

Sergei A Maksimenko

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6353369/sergei-a-maksimenko-publications-by-year.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

199
papers

3,755
citations

34
h-index

53
g-index

235
ext. papers

4,209
ext. citations

2.6
avg, IF

4.96
L-index

#	Paper	IF	Citations
199	Sensitive Detection of Industrial Pollutants Using Modified Electrochemical Platforms. <i>Nanomaterials</i> , 2022 , 12, 1779	5.4	0
198	Control of electromagnetic properties during prototyping, fabrication and operation of low- \mathbb{B} 25 MHz half-wave resonators. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 255502	3	1
197	Scattering of electromagnetic waves by two crossing metallic single-walled carbon nanotubes of finite length. <i>Physical Review B</i> , 2021 , 103,	3.3	4
196	Middle- and far-infrared detector based on the plane collection of graphene strips 2021 , 65, 661-667	0.2	
195	Alignment of luminescent liquid crystalline molecules on modified PEDOT:PSS substrate. <i>Applied Nanoscience (Switzerland)</i> , 2020 , 10, 5063-5068	3.3	1
194	Microscopic quantum description of second-order nonlinearities in two-dimensional hexagonal nanostructures beyond the Dirac cone approximation. <i>Physical Review B</i> , 2020 , 102,	3.3	1
193	Electromagnetic and optical responses of a composite material comprising individual single-walled carbon-nanotubes with a polymer coating. <i>Scientific Reports</i> , 2020 , 10, 9361	4.9	1
192	Alignment of polymer based magnetic composites in magnetic field. <i>Progress in Organic Coatings</i> , 2019 , 137, 105366	4.8	2
191	Carbon-Based Terahertz Resonant Antennas. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2019 , 175-199	0.2	1
190	Silicon carbide/phosphate ceramics composite for electromagnetic shielding applications: Whiskers vs particles. <i>Applied Physics Letters</i> , 2019 , 114, 183105	3.4	12
189	Electrodynamics of carbon nanotubes 2019 , 1-29		
188	Frequency and density dependencies of the electromagnetic parameters of carbon nanotube and graphene nanoplatelet based composites in the microwave and terahertz ranges. <i>Materials Research Express</i> , 2019 , 6, 095050	1.7	5
187	How effectively do carbon nanotube inclusions contribute to the electromagnetic performance of a composite material? Estimation criteria from microwave and terahertz measurements. <i>Carbon</i> , 2018 , 129, 688-694	10.4	13
186	Carbon nanotube sponges as tunable materials for electromagnetic applications. <i>Nanotechnology</i> , 2018 , 29, 375202	3.4	5
185	Coherent anti-Stokes Raman scattering as an effective tool for visualization of single-wall carbon nanotubes. <i>Optics Express</i> , 2018 , 26, 10527-10534	3.3	3
184	Influence of nanotube length and density on the plasmonic terahertz response of single-walled carbon nanotubes. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 014003	3	18
183	Electrical Permittivity and Conductivity of a Graphene Nanoplatelet Contact in the Microwave Range. <i>Materials</i> , 2018 , 11,	3.5	15

182	Localized plasmon resonance in boron-doped multiwalled carbon nanotubes. <i>Physical Review B</i> , 2018 , 97,	3.3	6
181	Short-length carbon nanotubes as building blocks for high dielectric constant materials in the terahertz range. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 08LT01	3	13
180	Anomalous electromagnetic coupling via entanglement at the nanoscale. <i>New Journal of Physics</i> , 2017 , 19, 023014	2.9	7
179	Effect of graphene grains size on the microwave electromagnetic shielding effectiveness of graphene/polymer multilayers. <i>Journal of Nanophotonics</i> , 2017 , 11, 032511	1.1	3
178	Grain size effect in conductive phosphate / carbon nanotube ceramics. <i>Ceramics International</i> , 2017 , 43, 4965-4969	5.1	4
177	Observation of the microwave near-field enhancement effect in suspensions comprising single-walled carbon nanotubes. <i>Materials Research Express</i> , 2017 , 4, 075033	1.7	9
176	Graphene layered systems as a terahertz source with tuned frequency. <i>Physical Review B</i> , 2017 , 95,	3.3	13
175	Integral equation technique for scatterers with mesoscopic insertions: Application to a carbon nanotube. <i>Physical Review B</i> , 2017 , 96,	3.3	6
174	Ultra-thin graphitic carbon film for high-power electronics applications. <i>Micro and Nano Letters</i> , 2017 , 12, 140-142	0.9	1
173	Electrical Conductivity of Carbon Nanotubes: Modeling and Characterization 2017 , 101-128		2
172	DESIGN OF CARBON NANOTUBE-BASED BROADBAND RADAR ABSORBER FOR KA-BAND FREQUENCY RANGE. <i>Progress in Electromagnetics Research M</i> , 2017 , 53, 9-16	0.6	12
171	Special Section Guest Editorial: Nanocarbon Photonics and Optoelectronics. <i>Journal of Nanophotonics</i> , 2017 , 11, 032501	1.1	3
170	Electroactive Polymer Based Conducting, Magnetic, and Luminescent Triple Composites. <i>Advances in Science and Technology</i> , 2016 , 97, 24-29	0.1	3
169	Copper nanoparticles decorated graphene nanoplatelets and composites with PEDOT:PSS. <i>Synthetic Metals</i> , 2016 , 222, 192-197	3.6	9
168	Microwave Properties of Ultrathin Pyrolytic Carbon Films. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2016 , 239-250	0.2	
167	Comparative Analysis of Electromagnetic Response of PVA/MWCNT and Styrene-Acrylic Copolymer/MWCNT Composites. <i>Russian Physics Journal</i> , 2016 , 59, 278-283	0.7	2
166	Electrical properties of carbon nanotubes/WS2 nanotubes (nanoparticles) hybrid films. <i>Nanosystems: Physics, Chemistry, Mathematics</i> , 2016 , 37-43	1.8	2
165	Shielding effects in thin films of carbon nanotubes within microwave range. <i>Lithuanian Journal of Physics</i> , 2016 , 56,	1.1	1

164	Microwave radiation absorbers based on corrugated composites with carbon fibers. <i>Technical Physics</i> , 2016 , 61, 1880-1884	0.5	9
163	Enhanced microwave-to-terahertz absorption in graphene. <i>Applied Physics Letters</i> , 2016 , 108, 123101	3.4	75
162	Temperature induced modification of the mid-infrared response of single-walled carbon nanotubes. <i>Journal of Applied Physics</i> , 2016 , 119, 104303	2.5	5
161	Shielding properties of composite materials based on epoxy resin with graphene nanoplates in the microwave frequency range. <i>Technical Physics Letters</i> , 2016 , 42, 1141-1144	0.7	5
160	Electromagnetic and thermal properties of three-dimensional printed multilayered nano-carbon/poly(lactic) acid structures. <i>Journal of Applied Physics</i> , 2016 , 119, 135102	2.5	36
159	Special Section Guest Editorial: Nanocarbon Photonics and Optoelectronics. <i>Journal of Nanophotonics</i> , 2016 , 10, 012501	1.1	
158	Carbon Nanotubes and Graphene Nanoribbons for Terahertz Applications. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2016 , 103-123	0.2	1
157	Quantum Dot Lattice as Nano-Antenna for Collective Spontaneous Emission. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2016 , 69-88	0.2	0
156	Microwave Absorption in Graphene Films: Theory and Experiment. <i>Journal of Applied Spectroscopy</i> , 2016 , 83, 650-655	0.7	
155	Nanodiamond targets for accelerator X-ray experiments. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2015 , 355, 261-263	1.2	1
154	Broadband Dielectric Spectroscopy of Composites Filled With Various Carbon Materials. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2015 , 63, 2024-2031	4.1	14
153	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2015 , 57, 1645-1654	2	16
152	One-step preparation of multiwall carbon nanotube/silicon hybrids for solar energy conversion. <i>Journal of Nanophotonics</i> , 2015 , 10, 012507	1.1	3
151	Effects of sonochemical modification of carbon nanotubes on electrical and electromagnetic shielding properties of epoxy composites. <i>Composites Science and Technology</i> , 2015 , 106, 85-92	8.6	57
150	Study of nanometric thin pyrolytic carbon films for explosive electron emission cathode in high-voltage planar diode. <i>Thin Solid Films</i> , 2015 , 581, 107-111	2.2	9
149	Carbon nanotubes and carbon onions for modification of styreneacrylate copolymer nanocomposites. <i>Polymer Composites</i> , 2015 , 36, 1048-1054	3	5
148	Flexible transparent graphene/polymer multilayers for efficient electromagnetic field absorption. <i>Scientific Reports</i> , 2014 , 4, 7191	4.9	102
147	Dielectric properties of graphite-based epoxy composites. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 1623-1633	1.6	28

146	Heat-resistant unfired phosphate ceramics with carbon nanotubes for electromagnetic application. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2014 , 211, 2580-2585	1.6	5
145	Electromagnetic Properties of Graphene-like Films in Ka-Band. <i>Applied Sciences (Switzerland)</i> , 2014 , 4, 255-264	2.6	8
144	Dielectric properties of polymer composites with carbon nanotubes of different diameters. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 5430-4	1.3	8
143	Electrical transport in carbon black-epoxy resin composites at different temperatures. <i>Journal of Applied Physics</i> , 2013 , 114, 033707	2.5	23
142	Role of finite-size effects in the microwave and subterahertz electromagnetic response of a multiwall carbon-nanotube-based composite: Theory and interpretation of experiments. <i>Physical Review B</i> , 2013 , 88,	3.3	47
141	. <i>IEEE Nanotechnology Magazine</i> , 2013 , 12, 696-703	2.6	12
140	Influence of carbon-nanotube diameters on composite dielectric properties. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2013 , 210, 2491-2498	1.6	17
139	Microwave absorption properties of pyrolytic carbon nanofilm. <i>Nanoscale Research Letters</i> , 2013 , 8, 60	5	21
138	A study of random resistor-capacitor-diode networks to assess the electromagnetic properties of carbon nanotube filled polymers. <i>Applied Physics Letters</i> , 2013 , 103, 243104	3.4	18
137	Epoxy composites filled with high surface area-carbon fillers: Optimization of electromagnetic shielding, electrical, mechanical, and thermal properties. <i>Journal of Applied Physics</i> , 2013 , 114, 164304	2.5	58
136	Enhanced microwave shielding effectiveness of ultrathin pyrolytic carbon films. <i>Applied Physics Letters</i> , 2013 , 103, 073117	3.4	35
135	Array of tunneling-coupled quantum dots as a terahertz range quantum nanoantenna. <i>Journal of Nanophotonics</i> , 2013 , 7, 073085	1.1	5
134	Broadband dielectric/electric properties of epoxy thin films filled with multiwalled carbon nanotubes. <i>Journal of Nanophotonics</i> , 2013 , 7, 073593	1.1	24
133	Transport and electromagnetic properties of ultrathin pyrolytic carbon films. <i>Journal of Nanophotonics</i> , 2013 , 7, 073595	1.1	1
132	Anisotropic electromagnetic properties of polymer composites containing oriented multiwall carbon nanotubes in respect to terahertz polarizer applications. <i>Journal of Applied Physics</i> , 2013 , 114, 114304	2.5	35
131	Nonlinear theory of graphene interaction with strong laser radiation beyond the Dirac cone approximation: Coherent control of quantum states in nano-optics. <i>Physical Review B</i> , 2013 , 88,	3.3	17
130	Multiphoton resonant excitations and high-harmonic generation in bilayer graphene. <i>Physical Review B</i> , 2013 , 88,	3.3	34
129	Electrical conductivity of single-wall carbon nanotube films in strong electric field. <i>Journal of Applied Physics</i> , 2013 , 113, 183719	2.5	0

128	Characterizing epoxy composites filled with carbonaceous nanoparticles from dc to microwave. <i>Journal of Applied Physics</i> , 2013 , 113, 124103	2.5	33
127	Effect of nitrogen doping on the electromagnetic properties of carbon nanotube-based composites. <i>Journal of Applied Physics</i> , 2013 , 113, 144315	2.5	51
126	Multilayered graphene in K(a)-band: nanoscale coating for aerospace applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2013 , 13, 5864-7	1.3	18
125	. <i>IEEE Transactions on Electromagnetic Compatibility</i> , 2012 , 54, 6-16	2	39
124	Soft cutting of single-wall carbon nanotubes by low temperature ultrasonication in a mixture of sulfuric and nitric acids. <i>Nanotechnology</i> , 2012 , 23, 495714	3.4	37
123	Collective spontaneous emission in coupled quantum dots: Physical mechanism of quantum nanoantenna. <i>Physical Review B</i> , 2012 , 86,	3.3	24
122	Terahertz time domain spectroscopy of epoxy resin composite with various carbon inclusions. <i>Chemical Physics</i> , 2012 , 404, 129-135	2.3	18
121	CNT/PMMA Electromagnetic Coating: Effect of Carbon Nanotube Diameter. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2012 , 20, 527-530	1.8	3
120	Mixed states in Rabi waves and quantum nanoantennas. <i>Physical Review B</i> , 2012 , 85,	3.3	16
119	Nanocarbon Modified Epoxy Resin and Microwaves. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2012 , 20, 496-501	1.8	3
118	Multi-walled carbon nanotubes/PMMA composites for THz applications. <i>Diamond and Related Materials</i> , 2012 , 25, 13-18	3.5	21
117	Highly porous conducting carbon foams for electromagnetic applications 2012 ,		4
116	Electromagnetic shielding efficiency in Ka-band: carbon foam versus epoxy/carbon nanotube composites. <i>Journal of Nanophotonics</i> , 2012 , 6, 061715	1.1	53
115	The effect of sample holder geometry on electromagnetic heating of nanoparticle and NaCl solutions at 13.56 MHz. <i>IEEE Transactions on Biomedical Engineering</i> , 2012 , 59, 3468-74	5	22
114	Antenna resonances in terahertz photoconductivity of single wall carbon nanotube fibers. <i>Diamond and Related Materials</i> , 2012 , 27-28, 36-39	3.5	6
113	Plasmon polariton deceleration in graphene structures. <i>Journal of Nanophotonics</i> , 2012 , 6, 061719	1.1	15
112	Electronic properties of asymmetrical quantum dots dressed by laser field. <i>Physica Status Solidi (B): Basic Research</i> , 2012 , 249, 914-917	1.3	2
111	Experimental evidence of localized plasmon resonance in composite materials containing single-wall carbon nanotubes. <i>Physical Review B</i> , 2012 , 85,	3.3	86

110	Transmission-Line Model for Multiwall Carbon Nanotubes With Intershell Tunneling. <i>IEEE Nanotechnology Magazine</i> , 2012 , 11, 554-564	2.6	21
109	Epoxy Resin/SWCNT Shielding Paint for Super-High-Frequency Range. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2012 , 7, 81-86	1.3	9
108	Boron Enriched Unfired Phosphate Ceramics as Neutron Protector. <i>Nanoscience and Nanotechnology Letters</i> , 2012 , 4, 1104-1109	0.8	5
107	Potential of Carbon Nanotubes for Cancer Cells Thermolysis in an RF Exposing Field. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2012 , 37-48	0.2	
106	Signal Propagation in Carbon Nanotubes of Arbitrary Chirality. <i>IEEE Nanotechnology Magazine</i> , 2011 , 10, 135-149	2.6	40
105	Anisotropy of the electromagnetic properties of polymer composites based on multiwall carbon nanotubes in the gigahertz frequency range. <i>JETP Letters</i> , 2011 , 93, 607-611	1.2	23
104	Spontaneous decay of an excited state of an emitter coupled to parallel SWNTs placed in the vicinity of a plane interface between two dielectric materials. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2011 , 9, 381-389	2.6	2
103	Rabi waves and Rabi wavepackets in one-dimensional quantum dot chain: Excitation, propagation, reflection. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2011 , 111, 618-625	0.7	
102	Microwave probing of nanocarbon based epoxy resin composite films: Toward electromagnetic shielding. <i>Thin Solid Films</i> , 2011 , 519, 4114-4118	2.2	68
101	CNT Based Epoxy Resin Composites for Conductive Applications. <i>Nanoscience and Nanotechnology Letters</i> , 2011 , 3, 889-894	0.8	11
100	RF and Microwave Electrical Response of Carbon Nanotube Saline Solutions for Potential Biomedical Applications. <i>Nanoscience and Nanotechnology Letters</i> , 2011 , 3, 885-888	0.8	7
99	Rabi oscillations and saturable absorption effect in single-wall carbon nanotubes. <i>Journal of Physics: Conference Series</i> , 2010 , 248, 012015	0.3	1
98	Scattering of the near field of an electric dipole by a single-wall carbon nanotube. <i>Journal of Nanophotonics</i> , 2010 , 4, 041685	1.1	6
97	Radiofrequency field absorption by carbon nanotubes embedded in a conductive host. <i>Journal of Applied Physics</i> , 2010 , 108, 114302	2.5	34
96	Substitutional doping of carbon nanotubes to control their electromagnetic characteristics. <i>Physical Review B</i> , 2010 , 82,	3.3	28
95	Terahertz sensing with carbon nanotube layers coated on silica fibers: Carrier transport versus nanoantenna effects. <i>Applied Physics Letters</i> , 2010 , 97, 073116	3.4	10
94	Dielectric properties of a novel high absorbing onion-like-carbon based polymer composite. <i>Diamond and Related Materials</i> , 2010 , 19, 91-99	3.5	23
93	Special Section Editorial: Carbon Nanotubes. <i>Journal of Nanophotonics</i> , 2010 , 4, 041699	1.1	

92	Electromagnetic response of the composites containing chemically modified carbon nanotubes. <i>Journal of Physics: Conference Series</i> , 2010 , 248, 012003	0.3	2
91	Terahertz conductivity peak in composite materials containing carbon nanotubes: Theory and interpretation of experiment. <i>Physical Review B</i> , 2010 , 81,	3.3	106
90	Spontaneous decay of the excited state of an emitter near a finite-length metallic carbon nanotube. <i>Physical Review B</i> , 2010 , 82,	3.3	8
89	Cherenkov synchronism: Non-relativistic electron beam in multi-walled carbon nanotube and multi-layer graphene. <i>Physica B: Condensed Matter</i> , 2010 , 405, 3050-3053	2.8	4
88	Mechanisms of terahertz emission from carbon nanotubes. <i>Physica B: Condensed Matter</i> , 2010 , 405, 3054-3056	2.8	7
87	Light-matter coupling in nanostructures without an inversion center. <i>Superlattices and Microstructures</i> , 2010 , 47, 216-218	2.8	
86	Onion-like-carbon-based composite films: Theoretical modeling of electromagnetic response. <i>Solid State Sciences</i> , 2009 , 11, 1752-1756	3.4	10
85	Onion-like carbon based polymer composite films in microwaves. <i>Solid State Sciences</i> , 2009 , 11, 1762-1767	3.4	14
84	Dielectric properties of onion-like carbon based polymer films: Experiment and modeling. <i>Solid State Sciences</i> , 2009 , 11, 1828-1832	3.4	9
83	Electromagnetic shielding properties of MWCNT/PMMA composites in Ka-band. <i>Physica Status Solidi (B): Basic Research</i> , 2009 , 246, 2662-2666	1.3	34
82	Dielectric properties of MWCNT based polymer composites close and below percolation threshold. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2009 , 6, 2814-2816		5
81	Wave propagation of Rabi oscillations in one-dimensional quantum dot chain. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009 , 373, 1374-1378	2.3	15
80	Carbon nanotube as a Cherenkov-type light emitter and free electron laser. <i>Physical Review B</i> , 2009 , 79,	3.3	40
79	Theory of multiwall carbon nanotubes as waveguides and antennas in the infrared and the visible regimes. <i>Physical Review B</i> , 2009 , 79,	3.3	83
78	Influence of Humidity on Dielectric Properties of PMMA Nanocomposites Containing Onion-Like Carbon. <i>Ferroelectrics</i> , 2009 , 391, 131-138	0.6	2
77	Matter coupling to strong electromagnetic fields in two-level quantum systems with broken inversion symmetry. <i>Physical Review Letters</i> , 2009 , 102, 023601	7.4	67
76	Photonic density of states in the vicinity of a single-wall finite-length carbon nanotube. <i>Physica Scripta</i> , 2009 , T135, 014041	2.6	1
75	Absorption Cross-Section and Near-Field Enhancement in Finite-Length Carbon Nanotubes in the Terahertz-to-Optical Range. <i>Journal of Computational and Theoretical Nanoscience</i> , 2009 , 6, 2016-2023	0.3	13

74	Dielectric Response of Onion-Like Carbon-Based Polymethyl Methacrylate Composites. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2009 , 4, 261-266	1.3	2
73	Onion-Like Carbon in Microwaves: Electromagnetic Absorption Bands and Percolation Effect. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2009 , 4, 257-260	1.3	10
72	Terahertz probing of onion-like carbon-PMMA composite films. <i>Diamond and Related Materials</i> , 2008 , 17, 1608-1612	3.5	33
71	Electromagnetic theory of nanodimensional antennas for terahertz, infrared and optical regimes 2008 ,		4
70	Photon-statistics dispersion in excitonic composites. <i>New Journal of Physics</i> , 2008 , 10, 023032	2.9	5
69	Controllable electromagnetic response of onion-like carbon based materials. <i>Physica Status Solidi (B): Basic Research</i> , 2008 , 245, 2051-2054	1.3	28
68	Stimulated emission of electron beam in nanotube bundles. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 2370-2374	3	10
67	Toward the nano-FEL: Undulator and Cherenkov mechanisms of light emission in carbon nanotubes. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1065-1068	3	12
66	Exciton radiative lifetime of quantum rods in reflectivity. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 1985-1987	3	5
65	Carbon nanotube antenna: Far-field, near-field and thermal-noise properties. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2008 , 40, 2360-2364	3	28
64	Dipole polarizability of onion-like carbons and electromagnetic properties of their composites. <i>Nanotechnology</i> , 2008 , 19, 115706	3.4	34
63	Study of the polarizability of fullerenes with a monopole-dipole interaction model. <i>Diamond and Related Materials</i> , 2007 , 16, 2145-2149	3.5	17
62	Rabi oscillations a quantum dot exposed to quantum light. <i>Materials Science and Engineering C</i> , 2007 , 27, 1030-1033	8.3	
61	Generation and Propagation of Electromagnetic Waves in Carbon Nanotubes: New Proposition for Optoelectronics and Bio-medical ApplicationsView all notes. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2007 , 37, 341-346		6
60	Near-field and far-field effects in thermal radiation from metallic carbon nanotubes 2007 ,		2
59	Thermal radiation from carbon nanotubes in the terahertz range. <i>Physical Review Letters</i> , 2007 , 99, 147403	4.3	44
58	Attenuation of electromagnetic waves in onion-like carbon composites. <i>Diamond and Related Materials</i> , 2007 , 16, 1231-1235	3.5	47
57	Electrodynamics of chiral carbon nanotubes in the helical parametrization scheme. <i>Journal of Nanophotonics</i> , 2007 , 1, 013505	1.1	5

56	Electromagnetic wave propagation in an almost circular bundle of closely packed metallic carbon nanotubes. <i>Physical Review B</i> , 2007 , 76,	3.3	67
55	Microscopic theory of quantum dot interactions with quantum light: Local field effect. <i>Physical Review B</i> , 2007 , 76,	3.3	20
54	Theory of optical scattering by achiral carbon nanotubes and their potential as optical nanoantennas. <i>Physical Review B</i> , 2006 , 73,	3.3	154
53	Radiative instability of electron beam in carbon nanotubes 2006 , 6328, 206		8
52	Third-order optical nonlinearity in single-wall carbon nanotubes. <i>Carbon</i> , 2006 , 44, 2246-2253	10.4	42
51	THIRD-ORDER NONLINEARITY AND PLASMON PROPERTIES IN CARBON NANOTUBES 2006 , 175-176		0
50	Strong light-matter coupling in a quantum dot: local field effects. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2005 , 2, 850-853		1
49	HIGH-ORDER OPTICAL HARMONIC GENERATION ON CARBON NANOTUBES: QUANTUM-MECHANICAL APPROACH. <i>International Journal of Nanoscience</i> , 2004 , 03, 343-354	0.6	16
48	Excitonic Rabi oscillations in a quantum dot: local field impact. <i>Superlattices and Microstructures</i> , 2004 , 36, 773-781	2.8	3
47	Atomic spontaneous decay rate enhancement near a carbon nanotube. <i>Carbon</i> , 2004 , 42, 997-1000	10.4	1
46	Rabi oscillations in a semiconductor quantum dot: Influence of local fields. <i>Physical Review B</i> , 2004 , 70,	3.3	46
45	Third-harmonic generation in carbon nanotubes: theory and experiment 2004 ,		1
44	Electrodynamics of quasi-one-dimensional carbon structures: waveguiding, nonlinear response, composites 2003 , 5219, 11		
43	Nonradiative spontaneous decay of an excited atom near a carbon nanotube 2003 , 5219, 129		
42	Exciton-phonon interactions and exciton pure dephasing in lens-shaped quantum dots. <i>Materials Science and Engineering C</i> , 2003 , 23, 1107-1110	8.3	2
41	Photon vacuum renormalization and spontaneous decay of an excited atom near a carbon nanotube. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2003 , 94, 823-828	0.7	
40	Exciton-phonon interactions and exciton dephasing in semiconductor quantum-well heterostructures. <i>Physical Review B</i> , 2003 , 68,	3.3	24
39	Local Field Effects in an Isolated Quantum Dot: Self-Consistent Microscopic Approach. <i>Physica Status Solidi A</i> , 2002 , 190, 555-559		6

38	Spontaneous decay of excited atomic states near a carbon nanotube. <i>Physical Review Letters</i> , 2002 , 89, 115504	7.4	46
37	Quantum optics of a quantum dot: Local-field effects. <i>Physical Review A</i> , 2002 , 66,	2.6	33
36	Experimental and theoretical study of third-order harmonic generation in carbon nanotubes. <i>Applied Physics Letters</i> , 2002 , 81, 4064-4066	3.4	62
35	Excitonic Composites 2002 , 385-402		1
34	Size and shape effects in electromagnetic response of quantum dots and quantum dot arrays. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2001 , 82, 215-217	3.1	12
33	Towards Cholesteric Absorbers for Microwave Frequencies. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 2001 , 22, 999-1007		2
32	Scattering of Electromagnetic Waves by a Semi-Infinite Carbon Nanotube. <i>AEU - International Journal of Electronics and Communications</i> , 2001 , 55, 273-280	2.8	6
31	Effective boundary conditions for planar quantum dot structures. <i>Physical Review B</i> , 2001 , 64,	3.3	25
30	High-order harmonic generation by conduction electrons in carbon nanotube ropes. <i>Physical Review A</i> , 2001 , 63,	2.6	57
29	Electromagnetic response of carbon nanotubes and nanotube ropes. <i>Synthetic Metals</i> , 2001 , 124, 121-123	3.6	10
28	Electromagnetic response of 3D arrays of quantum dots. <i>Journal of Electronic Materials</i> , 2000 , 29, 494-503	3.9	11
27	Light confinement in a quantum dot. <i>Semiconductor Science and Technology</i> , 2000 , 15, 491-496	1.8	13
26	Highly efficient high-order harmonic generation by metallic carbon nanotubes. <i>Physical Review A</i> , 1999 , 60, R777-R780	2.6	100
25	Polarization splitting of the gain band in quantum wire and quantum dot arrays. <i>Physical Review B</i> , 1999 , 59, 12275-12278	3.3	28
24	Electrodynamics of carbon nanotubes: Dynamic conductivity, impedance boundary conditions, and surface wave propagation. <i>Physical Review B</i> , 1999 , 60, 17136-17149	3.3	303
23	Effective medium theory of the microwave and the infrared properties of composites with carbon nanotube inclusions. <i>Carbon</i> , 1998 , 36, 1833-1839	10.4	35
22	Electronic and electromagnetic properties of nanotubes. <i>Physical Review B</i> , 1998 , 57, 9485-9497	3.3	84
21	Microwave Pulse Propagation Through a Corrugated Waveguide Section. <i>Electromagnetics</i> , 1997 , 17, 147-156	0.8	0

- 20 Bragg diffraction of a plane wave by a standing spatial soliton. *Quantum Electronics*, **1997**, 27, 59-63 1.8
- 19 Weakly Nonlinear Chiral Composites: The Bruggeman and the Maxwell Garnett Models **1997**, 155-162
- 18 Nonlinear Electron Transport Effects in a Chiral Carbon Nanotube. *Physical Review Letters*, **1997**, 79, 1102-110563
- 17 Gaussian pulse propagation in a linear, lossy chiral medium. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **1997**, 14, 894 1.8 10
- 16 Pulse Distortion by a Lossy, Resonant Chiral Medium **1997**, 103-113
- 15 Bruggeman and Maxwell Garnett models of a chiral composite with weak cubic nonlinearities. *Microwave and Optical Technology Letters*, **1996**, 12, 342-346 1.2 6
- 14 Time-domain beltrami-maxwell solitons in certain nonlinear chiral media. *Microwave and Optical Technology Letters*, **1995**, 9, 218-221 1.2 3
- 13 Nonlinear electromagnetics in chiral media: Self-action of waves. *Physical Review E*, **1995**, 52, 1049-10582.4 8
- 12 Floquet-Bloch waves in periodic chiral media. *Physical Review E*, **1995**, 51, 2543-2549 2.4 9
- 11 Effect of Slab Interfaces on Diffraction of Visible Light by a Thick Volume Grating. *Journal of Modern Optics*, **1994**, 41, 1875-1887 1.1 4
- 10 Chirped pulse distortion in a volume reflection grating. *Optics Communications*, **1994**, 110, 401-409 2 5
- 9 Group-velocity dispersion in an all-pass Bragg filter. *Optics Letters*, **1994**, 19, 1783-5 3 2
- 8 Light pulse dispersion under Laue diffraction from a spatial holographic grating. *Optics Communications*, **1992**, 94, 379-388 2 8
- 7 Covariant Theory of the Multiwave Bragg-Laue X-Ray Diffraction in Crystals. *Physica Status Solidi (B): Basic Research*, **1989**, 151, 17-21 1.3 1
- 6 The Tensor Reflection Coefficient for the Surface Diffraction. *Physica Status Solidi (B): Basic Research*, **1985**, 131, 429-435 1.3 2
- 5 On X-Ray Surface Diffraction. *Physica Status Solidi A*, **1984**, 85, K23-K25 2
- 4 Nanoelectromagnetics of Low-Dimensional Structures 145-206 45
- 3 Conductive Luminescent Material Based on Polymer-Functionalized Graphene Composite. *Physica Status Solidi (A) Applications and Materials Science*, 2100492 1.6

2 Quantum Dot Arrays: Electromagnetic Properties 3975-3985

1 Highly luminescent and electrically conductive hybrid material. *Applied Nanoscience (Switzerland)*, 1 3,3 1