Alexander V Uskov

List of Publications by Year in descending order

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ALEXANDER VIISKOV

| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Dynamics of light propagation in spatiotemporal dielectric structures. Physical Review E, 2007, 75, 046607. | 2.1 | 124 |
| 2 | The linewidth enhancement factor $\hat{l}\pm$ of quantum dot semiconductor lasers. Optics Express, 2006, 14, 2950. | 3.4 | 119 |
| 3 | Spontaneous Hot-Electron Light Emission from Electron-Fed Optical Antennas. Nano Letters, 2015, 15, 5811-5818. | 9.1 | 85 |
| 4 | Enhanced Electron Photoemission by Collective Lattice Resonances in Plasmonic Nanoparticle-Array Photodetectors and Solar Cells. Plasmonics, 2014, 9, 283-289. | 3.4 | 60 |
| 5 | Internal photoemission from plasmonic nanoparticles: comparison between surface and volume photoelectric effects. Nanoscale, 2014, 6, 4716. | 5.6 | 52 |
| 6 | Photoemission from metal nanoparticles. Physics-Uspekhi, 2012, 55, 508-518. | 2.2 | 48 |
| 7 | Broadening of Plasmonic Resonance Due to Electron Collisions with Nanoparticle Boundary: а Quantum Mechanical Consideration. Plasmonics, 2014, 9, 185-192. | 3.4 | 48 |
| 8 | Excitation of plasmonic nanoantennas by nonresonant and resonant electron tunnelling. Nanoscale, 2016, 8, 14573-14579. | 5.6 | 40 |
| 9 | Experimental demonstration of slow and superluminal light in semiconductor optical amplifiers. Optics Express, 2006, 14, 12968. | 3.4 | 37 |
| 10 | Hot Electron Photoemission from Plasmonic Nanostructures: The Role of Surface Photoemission and Transition Absorption. ACS Photonics, 2015, 2, 1039-1048. | 6.6 | 33 |
| 11 | Photon absorption and photocurrent in solar cells below semiconductor bandgap due to electron photoemission from plasmonic nanoantennas. Progress in Photovoltaics: Research and Applications, 2014, 22, 422-426. | 8.1 | 30 |
| 12 | Control of the input efficiency of photons into solar cells with plasmonic nanoparticles. Optics Communications, 2011, 284, 2226-2229. | 2.1 | 19 |
| 13 | Auger Capture Induced Carrier Heating in Quantum Dot Lasers and Amplifiers. Applied Physics Express, 2011, 4, 022202. | 2.4 | 19 |
| 14 | Direct Plasmonic Excitation of the Hybridized Surface States in Metal Nanoparticles. ACS Photonics, 2021, 8, 2041-2049. | 6.6 | 17 |
| 15 | Chirp-enhanced fast light in semiconductor optical amplifiers. Optics Express, 2007, 15, 17631. | 3.4 | 14 |
| 16 | Giant Photogalvanic Effect in Noncentrosymmetric Plasmonic Nanoparticles. Physical Review X, 2014, 4, . | 8.9 | 14 |
| 17 | Superradiance of several atoms near a metal nanosphere. Quantum Electronics, 2015, 45, 561-572. | 1.0 | 13 |
| 18 | Electron photoemission in plasmonic nanoparticle arrays: analysis of collective resonances and embedding effects. Applied Physics A: Materials Science and Processing, 2014, 116, 929-940. | 2.3 | 12 |

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Electrically tunable fast light at THz bandwidth using cascaded semiconductor optical amplifiers. Optics Express, 2007, 15, 15863. | 3.4 | 11 |
| 20 | Biased Nanoscale Contact as Active Element for Electrically Driven Plasmonic Nanoantenna. ACS Photonics, 2017, 4, 1501-1505. | 6.6 | 10 |
| 21 | Landau Damping in Hybrid Plasmonics. Journal of Physical Chemistry Letters, 2022, 13, 997-1001. | 4.6 | 10 |
| 22 | Electromigrated electrical optical antennas for transducing electrons and photons at the nanoscale. Beilstein Journal of Nanotechnology, 2018, 9, 1964-1976. | 2.8 | 9 |
| 23 | Ultrahigh-bandwidth electrically tunable fast and slow light in semiconductor optical amplifiers [Invited]. Journal of the Optical Society of America B: Optical Physics, 2008, 25, C46. | 2.1 | 8 |
| 24 | Greatly enhanced slow and fast light in chirped pulse semiconductor optical amplifiers: Theory and experiments. Optics Express, 2009, 17, 2188. | 3.4 | 8 |
| 25 | Increasing the efficiency of organic solar cells using plasmonic nanoparticles. Technical Physics Letters, 2013, 39, 450-453. | 0.7 | 8 |
| 26 | Bulk photoemission from metal films and nanoparticles. Quantum Electronics, 2015, 45, 50-58. | 1.0 | 8 |
| 27 | Crucial Role of Metal Surface Morphology in Photon Emission from a Tunnel Junction at Ambient Conditions. Journal of Physical Chemistry C, 2019, 123, 8813-8817. | 3.1 | 8 |
| 28 | Transition absorption as a mechanism of surface photoelectron emission from metals. Physica Status Solidi - Rapid Research Letters, 2015, 9, 570-574. | 2.4 | 6 |
| 29 | Bulk Photoemission from Plasmonic Nanoantennas of Different Shapes. Journal of Physical Chemistry C, 2018, 122, 11985-11992. | 3.1 | 5 |
| 30 | Effect of quantized conductivity on the anomalous photon emission radiated from atomic-size point contacts. Nanophotonics, 2020, 9, 413-425. | 6.0 | 5 |
| 31 | Surface and volume photoeffect from metal nanoparticles with electron mass discontinuity. Physical Review B, 2021, 103, . | 3.2 | 5 |
| 32 | Landau broadening of plasmonic resonances in the Mie theory. Optics Letters, 2020, 45, 2644. | 3.3 | 5 |
| 33 | Resonance photogeneration of hot electrons through Tamm surface states. Optics Letters, 2021, 46, 568. | 3.3 | 4 |
| 34 | Hot electron photoemission in metal–semiconductor structures aided by resonance tunneling. Applied Physics Letters, 2021, 118, . | 3.3 | 4 |
| 35 | Dependence of the Electron Photoemission from Metallic Nanoparticles on Their Size. Journal of Russian Laser Research, 2014, 35, 501-508. | 0.6 | 3 |
| 36 | Plasmonic superradiance of two emitters near a metal nanorod. Journal Physics D: Applied Physics, 2017, 50, 254003. | 2.8 | 3 |

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|----|---|-----|-----------|
| 37 | Coherent surface plasmon amplification through the dissipative instability of 2D direct current. Nanophotonics, 2018, 8, 135-143. | 6.0 | 3 |
| 38 | Resonant Mass Detector Based on Carbon Nanowhiskers with Traps for Nanoobjects Weighing. Physica Status Solidi (A) Applications and Materials Science, 2018, 215, 1800046. | 1.8 | 3 |
| 39 | Dipole lasing stimulated by nano-antenna. Proceedings of SPIE, 2008, , . | 0.8 | 2 |
| 40 | Pulse-burst Er:glass laser. , 2017, , . | | 2 |
| 41 | Electrostatic Control over Optically Pumped Hot Electrons in Optical Gap Antennas. ACS Photonics, 2020, 7, 2153-2162. | 6.6 | 2 |
| 42 | Hot electron generation via internal surface photo-effect in structures with quantum well. , 2020, , . | | 2 |
| 43 | Photoemission from Metal Nanoparticles. , 0, , . | | 2 |
| 44 | Damping and feedback characteristics of quantum dot semiconductor lasers. , 2004, , . | | 1 |
| 45 | Nonlinear refractive index and pattern-effects-free cross-phase modulation in quantum dot semiconductor optical amplifiers. , 2004, , . | | 1 |
| 46 | Bistability in a Quantum Nonlinear Oscillator Excited by a Stochastic Force. Journal of Russian Laser Research, 2015, 36, 458-466. | 0.6 | 1 |
| 47 | Electrically-driven optical antennas enabled by mesoscopic contacts. , 2017, , . | | 1 |
| 48 | Metal Nanoparticles with Effective Photoemission. Journal of Russian Laser Research, 2021, 42, 650. | 0.6 | 1 |
| 49 | On pattern-effects-free operation of QD SOAs for high-speed applications. , 2004, , . | | Ο |
| 50 | Theory of nonlinear gain due to spectral hole burning in quantum dot lasers and amplifiers. , 2005, , . | | 0 |
| 51 | Slow and superluminal light based on four-wave mixing in semiconductor optical amplifiers. , 2006, , . | | 0 |
| 52 | Novel Chirp-Enhanced Tunable Fast Light of Ultra-Short Pulses in Semiconductor Optical Amplifiers. , 2008, , . | | 0 |
| 53 | Non-Contact Detection of Nonlinear Conductance in Island Metal Films. Journal of Russian Laser Research, 2013, 34, 537-552. | 0.6 | 0 |
| 54 | Plasmonic nanocone arrays as photoconductive and photovoltaic metamaterials. , 2014, , . | | 0 |

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|----|---|-----|-----------|
| 55 | Bulk photovoltaic effect in photoconductive metamaterials based on cone-shaped nanoparticles. Proceedings of SPIE, 2014, , . | 0.8 | 0 |
| 56 | Plasmonic superradiance of two emitters near metal nanorod. , 2017, , . | | 0 |
| 57 | Efficient Q-switched operation in 1.64 μm Er:YAG tapered rod laser. Proceedings of SPIE, 2017, , . | 0.8 | 0 |
| 58 | Highly stable RF signal from a mode-locked laser stabilized to multiple saturated absorption lines. , 2017, , . | | 0 |
| 59 | Superradiance with Incoherent Nonradiative Decay. Journal of Russian Laser Research, 2018, 39, 401-410. | 0.6 | 0 |
| 60 | New Design of Two-Dimensional Array of Laser Diodes With Direct Convective Cooling. IEEE Journal of Quantum Electronics, 2022, 58, 1-8. | 1.9 | 0 |