

Ivan D. Rukhlenko

List of Publications by Year in descending order

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191
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56
g-index

193
all docs

193
docs citations

193
times ranked

3878
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | Improved transmission model for metal-dielectric-metal plasmonic waveguides with stub structure. Optics Express, 2010, 18, 6191. | 1.7 | 203 |
| 2 | Electrically Tunable Metasurface with Independent Frequency and Amplitude Modulations. ACS Photonics, 2020, 7, 265-271. | 3.2 | 202 |
| 3 | $sp^{2/3}$ -Hybridized Atomic Domains Determine Optical Features of Carbon Dots. ACS Nano, 2019, 13, 10737-10744. | 7.3 | 136 |
| 4 | Free-Standing Plasmonic-Nanorod Superlattice Sheets. ACS Nano, 2012, 6, 925-934. | 7.3 | 132 |
| 5 | Configurable metamaterial absorber with pseudo wideband spectrum. Optics Express, 2012, 20, 6616. | 1.7 | 96 |
| 6 | Anomalous Size-Dependent Decay of Low-Energy Luminescence from PbS Quantum Dots in Colloidal Solution. ACS Nano, 2012, 6, 8913-8921. | 7.3 | 95 |
| 7 | Induction of Chirality in Two-Dimensional Nanomaterials: Chiral 2D MoS_2 Nanostructures. ACS Nano, 2018, 12, 954-964. | 7.3 | 93 |
| 8 | Water metamaterial for ultra-broadband and wide-angle absorption. Optics Express, 2018, 26, 5052. | 1.7 | 92 |
| 9 | Graphene metamaterial for optical reflection modulation. Applied Physics Letters, 2013, 102, . | 1.5 | 90 |
| 10 | Highly efficient generation of Bessel beams with polarization insensitive metasurfaces. Optics Express, 2019, 27, 9467. | 1.7 | 77 |
| 11 | Electroabsorption by 0D, 1D, and 2D Nanocrystals: A Comparative Study of CdSe Colloidal Quantum Dots, Nanorods, and Nanoplatelets. ACS Nano, 2014, 8, 7678-7686. | 7.3 | 75 |
| 12 | Truly All-Dielectric Ultrabroadband Metamaterial Absorber: Water-Based and Ground-Free. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 536-540. | 2.4 | 73 |
| 13 | Nonlinear Silicon Photonics: Analytical Tools. IEEE Journal of Selected Topics in Quantum Electronics, 2010, 16, 200-215. | 1.9 | 70 |
| 14 | Engineering spin and antiferromagnetic resonances to realize an efficient direction-multiplexed visible meta-hologram. Nanoscale Horizons, 2020, 5, 57-64. | 4.1 | 68 |
| 15 | Amino Functionalization of Carbon Dots Leads to Red Emission Enhancement. Journal of Physical Chemistry Letters, 2019, 10, 5111-5116. | 2.1 | 66 |
| 16 | Dislocation-Induced Chirality of Semiconductor Nanocrystals. Nano Letters, 2015, 15, 1710-1715. | 4.5 | 64 |
| 17 | Analytical study of optical bistability in silicon ring resonators. Optics Letters, 2010, 35, 55. | 1.7 | 60 |
| 18 | Completely Chiral Optical Force for Enantioseparation. Scientific Reports, 2016, 6, 36884. | 1.6 | 57 |

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Analytical Modeling of Resonant Cavities for Plasmonic-Slot-Waveguide Junctions. IEEE Photonics Journal, 2011, 3, 220-233. | 1.0 | 56 |
| 20 | Multiband coherent perfect absorption in a water-based metasurface. Optics Express, 2017, 25, 15737. | 1.7 | 56 |
| 21 | Effective mode area and its optimization in silicon-nanocrystal waveguides. Optics Letters, 2012, 37, 2295. | 1.7 | 53 |
| 22 | Spaser Made of Graphene and Carbon Nanotubes. ACS Nano, 2014, 8, 2431-2438. | 7.3 | 52 |
| 23 | Wideband visible-light absorption in an ultrathin silicon nanostructure. Optics Express, 2017, 25, 5781. | 1.7 | 50 |
| 24 | Giant Optical Activity of Quantum Dots, Rods and Disks with Screw Dislocations. Scientific Reports, 2015, 5, 14712. | 1.6 | 49 |
| 25 | Coupling of light from microdisk lasers into plasmonic nano-antennas. Optics Express, 2009, 17, 20878. | 1.7 | 48 |
| 26 | Quantum-dot supercrystals for future nanophotonics. Scientific Reports, 2013, 3, . | 1.6 | 47 |
| 27 | Graphene-enabled tunability of optical fishnet metamaterial. Applied Physics Letters, 2013, 102, . | 1.5 | 46 |
| 28 | Single-crystal caged gold nanorods with tunable broadband plasmon resonances. Chemical Communications, 2013, 49, 9630. | 2.2 | 43 |
| 29 | Photoluminescence of Ag-In-S/ZnS quantum dots: Excitation energy dependence and low-energy electronic structure. Nano Research, 2019, 12, 1595-1603. | 5.8 | 43 |
| 30 | Spontaneous emission of guided polaritons by quantum dot coupled to metallic nanowire: Beyond the dipole approximation. Optics Express, 2009, 17, 17570. | 1.7 | 42 |
| 31 | FDTD modeling of anisotropic nonlinear optical phenomena in silicon waveguides. Optics Express, 2010, 18, 21427. | 1.7 | 42 |
| 32 | Dispersion relation for surface plasmon polaritons in metal/nonlinear-dielectric/metal slot waveguides. Optics Letters, 2011, 36, 3374. | 1.7 | 42 |
| 33 | Exact dispersion relation for nonlinear plasmonic waveguides. Physical Review B, 2011, 84, . | 1.1 | 41 |
| 34 | Effect of number density on optimal design of gold nanoshells for plasmonic photothermal therapy. Biomedical Optics Express, 2013, 4, 15. | 1.5 | 41 |
| 35 | Nonlinear propagation in silicon-based plasmonic waveguides from the standpoint of applications. Optics Express, 2011, 19, 206. | 1.7 | 40 |
| 36 | Linear transformation optics for plasmonics. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2659. | 0.9 | 40 |

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| 37 | Light amplification in zero-index metamaterial with gain inserts. Applied Physics Letters, 2012, 101, 031907. | 1.5 | 39 |
| 38 | Optimized gold nanoshell ensembles for biomedical applications. Nanoscale Research Letters, 2013, 8, 142. | 3.1 | 38 |
| 39 | Dielectric 2-bit coding metasurface for electromagnetic wave manipulation. Journal of Applied Physics, 2019, 125, . | 1.1 | 38 |
| 40 | Surface plasmon-polariton propagation in piecewise linear chains of composite nanospheres: The role of optical gain and chain layout. Optics Express, 2011, 19, 19973. | 1.7 | 36 |
| 41 | Polarization conversion in U-shaped chiral metamaterial with four-fold symmetry breaking. Journal of Applied Physics, 2014, 115, . | 1.1 | 35 |
| 42 | Toward Bright Red-Emissive Carbon Dots through Controlling Interaction among Surface Emission Centers. Journal of Physical Chemistry Letters, 2020, 11, 8121-8127. | 2.1 | 34 |
| 43 | Chiral Optical Properties of Tapered Semiconductor Nanoscrolls. ACS Nano, 2017, 11, 7508-7515. | 7.3 | 32 |
| 44 | Continuous-wave Raman amplification in silicon waveguides: beyond the undepleted pump approximation. Optics Letters, 2009, 34, 536. | 1.7 | 30 |
| 45 | Analytical study of optical bistability in silicon-waveguide resonators. Optics Express, 2009, 17, 22124. | 1.7 | 30 |
| 46 | Complex approach versus complex approach in description of gain-assisted surface plasmon-polariton propagation along linear chains of metallic nanospheres. Physical Review B, 2011, 83, . | 1.1 | 30 |
| 47 | Wideband giant optical activity and negligible circular dichroism of near-infrared chiral metamaterial based on a complementary twisted configuration. Journal of Optics (United Kingdom), 2013, 15, 125101. | 1.0 | 30 |
| 48 | Shape-induced optical activity of chiral nanocrystals. Optics Letters, 2016, 41, 2438. | 1.7 | 30 |
| 49 | Enhanced intraband carrier relaxation in quantum dots due to the effect of plasmon LO-phonon density of states in doped heterostructures. Physical Review B, 2005, 71, . | 1.1 | 29 |
| 50 | Optical Activity of Chiral Nanoscrolls. Advanced Optical Materials, 2017, 5, 1600982. | 3.6 | 29 |
| 51 | Giant Stokes Shifts in AgInS ₂ Nanocrystals with Trapped Charge Carriers. Journal of Physical Chemistry C, 2019, 123, 16430-16438. | 1.5 | 29 |
| 52 | Tunable Broadband Optical Responses of Substrate-Supported Metal/Dielectric/Metal Nanospheres. Plasmonics, 2014, 9, 659-672. | 1.8 | 28 |
| 53 | Mixing of quantum states: A new route to creating optical activity. Scientific Reports, 2016, 6, 5. | 1.6 | 28 |
| 54 | Optical activity of chirally distorted nanocrystals. Journal of Applied Physics, 2016, 119, 194302. | 1.1 | 28 |

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| 55 | 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. | 3.2 | 27 |
| 56 | Golden Vaterite as a Mesoscopic Metamaterial for Biophotonic Applications. <i>Advanced Materials</i> , 2021, 33, e2008484. | 11.1 | 27 |
| 57 | Unified perfectly matched layer for finite-difference time-domain modeling of dispersive optical materials. <i>Optics Express</i> , 2009, 17, 21179. | 1.7 | 26 |
| 58 | Optimization of gain-assisted waveguiding in metal-dielectric nanowires. <i>Optics Letters</i> , 2010, 35, 4190. | 1.7 | 26 |
| 59 | Guided plasmonic modes of anisotropic slot waveguides. <i>Nanotechnology</i> , 2012, 23, 444006. | 1.3 | 26 |
| 60 | New many-body mechanism of intraband carrier relaxation in quantum dots embedded in doped heterostructures. <i>Solid State Communications</i> , 2003, 128, 219-223. | 0.9 | 25 |
| 61 | 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. | 0.2 | 25 |
| 62 | 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. | 0.2 | 25 |
| 63 | Optimal design of composite nanowires for extended reach of surface plasmon-polaritons. <i>Optics Express</i> , 2011, 19, 16058. | 1.7 | 25 |
| 64 | Engineering Optical Activity of Semiconductor Nanocrystals via Ion Doping. <i>Nanophotonics</i> , 2016, 5, 573-578. | 2.9 | 24 |
| 65 | Field-Induced Broadening of Electroabsorption Spectra of Semiconductor Nanorods and Nanoplatelets. <i>Journal of Physical Chemistry C</i> , 2016, 120, 2379-2385. | 1.5 | 24 |
| 66 | Guided Plasmon Modes of a Graphene-Coated Kerr Slab. <i>Plasmonics</i> , 2016, 11, 735-741. | 1.8 | 24 |
| 67 | Optical Anisotropy of Topologically Distorted Semiconductor Nanocrystals. <i>Nano Letters</i> , 2017, 17, 5514-5520. | 4.5 | 24 |
| 68 | Tunable plasmon-phonon polaritons in anisotropic 2D materials on hexagonal boron nitride. <i>Nanophotonics</i> , 2020, 9, 3909-3920. | 2.9 | 24 |
| 69 | Maximization of net optical gain in silicon-waveguide Raman amplifiers. <i>Optics Express</i> , 2009, 17, 5807. | 1.7 | 23 |
| 70 | Maneuvering Propagation of Surface Plasmon Polaritons Using Complementary Medium Inserts. <i>IEEE Photonics Journal</i> , 2012, 4, 741-747. | 1.0 | 23 |
| 71 | Level Anticrossing of Impurity States in Semiconductor Nanocrystals. <i>Scientific Reports</i> , 2014, 4, 6917. | 1.6 | 23 |
| 72 | Chiral quantum supercrystals with total dissymmetry of optical response. <i>Scientific Reports</i> , 2016, 6, 23321. | 1.6 | 23 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Twisted Bilayer Graphene Quantum Dots for Chiral Nanophotonics. Journal of Physical Chemistry C, 2020, 124, 22704-22710. | 1.5 | 23 |
| 74 | Analytical theory of optical bistability in plasmonic nanoresonators. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2820. | 0.9 | 22 |
| 75 | Engineering band structure in nanoscale quantum-dot supercrystals. Optics Letters, 2013, 38, 2259. | 1.7 | 22 |
| 76 | Unveiling ultrasharp scattering-switching signatures of layered gold-dielectric-gold nanospheres. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 2066. | 0.9 | 22 |
| 77 | Epsilon-near-zero enhancement of near-field radiative heat transfer in BP/hBN and BP/ \pm -MoO ₃ parallel-plate structures. Applied Physics Letters, 2022, 120, . | 1.5 | 21 |
| 78 | Effective third-order susceptibility of silicon-nanocrystal-doped silica. Optics Express, 2012, 20, 26275. | 1.7 | 20 |
| 79 | Analysis of Lasing in Dye-Doped Photonic Crystals. IEEE Photonics Journal, 2013, 5, 4700409-4700409. | 1.0 | 20 |
| 80 | Raman Amplification in Silicon-Nanocrystal Waveguides. Journal of Lightwave Technology, 2014, 32, 130-134. | 2.7 | 20 |
| 81 | Quantum theory of electroabsorption in semiconductor nanocrystals. Optics Express, 2016, 24, A52. | 1.7 | 20 |
| 82 | Optical Activity of Semiconductor Gammadions beyond Planar Chirality. Journal of Physical Chemistry Letters, 2018, 9, 2941-2945. | 2.1 | 20 |
| 83 | Quantum dot energy relaxation mediated by plasmon emission in doped covalent semiconductor heterostructures. Physical Review B, 2007, 76, . | 1.1 | 19 |
| 84 | Low-threshold lasing in photonic-crystal heterostructures. Optics Express, 2014, 22, 6229. | 1.7 | 18 |
| 85 | Theory of quasi-elastic secondary emission from a quantum dot in the regime of vibrational resonance. Optics Express, 2011, 19, 15459. | 1.7 | 17 |
| 86 | Application of zero-index metamaterials for surface plasmon guiding. Applied Physics Letters, 2013, 102, 011910. | 1.5 | 17 |
| 87 | Optically active quantum-dot molecules. Optics Express, 2017, 25, 3811. | 1.7 | 17 |
| 88 | Kinetics of pulse-induced photoluminescence from a semiconductor quantum dot. Optics Express, 2012, 20, 27612. | 1.7 | 16 |
| 89 | Anisotropic absorber and tunable source of MIR radiation based on a black phosphorus-SiC metasurface. Photonics and Nanostructures - Fundamentals and Applications, 2022, 50, 101020. | 1.0 | 16 |
| 90 | Shape-induced anisotropy of intraband luminescence from a semiconductor nanocrystal. Optics Letters, 2012, 37, 4645. | 1.7 | 15 |

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| 91 | High-efficiency ultra-thin polarization converter based on planar anisotropic transmissive metasurface. <i>AEU - International Journal of Electronics and Communications</i> , 2020, 118, 153141. | 1.7 | 15 |
| 92 | Nonlinear Pulse Evolution in Silicon Waveguides: An Approximate Analytic Approach. <i>Journal of Lightwave Technology</i> , 2009, 27, 3241-3248. | 2.7 | 14 |
| 93 | Chiral nanoparticles in singular light fields. <i>Scientific Reports</i> , 2017, 7, 45925. | 1.6 | 14 |
| 94 | Optically Active Semiconductor Nanosprings for Tunable Chiral Nanophotonics. <i>ACS Nano</i> , 2018, 12, 6203-6209. | 7.3 | 14 |
| 95 | Optimization of Raman Amplification in Silicon Waveguides With Finite Facet Reflectivities. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2010, 16, 226-233. | 1.9 | 13 |
| 96 | Spectral compression and group delay of optical pulses in silicon Raman amplifiers. <i>Optics Letters</i> , 2010, 35, 3138. | 1.7 | 13 |
| 97 | Spatial and spectral distributions of emission from dye-doped photonic crystals in reflection and transmission geometries. <i>Journal of Nanophotonics</i> , 2012, 6, 063526. | 0.4 | 13 |
| 98 | Low-threshold lasing in active opal photonic crystals. <i>Optics Letters</i> , 2013, 38, 1046. | 1.7 | 13 |
| 99 | Intraband optical activity of semiconductor nanocrystals. <i>Chirality</i> , 2017, 29, 159-166. | 1.3 | 13 |
| 100 | Raman-Mediated Nonlinear Interactions in Silicon Waveguides: Copropagating and Counterpropagating Pulses. <i>IEEE Photonics Technology Letters</i> , 2009, 21, 1372-1374. | 1.3 | 12 |
| 101 | Circular Dichroism of Electric-Field-Oriented CdSe/CdS Quantum Dots-in-Rods. <i>ACS Nano</i> , 2016, 10, 8904-8909. | 7.3 | 12 |
| 102 | Experimental observation of the topological structure of exceptional points in an ultrathin hybridized metamaterial. <i>Physical Review A</i> , 2017, 96, . | 1.0 | 12 |
| 103 | Hybrid surface plasmon polaritons in graphene coupled anisotropic van der Waals material waveguides. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 455102. | 1.3 | 12 |
| 104 | Theory of nonlinear pulse propagation in silicon-nanocrystal waveguides. <i>Optics Express</i> , 2013, 21, 2832. | 1.7 | 11 |
| 105 | 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. | 1.5 | 11 |
| 106 | Photoluminescence of a quantum-dot molecule. <i>Journal of Applied Physics</i> , 2015, 117, 014306. | 1.1 | 11 |
| 107 | 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. | 1.6 | 11 |
| 108 | Optimizing the design of planar heterostructures for plasmonic waveguiding. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 553. | 0.9 | 10 |

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|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | Size-dependent room-temperature luminescence decay from PbS quantum dots. Proceedings of SPIE, 2012, , . | 0.8 | 10 |
| 110 | Excitonic phenomena in perovskite quantum-dot supercrystals. Physical Chemistry Chemical Physics, 2018, 20, 25023-25030. | 1.3 | 10 |
| 111 | Nonlinear coupling states study of electromagnetic force actuated plasmonic nonlinear metamaterials. Optics Express, 2018, 26, 3211. | 1.7 | 10 |
| 112 | Study of electronic dynamics of quantum dots using resonant photoluminescence technique. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2006, 100, 716-723. | 0.2 | 9 |
| 113 | Analytical study of pulse amplification in silicon Raman amplifiers. Optics Express, 2010, 18, 18324. | 1.7 | 9 |
| 114 | Excitons in gyrotropic quantum-dot supercrystals. Optics Letters, 2017, 42, 2423. | 1.7 | 9 |
| 115 | Pellet injectors developed at the PELIN laboratory for international projects. Fusion Engineering and Design, 2001, 58-59, 295-299. | 1.0 | 8 |
| 116 | Analytical Study of RIN Transfer in Pulse-Pumped Raman Amplifiers. Journal of Lightwave Technology, 2009, 27, 4536-4543. | 2.7 | 8 |
| 117 | Theory of negative refraction in periodic stratified metamaterials. Optics Express, 2010, 18, 27916. | 1.7 | 8 |
| 118 | Effect of free carriers on pump-to-signal noise transfer in silicon Raman amplifiers. Optics Letters, 2010, 35, 2343. | 1.7 | 8 |
| 119 | Multipath Interference in Pulse-Pumped Fiber Raman Amplifiers: Analytical Approach. Journal of Lightwave Technology, 2010, 28, 2701-2707. | 2.7 | 8 |
| 120 | Optical Activity and Circular Dichroism of Perovskite Quantum-Dot Molecules. Journal of Physical Chemistry C, 2019, 123, 2658-2664. | 1.5 | 8 |
| 121 | Performance Optimization of Polymer Fibre Actuators for Soft Robotics. Polymers, 2020, 12, 454. | 2.0 | 8 |
| 122 | Maximization of Gain in Slow-Light Silicon Raman Amplifiers. International Journal of Optics, 2011, 2011, 1-7. | 0.6 | 7 |
| 123 | Manipulating energy flow in variable-gap plasmonic waveguides. Optics Letters, 2012, 37, 5151. | 1.7 | 7 |
| 124 | Design optimization of spasers considering the degeneracy of excited plasmon modes. Optics Express, 2013, 21, 15335. | 1.7 | 7 |
| 125 | Modeling nonlinear optical phenomena in silicon-nanocrystal composites and waveguides. Journal of Optics (United Kingdom), 2014, 16, 015207. | 1.0 | 7 |
| 126 | Polarization Rotation in Silicon Waveguides: Analytical Modeling and Applications. IEEE Photonics Journal, 2010, 2, 423-435. | 1.0 | 6 |

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|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 127 | Optimization of Nonlinear Performance of Silicon-Nanocrystal Cylindrical Nanowires. IEEE Photonics Journal, 2012, 4, 952-959. | 1.0 | 6 |
| 128 | Combined Effect of ASE and DRBS on Noise in Pulse-Pumped Fiber Raman Amplifiers. Journal of Lightwave Technology, 2012, 30, 2983-2987. | 2.7 | 6 |
| 129 | Engineering Profiles of Thermally Drawn Optical Fiber Tapers. Journal of Lightwave Technology, 2021, 39, 3237-3243. | 2.7 | 6 |
| 130 | Electric-field-enhanced circular dichroism of helical semiconductor nanoribbons. Optics Letters, 2019, 44, 499. | 1.7 | 6 |
| 131 | Visualization of electromagnetic-wave polarization evolution using the Poincaré sphere. Optics Letters, 2010, 35, 2221. | 1.7 | 5 |
| 132 | Analytical study of optimal design and gain parameters of double-slot plasmonic waveguides. Journal of Optics (United Kingdom), 2013, 15, 035006. | 1.0 | 5 |
| 133 | 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. | 0.8 | 5 |
| 134 | Microwave metasurface hologram for holographic imaging and its data encryption applications. Journal of Optics (United Kingdom), 0, , . | 1.0 | 5 |
| 135 | Kinetics of thermalized luminescence of a single quantum dot at room temperature. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2012, 113, 259-264. | 0.2 | 4 |
| 136 | Analytical study of optical activity of chiral-shape nanocrystals. , 2017, , . | | 4 |
| 137 | Engineering optical nonlinearities in silicon nanocrystal waveguides. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 3145. | 0.9 | 3 |
| 138 | Optical activity of helical quantum-dot supercrystals. Optics and Spectroscopy (English Translation) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 | 0.2 | 3 |
| 139 | Thermally drawn polycaprolactone fibres with customised cross sections. , 2019, , . | | 3 |
| 140 | New mechanism of intraband carrier relaxation in quantum dots. Physica Status Solidi C: Current Topics in Solid State Physics, 2003, 0, 1217-1220. | 0.8 | 2 |
| 141 | Tip-enhanced secondary emission of a semiconductor quantum dot. Physical Review B, 2008, 77, . | 1.1 | 2 |
| 142 | Novel directions in Raman amplifier research. , 2009, , . | | 2 |
| 143 | Polarization-dependent spectral broadening of femtosecond pulses in silicon waveguides. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 2383. | 0.9 | 2 |
| 144 | Kinetics of resonance luminescence of a single quantum dot at room temperature. Optics and Spectroscopy (English Translation of Optika i Spektroskopiya), 2012, 113, 265-270. | 0.2 | 2 |

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| 145 | Plasmonic Modes of Metamaterial-Based Slot Waveguides. <i>Advances in OptoElectronics</i> , 2012, 2012, 1-5. | 0.6 | 2 |
| 146 | Transient intraband absorption of light by semiconductor nanorods. <i>Journal of Optical Technology (A Translation of Opticheski Zhurnal)</i> , 2013, 80, 648. | 0.2 | 2 |
| 147 | Phonon-assisted photoluminescence from a semiconductor quantum dot with resonant electron and phonon subsystems. <i>Optics Express</i> , 2014, 22, 19707. | 1.7 | 2 |
| 148 | Absorption properties of one- and two-dimensional semiconductor nanocrystals in the presence of an electric field. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2017, 122, 101-105. | 0.2 | 2 |
| 149 | Optical activity of semiconductor nanocrystals with ionic impurities. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2017, 122, 64-68. | 0.2 | 2 |
| 150 | Effect of Extinction on Separation of Nanoparticle Enantiomers With Chiral Optical Forces. <i>IEEE Photonics Journal</i> , 2017, 9, 1-6. | 1.0 | 2 |
| 151 | Resonant mode coupling in hybrid all-dielectric metamaterial. <i>Materials Research Express</i> , 2019, 6, 125801. | 0.8 | 2 |
| 152 | Band Structure and Intersubband Transitions of Three-Layer Semiconductor Nanoplatelets. <i>Nanomaterials</i> , 2020, 10, 933. | 1.9 | 2 |
| 153 | Highly transmissive bilayer Huygensâ€™ metasurface with over 315° phase coverage. <i>AEU - International Journal of Electronics and Communications</i> , 2020, 124, 153330. | 1.7 | 2 |
| 154 | Experimental characterization of TDM-pumped distributed Raman amplifier with commercial laser diode controller. , 2010, , . | | 1 |
| 155 | Modern Trends in Metamaterial Applications. <i>Advances in OptoElectronics</i> , 2012, 2012, 1-2. | 0.6 | 1 |
| 156 | Optical properties and aging of PbS quantum dots embedded in a porous matrix. <i>Proceedings of SPIE</i> , 2013, , . | 0.8 | 1 |
| 157 | Response to "Comment on "Graphene metamaterial for optical reflection modulation" [Appl. Phys. Lett. 104, 256101 (2014)]. <i>Applied Physics Letters</i> , 2014, 104, 256102. | 1.5 | 1 |
| 158 | Optical Propagation Through Graded-Index Metamaterials in the Presence of Gain. <i>Plasmonics</i> , 2014, 9, 1257-1263. | 1.8 | 1 |
| 159 | Electroabsorption of a semiconductor nanocuboid. <i>Journal of Optical Technology (A Translation of)</i> Tj ETQq1 1 0.784314 rgBT /Overlock | 0.2 | 1 |
| 160 | Radiative decay rates of impurity states in semiconductor nanocrystals. <i>AIP Advances</i> , 2015, 5, 107126. | 0.6 | 1 |
| 161 | Maser Emission from Gravitational States on Isolated Neutron Stars. <i>Astrophysical Journal</i> , 2018, 857, 41. | 1.6 | 1 |
| 162 | Optical Activity of Semiconductor Nanosprings. <i>Optics and Spectroscopy (English Translation of)</i> Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 0 | 0.2 | 1 |

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|-----|----------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 163 | Electronic and Optical Properties of Perovskite Quantum-Dot Dimer. Semiconductors, 2019, 53, 2158-2161. | 0.2 | 1 |
| 164 | Multimaterial and Flexible Devices Made by Fiber Drawing. , 2020, , . | | 1 |
| 165 | Nonparabolicity of size-quantized subbands of bilayer semiconductor quantum wells with heterojunction. Optics Express, 2020, 28, 1657. | 1.7 | 1 |
| 166 | Raman Amplification and Tunable Pulse Delays in Silicon Waveguides. , 2010, , . | | 0 |
| 167 | Numerical modeling of optical pulse propagation in silicon waveguides: The finite-difference time-domain approach. , 2010, , . | | 0 |
| 168 | Optimum design of single-core nanowaveguide for surface plasmon polaritons. , 2011, , . | | 0 |
| 169 | Plasmonic waveguides with resonant-cavity structures for nanophotonics applications. , 2011, , . | | 0 |
| 170 | Analytical modeling of plasmonic-waveguide-based devices for nanophotonic applications. , 2011, , . | | 0 |
| 171 | Chains of metallic nanoparticles embedded in a gain medium as ideal plasmonic waveguides. , 2011, , . | | 0 |
| 172 | Propagation of surface plasmon-polaritons in linear chains of metallic nanoparticles embedded in a gain medium. , 2011, , . | | 0 |
| 173 | Phonon-assisted secondary emission from a semiconductor quantum dot in the regime of vibrational resonance. , 2012, , . | | 0 |
| 174 | Pauli equation for semiconductor quantum dot photoluminescence kinetics investigation. , 2012, , . | | 0 |
| 175 | A novel approach towards modeling TDM-pumped fiber Raman amplifiers. , 2012, , . | | 0 |
| 176 | Spectroscopy of intraband optical transitions in anisotropic semiconductor nanocrystals. , 2013, , . | | 0 |
| 177 | Nanoscale quantum-dot supercrystals. , 2013, , . | | 0 |
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