

Anatoly V Zayats

List of Publications by Year in descending order

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Version: 2024-02-01

180
papers

16,342
citations

31902

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13524
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| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Nonlocality-Enabled Pulse Management in Epsilon-Near-Zero Metamaterials. <i>Advanced Materials</i> , 2023, 35, e2107023. | 11.1 | 9 |
| 2 | Atomically Smooth Single-Crystalline Platform for Low-Loss Plasmonic Nanocavities. <i>Nano Letters</i> , 2022, 22, 1786-1794. | 4.5 | 13 |
| 3 | Plasmonic Nanocavity Induced Coupling and Boost of Dark Excitons in Monolayer WSe ₂ at Room Temperature. <i>Nano Letters</i> , 2022, 22, 1915-1921. | 4.5 | 25 |
| 4 | Integrated Janus dipole source for selective coupling to silicon waveguide networks. <i>Applied Physics Reviews</i> , 2022, 9, . | 5.5 | 6 |
| 5 | Transverse spinning of unpolarized light. <i>Nature Photonics</i> , 2021, 15, 156-161. | 15.6 | 82 |
| 6 | Directional imbalance of Bloch surface waves for ultrasensitive displacement metrology. <i>Nanoscale</i> , 2021, 13, 11041-11050. | 2.8 | 10 |
| 7 | Rational design of bimetallic photocatalysts based on plasmonically-derived hot carriers. <i>Nanoscale Advances</i> , 2021, 3, 767-780. | 2.2 | 11 |
| 8 | Rapid detection of SARS-CoV-2 viral nucleic acids based on surface enhanced infrared absorption spectroscopy. <i>Nanoscale</i> , 2021, 13, 10133-10142. | 2.8 | 25 |
| 9 | Transverse spin dynamics in structured electromagnetic guided waves. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 51 |
| 10 | Mark Stockman: Evangelist for Plasmonics. <i>ACS Photonics</i> , 2021, 8, 683-698. | 3.2 | 2 |
| 11 | Self-Assembled Plasmonic Coaxial Nanocavities for High-Definition Broad-Angle Coloring in Reflection and Transmission. <i>Advanced Optical Materials</i> , 2021, 9, 2001923. | 3.6 | 1 |
| 12 | Mode Engineering in Large Arrays of Coupled Plasmonic-Dielectric Nanoantennas. <i>Advanced Optical Materials</i> , 2021, 9, 2001467. | 3.6 | 9 |
| 13 | Angle-insensitive plasmonic nanorod metamaterial-based band-pass optical filters. <i>Optics Express</i> , 2021, 29, 11562. | 1.7 | 4 |
| 14 | Machine Learning-Based Diffractive Image Analysis with Subwavelength Resolution. <i>ACS Photonics</i> , 2021, 8, 1448-1456. | 3.2 | 17 |
| 15 | Light-induced symmetry breaking for enhancing second-harmonic generation from an ultrathin plasmonic nanocavity. <i>Nature Communications</i> , 2021, 12, 4326. | 5.8 | 54 |
| 16 | Optical spin-orbit coupling in the presence of magnetization: photonic skyrmion interaction with magnetic domains. <i>Nanophotonics</i> , 2021, 10, 3667-3675. | 2.9 | 20 |
| 17 | Dynamics of hot carriers in plasmonic heterostructures. <i>Nanophotonics</i> , 2021, 10, 2929-2938. | 2.9 | 12 |
| 18 | Ultrafast Carrier and Lattice Dynamics in Plasmonic Nanocrystalline Copper Sulfide Films. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000346. | 4.4 | 9 |

| # | ARTICLE | IF | CITATIONS |
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| 19 | Long-Range Directional Routing and Spatial Selection of High-Spin-Purity Valley Trion Emission in Monolayer WS ₂ . ACS Nano, 2021, 15, 18163-18171. | 7.3 | 14 |
| 20 | Photonic Spin Lattices: Symmetry Constraints for Skyrmion and Meron Topologies. Physical Review Letters, 2021, 127, 237403. | 2.9 | 49 |
| 21 | Optoelectronic Synapses Based on Hot-Electron-Induced Chemical Processes. Nano Letters, 2020, 20, 1536-1541. | 4.5 | 19 |
| 22 | Reconfigurable cavity-based plasmonic platform for resonantly enhanced sub-bandgap photodetection. Journal of Applied Physics, 2020, 128, 203101. | 1.1 | 4 |
| 23 | Electric Control of Spin-Orbit Coupling in Graphene-Based Nanostructures with Broken Rotational Symmetry. Laser and Photonics Reviews, 2020, 14, 2000214. | 4.4 | 7 |
| 24 | Giant Enhancement of Second-Order Nonlinearity of Epsilon-near-Zero Medium by a Plasmonic Metasurface. Nano Letters, 2020, 20, 5421-5427. | 4.5 | 69 |
| 25 | Tunneling-induced broadband and tunable optical emission from plasmonic nanorod metamaterials. Nanophotonics, 2020, 9, 427-434. | 2.9 | 13 |
| 26 | 3D Full-Color Image Projection Based on Reflective Metasurfaces under Incoherent Illumination. Nano Letters, 2020, 20, 4481-4486. | 4.5 | 13 |
| 27 | Lasing at the nanoscale: coherent emission of surface plasmons by an electrically driven nanolaser. Nanophotonics, 2020, 9, 3965-3975. | 2.9 | 12 |
| 28 | Refractive Index Sensing with Anisotropic Hyperbolic Metamaterials. Biological and Medical Physics Series, 2020, , 81-107. | 0.3 | 0 |
| 29 | Photonic Spin-orbit Coupling and Topological Properties of Evanescent Fields. , 2020, , . | | 0 |
| 30 | Polarization dependence of second harmonic generation from plasmonic nanoprism arrays. Scientific Reports, 2019, 9, 11514. | 1.6 | 11 |
| 31 | Singlet-Triplet Transition Rate Enhancement inside Hyperbolic Metamaterials. Laser and Photonics Reviews, 2019, 13, 1900101. | 4.4 | 10 |
| 32 | Designer photonic dynamics by using non-uniform electron temperature distribution for on-demand all-optical switching times. Nature Communications, 2019, 10, 2967. | 5.8 | 34 |
| 33 | Plasmonic Metamaterials for Nanochemistry and Sensing. Accounts of Chemical Research, 2019, 52, 3018-3028. | 7.6 | 85 |
| 34 | Single-nanowire spectrometers. Science, 2019, 365, 1017-1020. | 6.0 | 291 |
| 35 | Optimizing hot carrier effects in Pt-decorated plasmonic heterostructures. Faraday Discussions, 2019, 214, 387-397. | 1.6 | 15 |
| 36 | Anisotropic Plasmonic CuS Nanocrystals as a Natural Electronic Material with Hyperbolic Optical Dispersion. ACS Nano, 2019, 13, 6550-6560. | 7.3 | 30 |

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|----|---|-----|-----------|
| 37 | Experimental demonstration of linear and spinning Janus dipoles for polarisation- and wavelength-selective near-field coupling. <i>Light: Science and Applications</i> , 2019, 8, 52. | 7.7 | 40 |
| 38 | Optical forces from near-field directionalities in planar structures. <i>Physical Review B</i> , 2019, 99, . | 1.1 | 17 |
| 39 | Theory of hot electrons: general discussion. <i>Faraday Discussions</i> , 2019, 214, 245-281. | 1.6 | 34 |
| 40 | Dynamics of hot electron generation in metallic nanostructures: general discussion. <i>Faraday Discussions</i> , 2019, 214, 123-146. | 1.6 | 21 |
| 41 | New materials for hot electron generation: general discussion. <i>Faraday Discussions</i> , 2019, 214, 365-386. | 1.6 | 9 |
| 42 | Magneto-Optical Metamaterials: Nonreciprocal Transmission and Faraday Effect Enhancement. <i>Advanced Optical Materials</i> , 2019, 7, 1801420. | 3.6 | 38 |
| 43 | Deep-subwavelength features of photonic skyrmions in a confined electromagnetic field with orbital angular momentum. <i>Nature Physics</i> , 2019, 15, 650-654. | 6.5 | 176 |
| 44 | Nonlinear Nanoplasmonics. <i>Springer Series in Optical Sciences</i> , 2019, , 267-316. | 0.5 | 2 |
| 45 | Amplitude and Phase Control of Guided Modes Excitation from a Single Dipole Source: Engineering Far- and Near-Field Directionality. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900250. | 4.4 | 17 |
| 46 | Nanoparticle-based metasurfaces for angular independent spectral filtering applications. <i>Journal of Applied Physics</i> , 2019, 126, . | 1.1 | 6 |
| 47 | Nanocone-based plasmonic metamaterials. <i>Nanotechnology</i> , 2019, 30, 055301. | 1.3 | 16 |
| 48 | Spontaneous photon-pair generation from a dielectric nanoantenna. <i>Optica</i> , 2019, 6, 1416. | 4.8 | 98 |
| 49 | Geometric-Phase Metasurfaces Based on Anisotropic Reflection: Generalized Design Rules. <i>ACS Photonics</i> , 2018, 5, 1755-1761. | 3.2 | 22 |
| 50 | Spin and Geometric Phase Control Four-Wave Mixing from Metasurfaces. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800034. | 4.4 | 38 |
| 51 | Second-Harmonic Generation from Hyperbolic Plasmonic Nanorod Metamaterial Slab. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700189. | 4.4 | 43 |
| 52 | Repulsion of polarized particles from two-dimensional materials. <i>Physical Review B</i> , 2018, 97, . | 1.1 | 16 |
| 53 | Evidence of High-Order Nonlinearities in Supercontinuum White-Light Generation from a Gold Nanofilm. <i>ACS Photonics</i> , 2018, 5, 1927-1932. | 3.2 | 20 |
| 54 | Janus and Huygens Dipoles: Near-Field Directionality Beyond Spin-Momentum Locking. <i>Physical Review Letters</i> , 2018, 120, 117402. | 2.9 | 130 |

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|----|--|------|-----------|
| 55 | Reactive tunnel junctions in electrically driven plasmonic nanorod metamaterials. <i>Nature Nanotechnology</i> , 2018, 13, 159-164. | 15.6 | 95 |
| 56 | Free-electron Optical Nonlinearities in Plasmonic Nanostructures: A Review of the Hydrodynamic Description. <i>Laser and Photonics Reviews</i> , 2018, 12, 1700082. | 4.4 | 79 |
| 57 | Not every dipole is the same: the hidden patterns of dipolar near fields. <i>Europhysics News</i> , 2018, 49, 14-18. | 0.1 | 7 |
| 58 | Ultrafast Polarisation Control with Metamaterials. , 2018, , . | | 1 |
| 59 | Interferometric Evanescent Wave Excitation of a Nanoantenna for Ultrasensitive Displacement and Phase Metrology. <i>Physical Review Letters</i> , 2018, 121, 193901. | 2.9 | 26 |
| 60 | Metaparticles: Dressing Nano-Objects with a Hyperbolic Coating. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800179. | 4.4 | 28 |
| 61 | Förster Resonance Energy Transfer inside Hyperbolic Metamaterials. <i>ACS Photonics</i> , 2018, 5, 4594-4603. | 3.2 | 24 |
| 62 | Nonlinear Goniometry by Second-Harmonic Generation in AlGaAs Nanoantennas. <i>ACS Photonics</i> , 2018, 5, 4386-4392. | 3.2 | 37 |
| 63 | DNA-Assembled Plasmonic Waveguides for Nanoscale Light Propagation to a Fluorescent Nanodiamond. <i>Nano Letters</i> , 2018, 18, 7323-7329. | 4.5 | 58 |
| 64 | Circular dichroism enhancement in plasmonic nanorod metamaterials. <i>Optics Express</i> , 2018, 26, 17841. | 1.7 | 52 |
| 65 | Directional scattering from particles under evanescent wave illumination: the role of reactive power. <i>Optics Letters</i> , 2018, 43, 3393. | 1.7 | 16 |
| 66 | All-optical switching in silicon photonic waveguides with an epsilon-near-zero resonant cavity [Invited]. <i>Photonics Research</i> , 2018, 6, B1. | 3.4 | 20 |
| 67 | Imaging Electric and Magnetic Modes and Their Hybridization in Single and Dimer AlGaAs Nanoantennas. <i>Advanced Optical Materials</i> , 2018, 6, 1800664. | 3.6 | 10 |
| 68 | Generalization of the optical theorem: experimental proof for radially polarized beams. <i>Light: Science and Applications</i> , 2018, 7, 36. | 7.7 | 23 |
| 69 | Special Issue on Recent Developments and Applications of Plasmonics. <i>ACS Photonics</i> , 2018, 5, 2538-2540. | 3.2 | 2 |
| 70 | Nonlinearity-Induced Multiplexed Optical Trapping and Manipulation with Femtosecond Vector Beams. <i>Nano Letters</i> , 2018, 18, 5538-5543. | 4.5 | 82 |
| 71 | Structural second-order nonlinearity in plasmonic metamaterials. <i>Optica</i> , 2018, 5, 1502. | 4.8 | 21 |
| 72 | Ultrafast Control of Light Polarisation in Nonlinear Metamaterials. , 2018, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 73 | Spontaneous emission in non-local materials. <i>Light: Science and Applications</i> , 2017, 6, e16273-e16273. | 7.7 | 75 |
| 74 | Reflective Metasurfaces for Incoherent Light To Bring Computer Graphics Tricks to Optical Systems. <i>Nano Letters</i> , 2017, 17, 4189-4193. | 4.5 | 9 |
| 75 | Universal switching of plasmonic signals using optical resonator modes. <i>Light: Science and Applications</i> , 2017, 6, e16237-e16237. | 7.7 | 20 |
| 76 | Amplification of surface-enhanced Raman scattering due to substrate-mediated localized surface plasmons in gold nanodimers. <i>Journal of Materials Chemistry C</i> , 2017, 5, 4075-4084. | 2.7 | 44 |
| 77 | Lateral Casimir Force on a Rotating Particle near a Planar Surface. <i>Physical Review Letters</i> , 2017, 118, 133605. | 2.9 | 69 |
| 78 | Ultrafast synthesis and switching of light polarization in nonlinear anisotropic metamaterials. <i>Nature Photonics</i> , 2017, 11, 628-633. | 15.6 | 239 |
| 79 | Titanium Oxynitride Thin Films with Tunable Double Epsilon-Near-Zero Behavior for Nanophotonic Applications. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 29857-29862. | 4.0 | 91 |
| 80 | Two-Dimensional Pulse Propagation without Anomalous Dispersion. <i>Physical Review Letters</i> , 2017, 119, 114301. | 2.9 | 6 |
| 81 | Self-Assembled Silver-Germanium Nanolayer Metamaterial with the Enhanced Nonlinear Response. <i>Advanced Optical Materials</i> , 2017, 5, 1700753. | 3.6 | 16 |
| 82 | Spontaneous Emission inside a Hyperbolic Metamaterial Waveguide. <i>ACS Photonics</i> , 2017, 4, 2513-2521. | 3.2 | 43 |
| 83 | Geometry Defines Ultrafast Hot-Carrier Dynamics and Kerr Nonlinearity in Plasmonic Metamaterial Waveguides and Cavities. <i>Advanced Optical Materials</i> , 2017, 5, 1700299. | 3.6 | 25 |
| 84 | Hot-Electron Effects in Plasmonics and Plasmonic Materials. <i>Advanced Optical Materials</i> , 2017, 5, 1700508. | 3.6 | 12 |
| 85 | Hydrodynamic Model for Coherent Nonlinear Plasmonics. <i>Springer Series in Optical Sciences</i> , 2017, , 235-259. | 0.5 | 0 |
| 86 | Unidirectional evanescent-wave coupling from circularly polarized electric and magnetic dipoles: An angular spectrum approach. <i>Physical Review B</i> , 2017, 95, . | 1.1 | 51 |
| 87 | Cathodoluminescence imaging spectroscopy of single and dimer AlGaAs nano-disks. , 2017, , . | | 1 |
| 88 | Hot-carrier generation in plasmonic SiO ₂ /Au core-shell nanoparticles. , 2017, , . | | 0 |
| 89 | Sum-frequency generation and photon-pair creation in AlGaAs nano-disks. , 2017, , . | | 1 |
| 90 | Nonlinear anisotropic metamaterials. , 2017, , . | | 0 |

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| 91 | Controlling field enhancement with plasmonic nanocone metamaterials. , 2017, , . | | 0 |
| 92 | Magneto-optical nanowire metamaterials. , 2017, , . | | 0 |
| 93 | Nonlinear Optics of Plasmonic Metamaterials. , 2017, , . | | 0 |
| 94 | Figures of merit for passive and active plasmonic circuits. , 2016, , . | | 0 |
| 95 | Nonlinear propagation of surface plasmon-polaritons in gold stripe waveguides. , 2016, , . | | 0 |
| 96 | Spectral variation of fluorescence lifetime near single metal nanoparticles. Scientific Reports, 2016, 6, 21349. | 1.6 | 42 |
| 97 | Nonlocality-driven supercontinuum white light generation in plasmonic nanostructures. Nature Communications, 2016, 7, 11497. | 5.8 | 73 |
| 98 | Tunable Ultra-high Aspect Ratio Nanorod Architectures grown on Porous Substrate via Electromigration. Scientific Reports, 2016, 6, 22272. | 1.6 | 15 |
| 99 | Benchmarking System-Level Performance of Passive and Active Plasmonic Components: Integrated Circuit Approach. Proceedings of the IEEE, 2016, 104, 2338-2348. | 16.4 | 15 |
| 100 | Nonlinear optics and optomechanics with plasmonic metamaterials. , 2016, , . | | 0 |
| 101 | Interscale mixing microscopy: far-field imaging beyond the diffraction limit. Optica, 2016, 3, 803. | 4.8 | 9 |
| 102 | Stereoscopic Nanoscale-Precision Growth of Free-Standing Silver Nanorods by Electron Beam Irradiation. Journal of Physical Chemistry C, 2016, 120, 20310-20314. | 1.5 | 10 |
| 103 | Unifying physics and technology in light of Maxwell's equations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150264. | 1.6 | 2 |
| 104 | Superluminal and stopped light due to mode coupling in confined hyperbolic metamaterial waveguides. Scientific Reports, 2016, 5, 17678. | 1.6 | 29 |
| 105 | Integrated plasmonic circuitry on a vertical-cavity surface-emitting semiconductor laser platform. Nature Communications, 2016, 7, 12409. | 5.8 | 24 |
| 106 | Nonlinear Dynamics of Ultrashort Long-Range Surface Plasmon Polariton Pulses in Gold Strip Waveguides. ACS Photonics, 2016, 3, 2324-2329. | 3.2 | 27 |
| 107 | Ultrafast Optical Modulation of Second- and Third-Harmonic Generation from Cut-Disk-Based Metasurfaces. ACS Photonics, 2016, 3, 1517-1522. | 3.2 | 63 |
| 108 | Repulsion of polarised particles from anisotropic materials with a near-zero permittivity component. Light: Science and Applications, 2016, 5, e16022-e16022. | 7.7 | 25 |

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| 109 | Internal Structure Refinement of Porous Sintered Silver via Electromigration. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2016, 2016, 000190-000195. | 0.2 | 0 |
| 110 | Plasmonic Metamaterials for Nonlinear Nanophotonics. , 2016, , . | | 0 |
| 111 | Nonlinear Metamaterial Nanophotonics. , 2016, , . | | 0 |
| 112 | Hyperbolic Polaritonic Crystals Based on Nanostructured Nanorod Metamaterials. Advanced Materials, 2015, 27, 5974-5980. | 11.1 | 30 |
| 113 | Purcell effect in hyperbolic metamaterial resonators. Physical Review B, 2015, 92, . | 1.1 | 62 |
| 114 | Hyperbolic metamaterial antenna for second-harmonic generation tomography. Optics Express, 2015, 23, 30730. | 1.7 | 56 |
| 115 | Active Nanophotonic Circuitry Based on Dielectric-loaded Plasmonic Waveguides. Advanced Optical Materials, 2015, 3, 1662-1690. | 3.6 | 49 |
| 116 | Optimizing Strontium Ruthenate Thin Films for Near-Infrared Plasmonic Applications. Scientific Reports, 2015, 5, 9118. | 1.6 | 17 |
| 117 | Refractive index sensing with hyperbolic metamaterials: strategies for biosensing and nonlinearity enhancement. Optics Express, 2015, 23, 14329. | 1.7 | 82 |
| 118 | Bulk plasmon-polaritons in hyperbolic nanorod metamaterial waveguides. Laser and Photonics Reviews, 2015, 9, 345-353. | 4.4 | 104 |
| 119 | Eliminating material constraints for nonlinearity with plasmonic metamaterials. Nature Communications, 2015, 6, 7757. | 5.8 | 123 |
| 120 | Applications of plasmonics: general discussion. Faraday Discussions, 2015, 178, 435-466. | 1.6 | 17 |
| 121 | Scattering suppression from arbitrary objects in spatially dispersive layered metamaterials. Physical Review B, 2015, 91, . | 1.1 | 45 |
| 122 | Tuning the effective plasma frequency of nanorod metamaterials from visible to telecom wavelengths. Applied Physics Letters, 2015, 107, . | 1.5 | 39 |
| 123 | Lateral forces on circularly polarizable particles near a surface. Nature Communications, 2015, 6, 8799. | 5.8 | 159 |
| 124 | Spin-orbit interactions of light. Nature Photonics, 2015, 9, 796-808. | 15.6 | 1,526 |
| 125 | Nonperturbative Hydrodynamic Model for Multiple Harmonics Generation in Metallic Nanostructures. ACS Photonics, 2015, 2, 8-13. | 3.2 | 79 |
| 126 | Light emission in nonlocal plasmonic metamaterials. Faraday Discussions, 2015, 178, 61-70. | 1.6 | 22 |

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|-----|--|------|-----------|
| 127 | Plasmonic Metamaterials for Nanophotonics. , 2015, , . | | 0 |
| 128 | Electromigration Phenomena in Sintered Nanoparticle Ag Systems Under High Current Density. Additional Conferences (Device Packaging HiTEC HiTEN & CICMT), 2015, 2015, 000059-000063. | 0.2 | 0 |
| 129 | Ultrafast all-optical modulation with hyperbolic metamaterial integrated in Si photonic circuitry. Optics Express, 2014, 22, 10987. | 1.7 | 71 |
| 130 | Hydrogen Detected by the Naked Eye: Optical Hydrogen Gas Sensors Based on Core/Shell Plasmonic Nanorod Metamaterials. Advanced Materials, 2014, 26, 3532-3537. | 11.1 | 104 |
| 131 | Impact of nonradiative line broadening on emission in photonic and plasmonic cavities. Physical Review A, 2014, 90, . | 1.0 | 8 |
| 132 | Photonic spin Hall effect in hyperbolic metamaterials for polarization-controlled routing of subwavelength modes. Nature Communications, 2014, 5, 3226. | 5.8 | 229 |
| 133 | Nano-opto-mechanical effects in plasmonic waveguides. Laser and Photonics Reviews, 2014, 8, 131-136. | 4.4 | 42 |
| 134 | Spin-orbit coupling in surface plasmon scattering by nanostructures. Nature Communications, 2014, 5, 5327. | 5.8 | 250 |
| 135 | Nonlinear hyperbolic metamaterials. , 2014, , . | | 0 |
| 136 | Anisotropic plasmonic metamaterials for nanophotonic applications. , 2014, , . | | 0 |
| 137 | The room temperature phosphine-free synthesis of near-infrared emitting HgSe quantum dots. Journal of Materials Chemistry C, 2014, 2, 2107-2111. | 2.7 | 14 |
| 138 | Near-Field Hyperspectral Optical Imaging. ChemPhysChem, 2014, 15, 619-629. | 1.0 | 8 |
| 139 | Compact Optical Antenna Coupler for Silicon Photonics Characterized by Third-Harmonic Generation. ACS Photonics, 2014, 1, 912-916. | 3.2 | 22 |
| 140 | Looking into Meta-Atoms of Plasmonic Nanowire Metamaterial. Nano Letters, 2014, 14, 4971-4976. | 4.5 | 57 |
| 141 | Nonlocal optics of plasmonic nanowire metamaterials. Physical Review B, 2014, 89, . | 1.1 | 74 |
| 142 | Shaping plasmon beams via the controlled illumination of finite-size plasmonic crystals. Scientific Reports, 2014, 4, 7234. | 1.6 | 9 |
| 143 | Manipulating polarization of light with ultrathin epsilon-near-zero metamaterials. Optics Express, 2013, 21, 14907. | 1.7 | 119 |
| 144 | Ultrasensitive Non-Resonant Detection of Ultrasound with Plasmonic Metamaterials. Advanced Materials, 2013, 25, 2351-2356. | 11.1 | 54 |

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| 145 | Fabrication and optical properties of large-scale arrays of gold nanocavities based on rod-in-a-tube coaxials. Applied Physics Letters, 2013, 102, . | 1.5 | 33 |
| 146 | Plasmonic enhancement of nonlinear magneto-optical response in nickel nanorod metamaterials. Physical Review B, 2013, 87, . | 1.1 | 51 |
| 147 | Near-Field Interference for the Unidirectional Excitation of Electromagnetic Guided Modes. Science, 2013, 340, 328-330. | 6.0 | 571 |
| 148 | Optomechanical “nonlinear” light modulation on nano-scales. , 2013, , . | | 0 |
| 149 | Optical hydrogen sensors based on Au/Pd core shell nanorod arrays. , 2013, , . | | 1 |
| 150 | Broadband and broadangle SPP antennas based on plasmonic crystals with linear chirp. Scientific Reports, 2012, 2, 829. | 1.6 | 49 |
| 151 | Nonlinear plasmonics. Nature Photonics, 2012, 6, 737-748. | 15.6 | 2,200 |
| 152 | Tailoring and enhancing spontaneous two-photon emission using resonant plasmonic nanostructures. Physical Review A, 2012, 86, . | 1.0 | 34 |
| 153 | Microscopic model of Purcell enhancement in hyperbolic metamaterials. Physical Review B, 2012, 86, . | 1.1 | 99 |
| 154 | Nonlinearly coupled localized plasmon resonances: Resonant second-harmonic generation. Physical Review B, 2012, 86, . | 1.1 | 70 |
| 155 | Surface Plasmon Polariton Amplification upon Electrical Injection in Highly Integrated Plasmonic Circuits. Nano Letters, 2012, 12, 2459-2463. | 4.5 | 86 |
| 156 | Low-Temperature Plasmonics of Metallic Nanostructures. Nano Letters, 2012, 12, 1561-1565. | 4.5 | 113 |
| 157 | Active plasmonics. , 2011, , . | | 0 |
| 158 | All-Plasmonic Modulation via Stimulated Emission of Copropagating Surface Plasmon Polaritons on a Substrate with Gain. Nano Letters, 2011, 11, 2231-2235. | 4.5 | 76 |
| 159 | Four-level polarization discriminator based on a surface plasmon polaritonic crystal. Applied Physics Letters, 2011, 98, 111109. | 1.5 | 20 |
| 160 | Designed ultrafast optical nonlinearity in a plasmonic nanorod metamaterial enhanced by nonlocality. Nature Nanotechnology, 2011, 6, 107-111. | 15.6 | 432 |
| 161 | The controlled fabrication and geometry tunable optics of gold nanotube arrays. Nanotechnology, 2011, 22, 045705. | 1.3 | 29 |
| 162 | Low-Loss Multilayered Metamaterial Exhibiting a Negative Index of Refraction at Visible Wavelengths. Physical Review Letters, 2011, 106, 067402. | 2.9 | 158 |

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|-----|--|------|-----------|
| 163 | Experimental demonstration of dielectric-loaded plasmonic waveguide disk resonators at telecom wavelengths. Applied Physics Letters, 2011, 98, 161102. | 1.5 | 30 |
| 164 | Light extraction beyond total internal reflection using one-dimensional plasmonic crystals. Applied Physics Letters, 2011, 99, 081106. | 1.5 | 8 |
| 165 | The third plasmonic revolution. Nature Nanotechnology, 2010, 5, 482-483. | 15.6 | 57 |
| 166 | High-Performance Biosensing Using Arrays of Plasmonic Nanotubes. ACS Nano, 2010, 4, 2210-2216. | 7.3 | 140 |
| 167 | Hyperspectral imaging with scanning near-field optical microscopy: applications in plasmonics. Optics Express, 2010, 18, 16513. | 1.7 | 45 |
| 168 | Plasmonic waveguide as an efficient transducer for high-density data storage. Applied Physics Letters, 2009, 95, . | 1.5 | 29 |
| 169 | Plasmonic nanorod metamaterials for biosensing. Nature Materials, 2009, 8, 867-871. | 13.3 | 1,529 |
| 170 | Optical Nonlocalities and Additional Waves in Epsilon-Near-Zero Metamaterials. Physical Review Letters, 2009, 102, 127405. | 2.9 | 249 |
| 171 | Guided plasmonic modes in nanorod assemblies: strong electromagnetic coupling regime. Optics Express, 2008, 16, 7460. | 1.7 | 109 |
| 172 | Fabrication and optical properties of gold nanotube arrays. Journal of Physics Condensed Matter, 2008, 20, 362203. | 0.7 | 51 |
| 173 | Three-dimensional numerical modeling of photonic integration with dielectric-loaded SPP waveguides. Physical Review B, 2008, 78, . | 1.1 | 117 |
| 174 | Plasmonic Core/Shell Nanorod Arrays: Subattoliter Controlled Geometry and Tunable Optical Properties. Journal of Physical Chemistry C, 2007, 111, 12522-12527. | 1.5 | 51 |
| 175 | Anisotropic optical properties of arrays of gold nanorods embedded in alumina. Physical Review B, 2006, 73, . | 1.1 | 137 |
| 176 | Growth and properties of gold and nickel nanorods in thin film alumina. Nanotechnology, 2006, 17, 5746-5753. | 1.3 | 132 |
| 177 | Nano-optics of surface plasmon polaritons. Physics Reports, 2005, 408, 131-314. | 10.3 | 2,082 |
| 178 | Near-field photonics: surface plasmon polaritons and localized surface plasmons. Journal of Optics, 2003, 5, S16-S50. | 1.5 | 480 |
| 179 | Near-field second harmonic generation from a rough metal surface. Physical Review B, 1997, 56, 9290-9293. | 1.1 | 106 |
| 180 | Near-field microscopy of surface-plasmon polaritons: Localization and internal interface imaging. Physical Review B, 1995, 51, 17916-17924. | 1.1 | 97 |