

Ivan D. Rukhlenko

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.

168
papers

3,328
citations

34
h-index

47
g-index

193
ext. papers

3,982
ext. citations

4
avg, IF

5.58
L-index

#	Paper	IF	Citations
168	Anisotropic absorber and tunable source of MIR radiation based on a black phosphorus-SiC metasurface. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2022 , 101020	2.6	5
167	Epsilon-near-zero enhancement of near-field radiative heat transfer in BP/hBN and BP/EMoO ₃ parallel-plate structures. <i>Applied Physics Letters</i> , 2022 , 120, 112204	3.4	4
166	Golden Vaterite as a Mesoscopic Metamaterial for Biophotonic Applications. <i>Advanced Materials</i> , 2021 , 33, e2008484	24	5
165	Engineering Profiles of Thermally Drawn Optical Fiber Tapers. <i>Journal of Lightwave Technology</i> , 2021 , 39, 3237-3243	4	1
164	Thermally drawn biodegradable fibers with tailored topography for biomedical applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , 109, 733-743	3.5	4
163	Hybrid surface plasmon polaritons in graphene coupled anisotropic van der Waals material waveguides. <i>Journal Physics D: Applied Physics</i> , 2021 , 54, 455102	3	4
162	Highly transmissive bilayer Huygens metasurface with over 315° phase coverage. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 124, 153330	2.8	0
161	High-efficiency ultra-thin polarization converter based on planar anisotropic transmissive metasurface. <i>AEU - International Journal of Electronics and Communications</i> , 2020 , 118, 153141	2.8	7
160	Performance Optimization of Polymer Fibre Actuators for Soft Robotics. <i>Polymers</i> , 2020 , 12,	4.5	3
159	Nonparabolicity of size-quantized subbands of bilayer semiconductor quantum wells with heterojunction. <i>Optics Express</i> , 2020 , 28, 1657-1664	3.3	0
158	Tunable plasmon-phonon polaritons in anisotropic 2D materials on hexagonal boron nitride. <i>Nanophotonics</i> , 2020 , 9, 3909-3920	6.3	9
157	Electrically Tunable Metasurface with Independent Frequency and Amplitude Modulations. <i>ACS Photonics</i> , 2020 , 7, 265-271	6.3	83
156	Multimaterial and Flexible Devices Made by Fiber Drawing 2020 ,		1
155	Twisted Bilayer Graphene Quantum Dots for Chiral Nanophotonics. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 22704-22710	3.8	10
154	Toward Bright Red-Emissive Carbon Dots through Controlling Interaction among Surface Emission Centers. <i>Journal of Physical Chemistry Letters</i> , 2020 , 11, 8121-8127	6.4	20
153	Engineering spin and antiferromagnetic resonances to realize an efficient direction-multiplexed visible meta-hologram. <i>Nanoscale Horizons</i> , 2020 , 5, 57-64	10.8	38
152	Truly All-Dielectric Ultrabroadband Metamaterial Absorber: Water-Based and Ground-Free. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019 , 18, 536-540	3.8	38

151	Dielectric 2-bit coding metasurface for electromagnetic wave manipulation. <i>Journal of Applied Physics</i> , 2019 , 125, 203101	2.5	24
150	Giant Stokes Shifts in AgInS ₂ Nanocrystals with Trapped Charge Carriers. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 16430-16438	3.8	16
149	Photoluminescence of Ag-In-S/ZnS quantum dots: Excitation energy dependence and low-energy electronic structure. <i>Nano Research</i> , 2019 , 12, 1595-1603	10	30
148	Amino Functionalization of Carbon Dots Leads to Red Emission Enhancement. <i>Journal of Physical Chemistry Letters</i> , 2019 , 10, 5111-5116	6.4	33
147	sp-sp-Hybridized Atomic Domains Determine Optical Features of Carbon Dots. <i>ACS Nano</i> , 2019 , 13, 10737-10742	17.1	42
146	Resonant mode coupling in hybrid all-dielectric metamaterial. <i>Materials Research Express</i> , 2019 , 6, 125801	1.7	1
145	Thermally drawn polycaprolactone fibres with customised cross sections 2019 ,		2
144	Highly efficient generation of Bessel beams with polarization insensitive metasurfaces. <i>Optics Express</i> , 2019 , 27, 9467-9480	3.3	50
143	Electric-field-enhanced circular dichroism of helical semiconductor nanoribbons. <i>Optics Letters</i> , 2019 , 44, 499-502	3	4
142	Electronic and Optical Properties of Perovskite Quantum-Dot Dimer. <i>Semiconductors</i> , 2019 , 53, 2158-2161	17	0
141	Optical Activity and Circular Dichroism of Perovskite Quantum-Dot Molecules. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 2658-2664	3.8	5
140	Maser Emission from Gravitational States on Isolated Neutron Stars. <i>Astrophysical Journal</i> , 2018 , 857, 41	4.7	0
139	Induction of Chirality in Two-Dimensional Nanomaterials: Chiral 2D MoS Nanostructures. <i>ACS Nano</i> , 2018 , 12, 954-964	16.7	54
138	Excitation Energy Dependence of the Photoluminescence Quantum Yield of Core/Shell CdSe/CdS Quantum Dots and Correlation with Circular Dichroism. <i>Chemistry of Materials</i> , 2018 , 30, 465-471	9.6	21
137	Water metamaterial for ultra-broadband and wide-angle absorption. <i>Optics Express</i> , 2018 , 26, 5052-5059	3.3	63
136	Nonlinear coupling states study of electromagnetic force actuated plasmonic nonlinear metamaterials. <i>Optics Express</i> , 2018 , 26, 3211-3220	3.3	7
135	Circular Dichroism Study of Colloidal Semiconductor Nanoscrolls. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2018 , 125, 688-692	0.7	
134	Optical Activity of Semiconductor Nanosprings. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2018 , 125, 684-687	0.7	0

- 133 Theory of Frenkel Excitons in Planar Arrays of Perovskite Quantum Dots. *Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)*, **2018**, 125, 693-697 0.7
- 132 Excitonic phenomena in perovskite quantum-dot supercrystals. *Physical Chemistry Chemical Physics*, **2018**, 20, 25023-25030 3.6 6
- 131 Optically Active Semiconductor Nanosprings for Tunable Chiral Nanophotonics. *ACS Nano*, **2018**, 12, 62036-62040 16.7 10
- 130 Optical Activity of Semiconductor Gammadions beyond Planar Chirality. *Journal of Physical Chemistry Letters*, **2018**, 9, 2941-2945 6.4 14
- 129 Optical Activity of Chiral Nanoscrolls. *Advanced Optical Materials*, **2017**, 5, 1600982 8.1 21
- 128 Absorption properties of one- and two-dimensional semiconductor nanocrystals in the presence of an electric field. *Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)*, **2017**, 122, 101-105 0.7 2
- 127 Intraband optical activity of semiconductor nanocrystals. *Chirality*, **2017**, 29, 159-166 2.1 11
- 126 Optical activity of semiconductor nanocrystals with ionic impurities. *Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)*, **2017**, 122, 64-68 0.7 2
- 125 Effect of Extinction on Separation of Nanoparticle Enantiomers With Chiral Optical Forces. *IEEE Photonics Journal*, **2017**, 9, 1-6 1.8 2
- 124 Optical activity of helical quantum-dot supercrystals. *Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)*, **2017**, 122, 42-47 0.7 3
- 123 Chiral nanoparticles in singular light fields. *Scientific Reports*, **2017**, 7, 45925 4.9 11
- 122 Analytical study of optical activity of chiral-shape nanocrystals **2017**, 3
- 121 Optical Anisotropy of Topologically Distorted Semiconductor Nanocrystals. *Nano Letters*, **2017**, 17, 5514-5520 11.5 16
- 120 Chiral Optical Properties of Tapered Semiconductor Nanoscrolls. *ACS Nano*, **2017**, 11, 7508-7515 16.7 24
- 119 Multiband coherent perfect absorption in a water-based metasurface. *Optics Express*, **2017**, 25, 15737-15745 3.4 41
- 118 Experimental observation of the topological structure of exceptional points in an ultrathin hybridized metamaterial. *Physical Review A*, **2017**, 96, 2.6 5
- 117 Optically active quantum-dot molecules. *Optics Express*, **2017**, 25, 3811-3825 3.3 16
- 116 Analytical theory of real-argument Laguerre-Gaussian beams beyond the paraxial approximation. *Journal of the Optical Society of America A: Optics and Image Science, and Vision*, **2017**, 34, 1940-1944 1.8 4

115	Wideband visible-light absorption in an ultrathin silicon nanostructure. <i>Optics Express</i> , 2017 , 25, 5781-5786	3.6	39
114	Excitons in gyrotropic quantum-dot supercrystals. <i>Optics Letters</i> , 2017 , 42, 2423-2426	3	8
113	Guided Plasmon Modes of a Graphene-Coated Kerr Slab. <i>Plasmonics</i> , 2016 , 11, 735-741	2.4	18
112	Circular Dichroism of Electric-Field-Oriented CdSe/CdS Quantum Dots-in-Rods. <i>ACS Nano</i> , 2016 , 10, 8904-8917	4.7	12
111	Chiral quantum supercrystals with total dissymmetry of optical response. <i>Scientific Reports</i> , 2016 , 6, 23321	4.1	21
110	Field-Induced Broadening of Electroabsorption Spectra of Semiconductor Nanorods and Nanoplatelets. <i>Journal of Physical Chemistry C</i> , 2016 , 120, 2379-2385	3.8	22
109	Quantum theory of electroabsorption in semiconductor nanocrystals. <i>Optics Express</i> , 2016 , 24, A52-7	3.3	17
108	Chapter 3 Modeling Nonlinear Optical Phenomena in Silicon Nanocrystal Structures 2016 , 61-108		
107	Completely Chiral Optical Force for Enantioseparation. <i>Scientific Reports</i> , 2016 , 6, 36884	4.9	44
106	Mixing of quantum states: A new route to creating optical activity. <i>Scientific Reports</i> , 2016 , 6, 5	4.9	19
105	Optical activity of chirally distorted nanocrystals. <i>Journal of Applied Physics</i> , 2016 , 119, 194302	2.5	24
104	Shape-induced optical activity of chiral nanocrystals. <i>Optics Letters</i> , 2016 , 41, 2438-41	3	24
103	Engineering Optical Activity of Semiconductor Nanocrystals via Ion Doping. <i>Nanophotonics</i> , 2016 , 5, 573-578	6.3	21
102	Electroabsorption of a semiconductor nanocuboid. <i>Journal of Optical Technology (A Translation of Opticheskii Zhurnal)</i> , 2015 , 82, 749	0.9	0
101	Radiative decay rates of impurity states in semiconductor nanocrystals. <i>AIP Advances</i> , 2015 , 5, 107126	1.5	1
100	Giant Optical Activity of Quantum Dots, Rods, and Disks with Screw Dislocations. <i>Scientific Reports</i> , 2015 , 5, 14712	4.9	43
99	Recent Advances in Theory and Applications of Electromagnetic Metamaterials. <i>International Journal of Antennas and Propagation</i> , 2015 , 2015, 1-2	1.2	
98	Dislocation-induced chirality of semiconductor nanocrystals. <i>Nano Letters</i> , 2015 , 15, 1710-5	11.5	51

97	Photoluminescence of a quantum-dot molecule. <i>Journal of Applied Physics</i> , 2015 , 117, 014306	2.5	10
96	Optical transitions in a complex valence band of semiconductor nanocrystals. <i>Journal of Optical Technology (A Translation of Opticheski Zhurnal)</i> , 2015 , 82, 743	0.9	
95	Tunable Broadband Optical Responses of Substrate-Supported Metal/Dielectric/Metal Nanospheres. <i>Plasmonics</i> , 2014 , 9, 659-672	2.4	26
94	Spaser made of graphene and carbon nanotubes. <i>ACS Nano</i> , 2014 , 8, 2431-8	16.7	43
93	Polarization conversion in U-shaped chiral metamaterial with four-fold symmetry breaking. <i>Journal of Applied Physics</i> , 2014 , 115, 143101	2.5	27
92	Modeling nonlinear optical phenomena in silicon-nanocrystal composites and waveguides. <i>Journal of Optics (United Kingdom)</i> , 2014 , 16, 015207	1.7	7
91	Harnessing the Shape-Induced Optical Anisotropy of a Semiconductor Nanocrystal: A New Type of Intraband Absorption Spectroscopy. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 2867-2876	3.8	10
90	Raman Amplification in Silicon-Nanocrystal Waveguides. <i>Journal of Lightwave Technology</i> , 2014 , 32, 130-134	16.7	16
89	Electroabsorption by 0D, 1D, and 2D nanocrystals: a comparative study of CdSe colloidal quantum dots, nanorods, and nanoplatelets. <i>ACS Nano</i> , 2014 , 8, 7678-86	16.7	63
88	Optical Propagation Through Graded-Index Metamaterials in the Presence of Gain. <i>Plasmonics</i> , 2014 , 9, 1257-1263	2.4	1
87	Level anticrossing of impurity states in semiconductor nanocrystals. <i>Scientific Reports</i> , 2014 , 4, 6917	4.9	18
86	Low-threshold lasing in photonic-crystal heterostructures. <i>Optics Express</i> , 2014 , 22, 6229-38	3.3	18
85	Phonon-assisted photoluminescence from a semiconductor quantum dot with resonant electron and phonon subsystems. <i>Optics Express</i> , 2014 , 22, 19707-25	3.3	2
84	Response to [Comment on [Graphene metamaterial for optical reflection modulation][Appl. Phys. Lett. 104, 256101 (2014)]. <i>Applied Physics Letters</i> , 2014 , 104, 256102	3.4	1
83	Optimized gold nanoshell ensembles for biomedical applications. <i>Nanoscale Research Letters</i> , 2013 , 8, 142	5	35
82	Wideband giant optical activity and negligible circular dichroism of near-infrared chiral metamaterial based on a complementary twisted configuration. <i>Journal of Optics (United Kingdom)</i> , 2013 , 15, 125101	1.7	24
81	Application of zero-index metamaterials for surface plasmon guiding. <i>Applied Physics Letters</i> , 2013 , 102, 011910	3.4	15
80	Single-crystal caged gold nanorods with tunable broadband plasmon resonances. <i>Chemical Communications</i> , 2013 , 49, 9630-2	5.8	36

79	Engineering band structure in nanoscale quantum-dot supercrystals. <i>Optics Letters</i> , 2013 , 38, 2259-61	3	20
78	Graphene-enabled tunability of optical fishnet metamaterial. <i>Applied Physics Letters</i> , 2013 , 102, 121911	3.4	39
77	Analysis of Lasing in Dye-Doped Photonic Crystals. <i>IEEE Photonics Journal</i> , 2013 , 5, 4700409-4700409	1.8	16
76	Quantum-dot supercrystals for future nanophotonics. <i>Scientific Reports</i> , 2013 , 3,	4.9	43
75	Graphene metamaterial for optical reflection modulation. <i>Applied Physics Letters</i> , 2013 , 102, 241914	3.4	70
74	Transient intraband absorption of light by semiconductor nanorods. <i>Journal of Optical Technology (A Translation of Opticheski Zhurnal)</i> , 2013 , 80, 648	0.9	2
73	Low-threshold lasing in active opal photonic crystals. <i>Optics Letters</i> , 2013 , 38, 1046-8	3	12
72	Effect of number density on optimal design of gold nanoshells for plasmonic photothermal therapy. <i>Biomedical Optics Express</i> , 2013 , 4, 15-31	3.5	39
71	Unveiling ultrasharp scattering-switching signatures of layered gold dielectric-gold nanospheres. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 2066	1.7	22
70	Theory of nonlinear pulse propagation in silicon-nanocrystal waveguides. <i>Optics Express</i> , 2013 , 21, 2832-46	4.6	10
69	Design optimization of spasers considering the degeneracy of excited plasmon modes. <i>Optics Express</i> , 2013 , 21, 15335-49	3.3	7
68	Engineering optical nonlinearities in silicon-nanocrystal waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013 , 30, 3145	1.7	3
67	Optical properties and aging of PbS quantum dots embedded in a porous matrix 2013 ,		1
66	Analytical study of optimal design and gain parameters of double-slot plasmonic waveguides. <i>Journal of Optics (United Kingdom)</i> , 2013 , 15, 035006	1.7	3
65	Maneuvering Propagation of Surface Plasmon Polaritons Using Complementary Medium Inserts. <i>IEEE Photonics Journal</i> , 2012 , 4, 741-747	1.8	18
64	Optimization of Nonlinear Performance of Silicon-Nanocrystal Cylindrical Nanowires. <i>IEEE Photonics Journal</i> , 2012 , 4, 952-959	1.8	6
63	Guided plasmonic modes of anisotropic slot waveguides. <i>Nanotechnology</i> , 2012 , 23, 444006	3.4	20
62	Size-dependent room-temperature luminescence decay from PbS quantum dots 2012 ,		9

61	Combined Effect of ASE and DRBS on Noise in Pulse-Pumped Fiber Raman Amplifiers. <i>Journal of Lightwave Technology</i> , 2012 , 30, 2983-2987	4	5
60	Configurable metamaterial absorber with pseudo wideband spectrum. <i>Optics Express</i> , 2012 , 20, 6616-213,3	3,3	85
59	Kinetics of thermalized luminescence of a single quantum dot at room temperature. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2012 , 113, 259-264	0.7	4
58	Kinetics of resonance luminescence of a single quantum dot at room temperature. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2012 , 113, 265-270	0.7	2
57	Anomalous size-dependent decay of low-energy luminescence from PbS quantum dots in colloidal solution. <i>ACS Nano</i> , 2012 , 6, 8913-21	16.7	80
56	Free-standing plasmonic-nanorod superlattice sheets. <i>ACS Nano</i> , 2012 , 6, 925-34	16.7	111
55	Effective mode area and its optimization in silicon-nanocrystal waveguides. <i>Optics Letters</i> , 2012 , 37, 2295-7	3,3	39
54	Plasmonic Modes of Metamaterial-Based Slot Waveguides. <i>Advances in OptoElectronics</i> , 2012 , 2012, 1-5	0.5	2
53	Modern Trends in Metamaterial Applications. <i>Advances in OptoElectronics</i> , 2012 , 2012, 1-2	0.5	1
52	Light amplification in zero-index metamaterial with gain inserts. <i>Applied Physics Letters</i> , 2012 , 101, 0319074	0.7	30
51	Spatial and spectral distributions of emission from dye-doped photonic crystals in reflection and transmission geometries. <i>Journal of Nanophotonics</i> , 2012 , 6, 063526	1.1	12
50	Shape-induced anisotropy of intraband luminescence from a semiconductor nanocrystal. <i>Optics Letters</i> , 2012 , 37, 4645-7	3	13
49	Optimizing the design of planar heterostructures for plasmonic waveguiding. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 553	1.7	8
48	Effective third-order susceptibility of silicon-nanocrystal-doped silica. <i>Optics Express</i> , 2012 , 20, 26275-843,3	3,3	19
47	Kinetics of pulse-induced photoluminescence from a semiconductor quantum dot. <i>Optics Express</i> , 2012 , 20, 27612-35	3.3	15
46	Linear transformation optics for plasmonics. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012 , 29, 2659	1.7	29
45	Manipulating energy flow in variable-gap plasmonic waveguides. <i>Optics Letters</i> , 2012 , 37, 5151-3	3	6
44	Polarization-dependent spectral broadening of femtosecond pulses in silicon waveguides. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 2383	1.7	2

43	Analytical theory of optical bistability in plasmonic nanoresonators. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2011 , 28, 2820	1.7	20
42	Exact dispersion relation for nonlinear plasmonic waveguides. <i>Physical Review B</i> , 2011 , 84,	3.3	38
41	Nonlinear propagation in silicon-based plasmonic waveguides from the standpoint of applications. <i>Optics Express</i> , 2011 , 19, 206-17	3.3	34
40	Theory of quasi-elastic secondary emission from a quantum dot in the regime of vibrational resonance. <i>Optics Express</i> , 2011 , 19, 15459-82	3.3	16
39	Optimal design of composite nanowires for extended reach of surface plasmon-polaritons. <i>Optics Express</i> , 2011 , 19, 16058-74	3.3	21
38	Surface plasmon-polariton propagation in piecewise linear chains of composite nanospheres: the role of optical gain and chain layout. <i>Optics Express</i> , 2011 , 19, 19973-86	3.3	34
37	Dispersion relation for surface plasmon polaritons in metal/nonlinear-dielectric/metal slot waveguides. <i>Optics Letters</i> , 2011 , 36, 3374-6	3	32
36	Complex- Γ approach versus complex-k approach in description of gain-assisted surface plasmon-polariton propagation along linear chains of metallic nanospheres. <i>Physical Review B</i> , 2011 , 83,	3.3	24
35	Maximization of Gain in Slow-Light Silicon Raman Amplifiers. <i>International Journal of Optics</i> , 2011 , 2011, 1-7	0.9	5
34	Analytical Modeling of Resonant Cavities for Plasmonic-Slot-Waveguide Junctions. <i>IEEE Photonics Journal</i> , 2011 , 3, 220-233	1.8	44
33	Improved transmission model for metal-dielectric-metal plasmonic waveguides with stub structure. <i>Optics Express</i> , 2010 , 18, 6191-204	3.3	172
32	Analytical study of pulse amplification in silicon Raman amplifiers. <i>Optics Express</i> , 2010 , 18, 18324-38	3.3	9
31	FDTD modeling of anisotropic nonlinear optical phenomena in silicon waveguides. <i>Optics Express</i> , 2010 , 18, 21427-48	3.3	35
30	Theory of negative refraction in periodic stratified metamaterials. <i>Optics Express</i> , 2010 , 18, 27916-29	3.3	7
29	Analytical study of optical bistability in silicon ring resonators. <i>Optics Letters</i> , 2010 , 35, 55-7	3	48
28	Visualization of electromagnetic-wave polarization evolution using the Poincaré sphere. <i>Optics Letters</i> , 2010 , 35, 2221-3	3	5
27	Effect of free carriers on pump-to-signal noise transfer in silicon Raman amplifiers. <i>Optics Letters</i> , 2010 , 35, 2343-5	3	8
26	Spectral compression and group delay of optical pulses in silicon Raman amplifiers. <i>Optics Letters</i> , 2010 , 35, 3138-40	3	12

25	Optimization of gain-assisted waveguiding in metal-dielectric nanowires. <i>Optics Letters</i> , 2010 , 35, 4190-23		25
24	Multipath Interference in Pulse-Pumped Fiber Raman Amplifiers: Analytical Approach. <i>Journal of Lightwave Technology</i> , 2010 , 28, 2701-2707	4	6
23	Experimental characterization of TDM-pumped distributed Raman amplifier with commercial laser diode controller 2010 ,		1
22	. <i>IEEE Photonics Journal</i> , 2010 , 2, 423-435	1.8	6
21	Nonlinear Silicon Photonics: Analytical Tools. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 200-215	3.8	55
20	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010 , 16, 226-233	3.8	11
19	Novel directions in Raman amplifier research 2009 ,		1
18	Continuous-wave Raman amplification in silicon waveguides: beyond the undepleted pump approximation. <i>Optics Letters</i> , 2009 , 34, 536-8	3	26
17	Analytical Study of RIN Transfer in Pulse-Pumped Raman Amplifiers. <i>Journal of Lightwave Technology</i> , 2009 , 27, 4536-4543	4	8
16	Maximization of net optical gain in silicon-waveguide Raman amplifiers. <i>Optics Express</i> , 2009 , 17, 5807-14	3.3	23
15	Spontaneous emission of guided polaritons by quantum dot coupled to metallic nanowire: beyond the dipole approximation. <i>Optics Express</i> , 2009 , 17, 17570-81	3.3	40
14	Coupling of light from microdisk lasers into plasmonic nano-antennas. <i>Optics Express</i> , 2009 , 17, 20878-84	3.3	40
13	Unified perfectly matched layer for finite-difference time-domain modeling of dispersive optical materials. <i>Optics Express</i> , 2009 , 17, 21179-90	3.3	21
12	Analytical study of optical bistability in silicon-waveguide resonators. <i>Optics Express</i> , 2009 , 17, 22124-37	3.3	27
11	. <i>Journal of Lightwave Technology</i> , 2009 , 27, 3241-3248	4	12
10	Raman-Mediated Nonlinear Interactions in Silicon Waveguides: Copropagating and Counterpropagating Pulses. <i>IEEE Photonics Technology Letters</i> , 2009 , 21, 1372-1374	2.2	9
9	Tip-enhanced secondary emission of a semiconductor quantum dot. <i>Physical Review B</i> , 2008 , 77,	3.3	1
8	Quantum dot energy relaxation mediated by plasmon emission in doped covalent semiconductor heterostructures. <i>Physical Review B</i> , 2007 , 76,	3.3	19

7	Propagation of electric fields induced by optical phonons in semiconductor heterostructures. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2006 , 100, 238-244	0.7	21
6	Study of electronic dynamics of quantum dots using resonant photoluminescence technique. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2006 , 100, 716-723	0.7	9
5	Penetration of electric fields induced by surface phonon modes into the layers of a semiconductor heterostructure. <i>Optics and Spectroscopy (English Translation of Optika I Spektroskopiya)</i> , 2006 , 101, 253-264	0.7	21
4	Enhanced intraband carrier relaxation in quantum dots due to the effect of plasmon-LO-phonon density of states in doped heterostructures. <i>Physical Review B</i> , 2005 , 71,	3.3	27
3	New many-body mechanism of intraband carrier relaxation in quantum dots embedded in doped heterostructures. <i>Solid State Communications</i> , 2003 , 128, 219-223	1.6	20
2	New mechanism of intraband carrier relaxation in quantum dots. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2003 , 1217-1220		2
1	Pellet injectors developed at the PELIN laboratory for international projects. <i>Fusion Engineering and Design</i> , 2001 , 58-59, 295-299	1.7	7