2008 , 2, 964-968	1.2	6
161	Peculiarities of the propagation of multidimensional extremely short optical pulses in germanene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016 , 380, 3117-3120	2.3	5
160	Electrical conductivity and diffusion coefficient of electrons in a graphene bilayer. <i>Technical Physics</i> , 2012 , 57, 1025-1029	0.5	5
159	Discrete solitons in Bragg environment with carbon nanotubes. <i>Modern Physics Letters B</i> , 2015 , 29, 1550041	0.4	5
158	Magnetic field effect on ultra short pulse propagation in system of carbon nanotubes. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2011 , 110, 557-561	0.7	5
157	Nonlinear conductivity of single-walled zigzag carbon nanotubes. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2009 , 73, 1601-1604	0.4	5
156	Two-qubit cells made of boron nitride nanotubes for a quantum computer. <i>Technical Physics</i> , 2009 , 54, 338-342	0.5	5
155	Kinetic equations for Ising magnet in a parallel alternating field. <i>Theoretical and Mathematical Physics(Russian Federation)</i> , 1991 , 88, 747-754	0.7	5
154	A Two-Dimensional Extremely Short Optical Pulse in a System of Carbon Nanotubes in a Direct Current Electric Field. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2016 , 120, 434-439	0.7	5
153	Stabilization of ultrashort pulses by external pumping in an array of carbon nanotubes subject to piezoelectric effects. <i>Journal of Applied Physics</i> , 2019 , 126, 203103	2.5	5
152	Zitterbewegung in curved graphene. <i>Physica B: Condensed Matter</i> , 2015 , 456, 115-117	2.8	4
151	Dynamics of ultimately short electromagnetic pulses in chiral carbon nanotubes. <i>Physics of the Solid State</i> , 2013 , 55, 2124-2127	0.8	4
150	Effect of an electric field on the transport and diffusion properties of bilayer graphene ribbons. <i>Physica Scripta</i> , 2013 , 87, 015602	2.6	4
149	Propagation of extremely short pulses in a grapheneBoron nitride bilayer. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 564-566	2.3	4
148	Self-focusing of super-Gaussian laser beams propagating in an array of carbon nanotubes. <i>Russian Physics Journal</i> , 2012 , 55, 436-443	0.7	4
147	Coefficients of diffusion and conductivity of semiconductor carbon nanotubes in an external electric field. <i>Physics of the Solid State</i> , 2011 , 53, 1943-1946	0.8	4

146	Interaction of few-cycle optical pulses in nonmetallic carbon nanotubes. <i>Physics of Wave Phenomena</i> , 2011 , 19, 39-42	1.2	4
145	Electronic spectrum and tunneling current in curved graphene nanoribbons. <i>Solid State Communications</i> , 2011 , 151, 1147-1150	1.6	4
144	ZITTERBEWEGUNG IN THIN FILMS OF TOPOLOGICAL INSULATORS WITH HEXAGONAL LATTICE IRRADIATED BY TERAHERTZ PULSES. <i>Modern Physics Letters B</i> , 2012 , 26, 1250106	1.6	4
143	Absolute negative conductivity in graphene with the Hubbard interaction in a magnetic field. <i>Physics of the Solid State</i> , 2010 , 52, 1952-1956	0.8	4
142	Electromagnetic solitons in a system of quantum dots taking into account the Hubbard interaction. <i>Journal of Russian Laser Research</i> , 2008 , 29, 544-550	0.7	4
141	Three-dimensional few-cycle optical pulses in germanene with damping and amplification. <i>EPJ Web of Conferences</i> , 2017 , 161, 02012	0.3	3
140	Interaction of two-dimensional electromagnetic breathers in an array of carbon nanotubes. <i>Physics of the Solid State</i> , 2014 , 56, 2112-2117	0.8	3
139	Propagation of extremely short optical pulses in impurity carbon nanotubes in dispersive and nonlinear media. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012 , 76, 1280-1282	0.4	3
138	Negative differential conductivity in bilayer graphene controlled by an external voltage and in the presence of a magnetic field. <i>Physica Scripta</i> , 2011 , 83, 015603	2.6	3
137	Nonlinear diffraction in inhomogeneous superlattice. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2011 , 110, 105-109	0.7	3
136	ECHO EFFECTS ON RELATIVISTIC LANDAU LEVELS IN GRAPHENE AND BIGRAPHENE AS A MANIFESTATION OF THE QUANTUM MEMORY. <i>Modern Physics Letters B</i> , 2012 , 26, 1250094	1.6	3
135	Dynamics of electromagnetic pulses with wide spectra in semiconductor superlattices. <i>Journal of Russian Laser Research</i> , 2008 , 29, 114-122	0.7	3
134	Dynamics and damping of electromagnetic solitons in the carbon nanotube bundles. <i>Russian Journal of Physical Chemistry B</i> , 2008 , 2, 745-752	1.2	3
133	Opto-acoustic effects in an array of carbon nanotubes. <i>Journal of Applied Physics</i> , 2016 , 120, 134307	2.5	3
132	Ultrashort pulses in graphene with Coulomb impurities. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2016 , 120, 940-943	0.7	3
131	Three-dimensional few cycle optical pulses in nonlinear medium with carbon nanotubes. <i>Modern Physics Letters B</i> , 2016 , 30, 1650345	1.6	3
130	External light control of three-dimensional ultrashort far-infrared pulses in an inhomogeneous array of carbon nanotubes. <i>Physical Review B</i> , 2021 , 103,	3.3	3
129	Multidimensional ultimately short optical pulses in silicene. <i>Technical Physics Letters</i> , 2017 , 43, 386-389	0.7	2

128	Sensitivity of graphene flakes and nanorings to impurities. <i>Physica B: Condensed Matter</i> , 2017 , 514, 51-53.8	2
127	Effect of electromagnetic radiation on an array of noninteracting carbon nanoribbons in the presence of nanosecond electrical pulses. <i>Semiconductors</i> , 2015 , 49, 663-667	0.7 2
126	Ultrashort electromagnetic pulses in graphene with disorder. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2015 , 119, 248-251	0.7 2
125	Light bullets in an Bragg environment with carbon nanotubes in the external magnetic field. <i>EPJ Web of Conferences</i> , 2017 , 161, 02018	0.3 2
124	Two-dimensional electroacoustic waves in silicene. <i>Applied Physics B: Lasers and Optics</i> , 2018 , 124, 1	1.9 2
123	2D light bullets in a Bragg medium with a harmonically modulated refractive index and carbon nanotubes. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 837-840	0.4 2
122	The effect of spin-orbit interaction on the dynamics of ultimately short pulses in graphene systems. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2012 , 112, 453-456	0.7 2
121	Dynamics of ultrashort pulse propagation in the multilayer graphene-boron nitride system. <i>Physics of the Solid State</i> , 2013 , 55, 1248-1251	0.8 2
120	Terahertz radiation from carbon nanorings in external collinear constant and varying electric fields. <i>Technical Physics</i> , 2013 , 58, 584-588	0.5 2
119	Soliton-induced flow in carbon nanotubes. <i>Europhysics Letters</i> , 2013 , 101, 66001	1.6 2
118	Three-dimensional dissipative quasi-solitons in carbon nanotubes. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017 , 122, 641-645	0.7 2
117	The dynamics of three-dimensional extremely short pulses in carbon nanotubes with attenuation and amplification. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017 , 123, 624-628	0.7 2
116	Propagation of three-dimensional extremely short optical pulses in germanene in the presence of an external electric field. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017 , 123, 425-429	0.7 2
115	Dynamics of few cycle optical pulses in a non-Fermi liquid and AdS/CFT correspondence. <i>Modern Physics Letters B</i> , 2015 , 29, 1550096	1.6 2
114	Tunneling characteristics of a contact between a superlattice and non-Fermi liquid using the AdS/CFT correspondence. <i>Modern Physics Letters B</i> , 2014 , 28, 1450170	1.6 2
113	Study of the indirect interaction in the quantum dots of the graphene bilayer in the framework of the s-d model. <i>Technical Physics Letters</i> , 2011 , 37, 724-727	0.7 2
112	Specific features of indirect interaction in an impurity graphene bilayer in the framework of the s-d model. <i>Physics of the Solid State</i> , 2011 , 53, 1689-1693	0.8 2
111	Asymptotic dynamics of extremely short pulses in a system of carbon nanotubes. <i>Russian Physics Journal</i> , 2011 , 53, 1118-1124	0.7 2

110	Electromagnetic solitons in carbon nanotubes at low temperatures. <i>Russian Journal of Physical Chemistry B</i> , 2010 , 4, 151-155	1.2	2
109	Modeling of Seignette salt by a ferroelectric: Polarization lattices as a result of interaction with the acoustic subsystem. <i>Technical Physics</i> , 2007 , 52, 524-527	0.5	2
108	Simulation of the dynamics of the spatial domain structure of a ferroelectric triglycine sulfate crystal. <i>Physics of the Solid State</i> , 2006 , 48, 1132-1133	0.8	2
107	Three-dimensional few-cycle optical Airy pulses in the array of carbon nanotubes with multilevel impurities. <i>Modern Physics Letters B</i> , 2017 , 31, 1750005	1.6	1
106	Propagation of two-dimensional extremely short optical pulses in photonic crystal with silicene. <i>Modern Physics Letters B</i> , 2019 , 33, 1950037	1.6	1
105	Tunneling Characteristics of a Metal [Non-Fermi Liquid Contact and the AdS/CFT Correspondence. <i>Russian Physics Journal</i> , 2015 , 57, 1556-1560	0.7	1
104	Propagation of few cycle optical pulses in marginal Fermi liquid and ADS/CFT correspondence. <i>Physica B: Condensed Matter</i> , 2015 , 478, 43-46	2.8	1
103	Dynamics of a two-dimensional light bullet propagating in a system of carbon nanotubes with a velocity greater than the speed of light in the medium. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2016 , 80, 833-836	0.4	1
102	Two-dimensional extremely short optical pulses with a Bessel cross section in inhomogeneous medium of carbon nanotubes. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2016 , 121, 739-743	0.7	1
101	Zitterbewegung in Four-Dimensional Spherically-Symmetric Spacetime. <i>Russian Physics Journal</i> , 2016 , 59, 892-899	0.7	1
100	Few-cycle optical pulses in a thin film of a topological insulator. <i>Optics Communications</i> , 2014 , 329, 151-153		1
99	Stabilization of electromagnetic solitons in thin films of topological insulators by constant electric field. <i>European Physical Journal B</i> , 2014 , 87, 1	1.2	1
98	Nonlinear diffraction in a quantum-dot system with allowance for the Hubbard interaction. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2012 , 112, 249-254	0.7	1
97	Specific dynamics of faster-than-light (in the medium) extremely short optical pulses in an array of carbon nanotubes. <i>Physics of the Solid State</i> , 2012 , 54, 1463-1466	0.8	1
96	Doped graphene in a quantizing magnetic field: Hall conductivity. <i>Physics of the Solid State</i> , 2013 , 55, 895-897	0.8	1
95	Tunneling current of the contact between impurity-containing graphene nanoribbons. <i>Semiconductors</i> , 2013 , 47, 662-664	0.7	1
94	Extremely short optical pulses in strained graphene in terms of the gauge theory. <i>Physics of the Solid State</i> , 2013 , 55, 2602-2607	0.8	1
93	Light bullets in a Bragg medium containing metallic carbon nanotubes. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2017 , 123, 111-116	0.7	1

92	Three-dimensional few-circle optical pulses in the inhomogeneous environment of carbon nanotubes in an optical resonator. <i>EPJ Web of Conferences</i> , 2017 , 161, 02008	0.3	1
91	Dynamics of ultimately short electromagnetic pulses in chiral carbon nanotubes in the presence of an external field. <i>Technical Physics</i> , 2014 , 59, 1749-1752	0.5	1
90	Extremely short electromagnetic pulse in a superlattice taking into account field inhomogeneity along its axis. <i>Semiconductors</i> , 2014 , 48, 1348-1352	0.7	1
89	The possibility of using RNA for optical applications. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012 , 76, 260-263	0.4	1
88	Electromagnetic vortices in an array of carbon nanotubes. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2012 , 76, 1326-1328	0.4	1
87	Nonlinear diffraction of super-gaussian laser beams in an array of quantum-dot chains with coulomb interaction taken into account. <i>Journal of Russian Laser Research</i> , 2012 , 33, 55-62	0.7	1
86	Study of the indirect exchange interaction in a strained graphene nanoribbon. <i>Physica B: Condensed Matter</i> , 2013 , 419, 62-65	2.8	1
85	Absolute negative conductivity of graphene with impurities in magnetic field. <i>Semiconductors</i> , 2011 , 45, 628-632	0.7	1
84	Dissipative solitons in carbon nanotubes. <i>Physics of the Solid State</i> , 2011 , 53, 209-214	0.8	1
83	Curved graphene nanoribbons and tunneling current. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011 , 75, 1576-1578	0.4	1
82	Discrete solitons in the bigraphene with adsorbed atomic hydrogen. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011 , 75, 1655-1657	0.4	1
81	Absolute negative conductivity of graphene in the Hubbard model. <i>Physica Scripta</i> , 2010 , 82, 025704	2.6	1
80	Ultrashort optical pulses controlling electric fields in carbon nanotubes at low temperatures. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2009 , 73, 1598-1600	0.4	1
79	Dynamics of ultrashort light pulses in a semiconductor superlattice in the presence of a magnetic field. <i>Technical Physics Letters</i> , 2009 , 35, 759-763	0.7	1
78	Ultrashort optical pulse in a defect order-disorder ferroelectric. <i>Physics of the Solid State</i> , 2009 , 51, 1679-1684	1.84	1
77	On the vortex stability in BEC. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2011 , 44, 1653013	0.13	1
76	THE HALL CONDUCTIVITY OF A DOPED GRAPHENE IN A QUANTIZING MAGNETIC FIELD. <i>Modern Physics Letters B</i> , 2012 , 26, 1250188	1.6	1
75	Electromagnetic solitons in a superlattice with parabolic miniband. <i>Technical Physics Letters</i> , 2010 , 36, 389-391	0.7	1

74	A lattice of electromagnetic solitons in a superlattice formed by a system of quantum dots. <i>Journal of Russian Laser Research</i> , 2008 , 29, 49-56	0.7	1
73	Nonlinear waves of spatial polarization for a crystal of the deuterated seignette salt. <i>Physics of the Solid State</i> , 2006 , 48, 1088-1089	0.8	1
72	Investigation into the domain structure dynamics in ferroelectrics with an incommensurate phase. <i>Russian Physics Journal</i> , 2006 , 49, 864-868	0.7	1
71	Nonlinear Waves in Carbon Nanotubes under Conditions of Electron-Phonon Bonding. <i>Russian Physics Journal</i> , 2005 , 48, 639-645	0.7	1
70	Self-induced transparency in a resonance medium with the dipole-dipole interaction. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2000 , 88, 387-389	0.7	1
69	Electromagnetic solitons in bundles of zigzag carbon nanotubes 2010 , 50, 383		1
68	Zitterbewegung near a Schwarzschild-type black hole. <i>Modern Physics Letters A</i> , 2016 , 31, 1650168	1.3	1
67	Two-dimensional few cycle optical pulses inside a carbon nanotubes photonic crystal. <i>EPJ Web of Conferences</i> , 2019 , 220, 03010	0.3	1
66	Influence of the order parameter on the dynamics of ultrashort pulses in an environment with carbon nanotubes. <i>Journal of Applied Physics</i> , 2017 , 121, 084301	2.5	0
65	Zitterbewegung in thin-film topological insulators in the presence of a terahertz pulse. <i>Physics of the Solid State</i> , 2012 , 54, 2462-2464	0.8	0
64	Negative differential conductivity of bigraphene controlled by an external voltage in a magnetic field. <i>Physics of the Solid State</i> , 2011 , 53, 1694-1698	0.8	0
63	On Dipole Moment of Impurity Carbon Nanotubes. <i>Russian Physics Journal</i> , 2017 , 59, 2137-2142	0.7	
62	The Impact of Multilevel Impurity on the Tunnel and Ballistic Currents in a Graphene Nanoribbon. <i>Russian Physics Journal</i> , 2017 , 60, 122-127	0.7	
61	Conductivity of impurity graphene nanoribbons and gate electric field. <i>Modern Physics Letters B</i> , 2017 , 31, 1750340	1.6	
60	Zitterbewegung in cosmic string spacetime. <i>Modern Physics Letters A</i> , 2019 , 34, 1950135	1.3	
59	Interaction of Ultrashort Pulses in Metallic Nanotubes. <i>Russian Physics Journal</i> , 2015 , 58, 228-232	0.7	
58	Dissipative Solitons on a Torus. <i>Russian Physics Journal</i> , 2016 , 58, 1843-1847	0.7	
57	Ultrashort Optical Pulses in a Fermi Liquid and Duality of Gauge Gravitation. <i>Russian Physics Journal</i> , 2016 , 59, 352-358	0.7	

- 56 Dynamics of ultra-short electromagnetic pulses in the system of chiral carbon nanotube waveguides in the presence of external alternating electric field. *Physica B: Condensed Matter*, **2014**, 438, 45-47 2.8
- 55 Propagation of an Ultrashort Optical Pulse in Graphene on a Thin-Film Topological-Insulator Substrate. *Russian Physics Journal*, **2014**, 57, 364-369 0.7
- 54 Echoes of relativistic Landau levels in graphene and bilayer graphene. *Bulletin of the Russian Academy of Sciences: Physics*, **2012**, 76, 264-266 0.4
- 53 A study of the dynamics of propagation of an extremely short pulse in a graphene-boron nitride-graphene trilayer. *Technical Physics Letters*, **2013**, 39, 329-332 0.7
- 52 On the possibility of current amplification by random inhomogeneities in graphene. *Russian Physics Journal*, **2013**, 55, 1111-1116 0.7
- 51 Waveguides based on alternating graphene-boron-nitride layers. *Technical Physics Letters*, **2013**, 39, 1105-1108 0.7
- 50 Zitterbewegung in a GrapheneBoron Nitride Bilayer. *Russian Physics Journal*, **2013**, 56, 930-936 0.7
- 49 Dynamics of Optical Pulse Propagation in the Ribbon Formed by Graphene and Boron Nitride Layers of Finite Width. *Russian Physics Journal*, **2013**, 56, 801-806 0.7
- 48 Dispersive Instability of Multidimensional Light Bullets in Impurity Metal and AdS/CFT Correspondence. *Russian Physics Journal*, **2017**, 60, 577-585 0.7
- 47 The behavior of three-dimensional ultimately short optical pulses in a system of carbon nanotubes in the presence of an external magnetic field. *Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)*, **2017**, 123, 105-110 0.7
- 46 Extremely Short Optical Pulses and Ads/CFT Compliance. *EPJ Web of Conferences*, **2015**, 103, 08001 0.3
- 45 Study of the indirect interaction in a non-Fermi liquid within the AdS/CFT correspondence framework. *Modern Physics Letters B*, **2015**, 29, 1550081 1.6
- 44 Exciton Polarization in Carbon Nanotubes. *Russian Physics Journal*, **2015**, 58, 678-682 0.7
- 43 Electromagnetic solitons propagating along quantum wires. *Bulletin of the Russian Academy of Sciences: Physics*, **2014**, 78, 1265-1268 0.4
- 42 Tunneling current of the contact impurity graphene nanoribbon & quantum dots. *Russian Physics Journal*, **2012**, 55, 644-648 0.7
- 41 Ultrashort optical pulse in a thin film of a topological insulator. *Journal of Russian Laser Research*, **2012**, 33, 227-230 0.7
- 40 Extremely short optical pulse in a thin-film topological insulator with a hexagonal lattice. *Physics of the Solid State*, **2012**, 54, 1625-1627 0.8
- 39 Absolute negative conductivity in zig-zag carbon nanotubes in the presence of a magnetic field. *Russian Physics Journal*, **2012**, 54, 1185-1190 0.7

- 38 Domain structure of graphene with Hubbard interaction under conditions of emergence of a spontaneous transverse field. *Russian Journal of Physical Chemistry B*, **2011**, 5, 215-219 1.2
- 37 Ferroelectric phase transition in graphene with the Hubbard interaction. *Physics of the Solid State*, **2011**, 53, 2520-2524 0.8
- 36 Spontaneous transverse field in impurity graphene. *Technical Physics*, **2011**, 56, 1123-1128 0.5
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