

Andrei Lavrinenko

List of Publications by Year in descending order

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253
papers

6,674
citations

66343

42
h-index

76900

74
g-index

257
all docs

257
docs citations

257
times ranked

6384
citing authors

#	ARTICLE	IF	CITATIONS
1	Boundary-Induced Embedded Eigenstate in a Single Resonator for Advanced Sensing. ACS Photonics, 2022, 9, 1936-1943.	6.6	13
2	Momentum considerations inside near-zero index materials. Light: Science and Applications, 2022, 11, 110.	16.6	11
3	Pedestal High-Contrast Gratings for Biosensing. Nanomaterials, 2022, 12, 1748.	4.1	4
4	Chemical Vapor-Deposited Graphene on Ultraflat Copper Foils for van der Waals Hetero-Assembly. ACS Omega, 2022, 7, 22626-22632.	3.5	5
5	Scattering Properties of High-Permittivity Dielectric Resonators Embedded with Impedance Sheets. , 2022, , .		1
6	Photoluminescence control by hyperbolic metamaterials and metasurfaces: a review. Opto-Electronic Advances, 2021, 4, 210031-210031.	13.3	28
7	Experimental verification of a plasmonic hook in a dielectric Janus particle. Applied Physics Letters, 2021, 118, 131107.	3.3	12
8	Acceleration of radiative recombination in quasi-2D perovskite films on hyperbolic metamaterials. Applied Physics Letters, 2021, 118, .	3.3	12
9	Polarization-Dependent All-Dielectric Metasurface for Single-Shot Quantitative Phase Imaging. Nano Letters, 2021, 21, 3820-3826.	9.1	36
10	Near-Zero Index Photonic Crystals with Directive Bound States in the Continuum. Laser and Photonics Reviews, 2021, 15, 2000559.	8.7	18
11	Investigation of the optical properties of Al-doped Ag Layers. , 2021, , .		0
12	Thickness-dependent optical properties of aluminum nitride films for mid-infrared wavelengths. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2021, 39, .	2.1	14
13	A Simple Water-Based Huygens Antenna. , 2021, , .		0
14	Method of lines for the analysis of tunable plasmonic devices composed of graphene-dielectric stack arrays. Optics Express, 2021, 29, 28787.	3.4	5
15	Guided-mode resonance on pedestal and half-buried high-contrast gratings for biosensing applications. Nanophotonics, 2021, 10, 4289-4296.	6.0	15
16	Fabrication and Characterization of Hyperbolic Metamaterials. Metamaterials Science and Technology, 2021, , 1-21.	0.1	0
17	TO-phonon anisotropies in a highly doped InP (001) grating structure. Applied Physics Letters, 2021, 119, 141102.	3.3	0
18	Water-based devices for advanced control of electromagnetic waves. Applied Physics Reviews, 2021, 8, .	11.3	26

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19	Improved Sensitivity of Subwavelength Silicon Gratings for Protein Detection. , 2021, , .		0
20	Comparative study of PEALD-deposited and sputtered AlN [™] s optical properties for mid-infrared wavelengths. , 2021, , .		0
21	Mode-resolved directional enhancement of spontaneous emission inside/outside finite multilayer hyperbolic metamaterials. Materials Today Communications, 2020, 23, 100859.	1.9	4
22	Fabrication of hollow coaxial Al ₂ O ₃ /ZnAl ₂ O ₄ high aspect ratio freestanding nanotubes based on the Kirkendall effect. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	2.1	11
23	Photonic Spin Hall Effect: Contribution of Polarization Mixing Caused by Anisotropy. Quantum Reports, 2020, 2, 489-500.	1.3	23
24	A Water-Based Huygens Dielectric Resonator Antenna. IEEE Open Journal of Antennas and Propagation, 2020, 1, 493-499.	3.7	21
25	Wave Front Tuning of Coupled Hyperbolic Surface Waves on Anisotropic Interfaces. Photonics, 2020, 7, 34.	2.0	4
26	Hydrogen gas sensing using aluminum doped ZnO metasurfaces. Nanoscale Advances, 2020, 2, 3452-3459.	4.6	11
27	Engineering Nanoparticles with Pure High-Order Multipole Scattering. ACS Photonics, 2020, 7, 1067-1075.	6.6	23
28	Tunable water-based metasurface for anomalous wave reflection. Journal Physics D: Applied Physics, 2020, 53, 505104.	2.8	5
29	Hyperbolic surface waves on anisotropic materials without hyperbolic dispersion. Optics Express, 2020, 28, 33176.	3.4	7
30	Plasmonic nanojet: an experimental demonstration. Optics Letters, 2020, 45, 3244.	3.3	23
31	Microspherical nanoscopy: is it a reliable technique?. OSA Continuum, 2020, 3, 10.	1.8	7
32	Fabrication of 20 ^â ...nm period multilayer metal-dielectric structures and initial patterning tests. AIP Conference Proceedings, 2020, , .	0.4	0
33	Low Index Asymmetric Bound States in the Continuum for Low Loss Integrated Photonics. , 2020, , .		3
34	Investigation of the Lower Limit of the Applicability of Effective Medium Approximation for Hyperbolic Metamaterials. , 2019, , .		0
35	Refraction enhancement in plasmonics by coherent control of plasmon resonances. Physical Review B, 2019, 100, .	3.2	7
36	Lamellas Metamaterials: Properties and Potential Applications. , 2019, , .		0

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37	Existence Conditions of High-Order Modes in Finite Hyperbolic Metamaterials. <i>Laser and Photonics Reviews</i> , 2019, 13, 1800253.	8.7	51
38	Investigation of effective media applicability for ultrathin multilayer structures. <i>Nanoscale</i> , 2019, 11, 12582-12588.	5.6	34
39	Epsilon-Near-Zero Grids for On-chip Quantum Networks. <i>Scientific Reports</i> , 2019, 9, 6053.	3.3	15
40	Fundamental Properties of Mie Resonances in Water Cylinders – TM and TE Case Studies. , 2019, , .		0
41	First Experimental Observation of Photonic Spin Hall Effect in Hyperbolic Metamaterials at Visible Wavelengths. , 2019, , .		0
42	Electrically Small Water-Based Hemispherical Dielectric Resonator Antenna. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4848.	2.5	9
43	Direct Imaging of Isofrequency Contours of Guided Modes in Extremely Anisotropic All-Dielectric Metasurface. <i>ACS Photonics</i> , 2019, 6, 510-515.	6.6	14
44	Optics with hyperbolic materials [Invited]. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, F38.	2.1	92
45	Cryogenic characterization of titanium nitride thin films. <i>Optical Materials Express</i> , 2019, 9, 2117.	3.0	20
46	Fundamental Properties of Mie Resonances in Water Spheres. , 2019, , .		0
47	Experimental Observation of Dyakonov Plasmons in the Mid-Infrared. <i>Semiconductors</i> , 2018, 52, 442-446.	0.5	27
48	Water-Based Metasurfaces for Effective Switching of Microwaves. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2018, 17, 571-574.	4.0	18
49	High Aspect Ratio Plasmonic Nanotrench Structures with Large Active Surface Area for Label-Free Mid-Infrared Molecular Absorption Sensing. <i>ACS Applied Nano Materials</i> , 2018, 1, 1212-1218.	5.0	48
50	Subwavelength Hyperlens Resolution With Perfect Contrast Function. <i>Annalen Der Physik</i> , 2018, 530, 1700300.	2.4	6
51	Surface waves on multilayer hyperbolic metamaterials: Operator approach to effective medium approximation. <i>Physical Review B</i> , 2018, 97, .	3.2	21
52	Which Computational Methods Are Good for Analyzing Large Photonic Crystal Membrane Cavities?. , 2018, , .		0
53	Near-Field Observation of Guided-Mode Resonances on a Metasurface via Dielectric Nanosphere Excitation. <i>ACS Photonics</i> , 2018, 5, 4238-4243.	6.6	4
54	Initial Investigation for the Fabrication of Hyperbolic Metamaterials Based on Ultra-Thin Au Layers. , 2018, , .		0

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55	2 <i>π</i> steering of surface plasmon polaritons with silicon nanoantennas. Journal of Physics: Conference Series, 2018, 1092, 012140.	0.4	2
56	High Aspect Plasmonic Nanotrench Structures as Sensors in the Near- and Mid-IR Frequency Range. , 2018, , .		0
57	Pseudocanalization regime for surface waves. , 2018, , .		0
58	Effective surface conductivity of optical hyperbolic metasurfaces: from far-field characterization to surface wave analysis. Scientific Reports, 2018, 8, 14135.	3.3	31
59	Photonic spin Hall effect in hyperbolic metamaterials at visible wavelengths. Optics Letters, 2018, 43, 4602.	3.3	104
60	PT symmetry breaking in multilayers with resonant loss and gain locks light propagation direction. Physical Review B, 2018, 98, .	3.2	42
61	Benchmarking five numerical simulation techniques for computing resonance wavelengths and quality factors in photonic crystal membrane line defect cavities. Optics Express, 2018, 26, 11366.	3.4	16
62	Epsilon-Near-Zero Systems for Quantum Optics Applications. , 2018, , .		1
63	Refractive Index Sensing by High Aspect Ratio Titanium Nitride Trench Structures. , 2018, , .		0
64	Pseudocanalizing propagation with hyperbolic surface waves. , 2018, , .		0
65	Aluminum-doped Zinc Oxide Trench Hyperbolic Metamaterial as a Mid-infrared Sensing Platform. , 2018, , .		0
66	Plasmonic anisotropic metasurfaces: from far-field measurements to near-field properties. , 2018, , .		0
67	Benchmarking state-of-the-art numerical simulation techniques for analyzing large photonic crystal membrane line defect cavities. , 2018, , .		0
68	High-quality ultrathin gold layers for use in plasmonic and metamaterials applications. , 2018, , .		0
69	Broadband infrared absorption enhancement by electroless-deposited silver nanoparticles. Nanophotonics, 2017, 6, 289-297.	6.0	6
70	Light Outcoupling from Quantum Dot-Based Microdisk Laser via Plasmonic Nanoantenna. ACS Photonics, 2017, 4, 275-281.	6.6	39
71	Enhancing Optical Forces in InP-Based Waveguides. Scientific Reports, 2017, 7, 3106.	3.3	6
72	Transition from Optical Bound States in the Continuum to Leaky Resonances: Role of Substrate and Roughness. ACS Photonics, 2017, 4, 723-727.	6.6	221

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73	Midinfrared Surface Waves on a High Aspect Ratio Nanotrench Platform. ACS Photonics, 2017, 4, 2899-2907.	6.6	57
74	Direct Amplitude-Phase Near-Field Observation of Higher-Order Anapole States. Nano Letters, 2017, 17, 7152-7159.	9.1	79
75	Comparison of five computational methods for computing Q factors in photonic crystal membrane cavities. , 2017, , .		0
76	Demultiplexing surface waves with silicon nanoantennas. AIP Conference Proceedings, 2017, , .	0.4	0
77	Ultrafast nonlinear dynamics of thin gold films due to an intrinsic delayed nonlinearity. Journal of Optics (United Kingdom), 2017, 19, 094004.	2.2	5
78	Chirality Driven by Magnetic Dipole Response for Demultiplexing of Surface Waves. Laser and Photonics Reviews, 2017, 11, 1700168.	8.7	52
79	Pulling cylindrical particles using a soft-nonparaxial tractor beam. Scientific Reports, 2017, 7, 652.	3.3	14
80	Double resonant excitation of the second harmonic of terahertz radiation in dielectric-graphene layered metamaterials. Journal of Optics (United Kingdom), 2017, 19, 095104.	2.2	4
81	Optical reconfiguration and polarization control in semi-continuous gold films close to the percolation threshold. Nanoscale, 2017, 9, 12014-12024.	5.6	11
82	Photonic surface waves on metamaterial interfaces. Journal of Physics Condensed Matter, 2017, 29, 463001.	1.8	86
83	Pseudocanalization regime for magnetic dark-field hyperlenses. Physical Review B, 2017, 96, .	3.2	5
84	Advanced fabrication of hyperbolic metamaterials. AIP Conference Proceedings, 2017, , .	0.4	0
85	Highly ordered transparent conductive oxide nanopillar metamaterials for mid-infrared plasmonics. , 2017, , .		0
86	High-Quality Ultrathin Gold Layers with an APTMS Adhesion for Optimal Performance of Surface Plasmon Polariton-Based Devices. ACS Applied Materials & Interfaces, 2017, 9, 25049-25056.	8.0	46
87	Spherically symmetric inhomogeneous bianisotropic media: Wave propagation and light scattering. Physical Review A, 2017, 95, .	2.5	7
88	Tunable water-based microwave metasurface. , 2017, , .		0
89	Matter-Wave Tractor Beams. Physical Review Letters, 2017, 118, 180401.	7.8	20
90	Nonlinear optical response of chalcogenide glassy semiconductors in the IR and THz ranges studied with the femtosecond resolution in time. , 2017, , .		0

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91	Compensation of loss-induced beam broadening in HMMs by a $\hat{1}/4$ -negative HMM. , 2017, , .		0
92	Transmission enhancement in loss-gain multilayers by resonant suppression of reflection. Physical Review B, 2017, 96, .	3.2	17
93	Benchmarking five computational methods for analyzing large photonic crystal membrane cavities. , 2017, , .		1
94	Non-diffractive tractor beams. , 2017, , .		0
95	Comparison of five numerical methods for computing quality factors and resonance wavelengths in photonic crystal membrane cavities. , 2017, , .		0
96	Tunable microwave metamaterials based on ordinary water. , 2017, , .		1
97	Polarization-resolved characterization of plasmon waves supported by an anisotropic metasurface. Optics Express, 2017, 25, 32631.	3.4	28
98	Large-scale high aspect ratio Al-doped ZnO nanopillars arrays as anisotropic metamaterials. Optical Materials Express, 2017, 7, 1606.	3.0	65
99	Mid-IR optical properties of silicon doped InP. Optical Materials Express, 2017, 7, 2260.	3.0	14
100	Experimental verification of the intrinsic ultrafast delayed nonlinearity of gold. , 2017, , .		0
101	Numerical simulations of nanostructured gold films. , 2017, , .		0
102	Highly doped InP as a low loss plasmonic material for mid-IR region. Optics Express, 2016, 24, 29077.	3.4	30
103	Time-resolved terahertz spectroscopy of charge carrier dynamics in the chalcogenide glass As ₃₀ Se ₃₀ Te ₄₀ [Invited]. Photonics Research, 2016, 4, A22.	7.0	8
104	Dark-field hyperlens for high-contrast sub-wavelength imaging. , 2016, , .		0
105	Resonant excitations of the giant second harmonic in dielectric-graphene metamaterials. , 2016, , .		0
106	Nonlinear propagation of surface plasmon-polaritons in gold stripe waveguides. , 2016, , .		0
107	Fabrication of high aspect ratio TiO ₂ and Al ₂ O ₃ nanogratings by atomic layer deposition. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	2.1	37
108	Broadband terahertz spectroscopy of chalcogenide glass As ₃₀ Se ₃₀ Te ₄₀ . , 2016, , .		0

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109	Experimental demonstration of water based tunable metasurface. Applied Physics Letters, 2016, 109, .	3.3	68
110	Tailoring Spectral Properties of Binary PT-Symmetric Gratings by Duty-Cycle Methods. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 35-41.	2.9	12
111	Near-field characterization of bound plasmonic modes in metal strip waveguides. Optics Express, 2016, 24, 4582.	3.4	15
112	Graphene-Enhanced Metamaterials for THz Applications. NATO Science for Peace and Security Series B: Physics and Biophysics, 2016, , 145-169.	0.3	2
113	Effective medium approximation for deeply subwavelength all-dielectric multilayers: when does it break down?. Proceedings of SPIE, 2016, , .	0.8	0
114	Fabrication of deep-profile Al-doped ZnO one- and two-dimensional lattices as plasmonic elements. , 2016, , .		0
115	Surface waves on metal-dielectric metamaterials. , 2016, , .		1
116	Operator approach to effective medium theory to overcome a breakdown of Maxwell Garnett approximation. Physical Review B, 2016, 94, .	3.2	51
117	Design, fabrication and SNOM investigation of plasmonic devices. , 2016, , .		0
118	Homogenization of metasurfaces formed by random resonant particles in periodical lattices. Physical Review B, 2016, 93, .	3.2	23
119	Nonlinear Dynamics of Ultrashort Long-Range Surface Plasmon Polariton Pulses in Gold Strip Waveguides. ACS Photonics, 2016, 3, 2324-2329.	6.6	27
120	Nonlinear effects in propagation of long-range surface plasmon polaritons in gold strip waveguides. , 2016, , .		0
121	Nonlinear optical model for strip plasmonic waveguides. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 1341.	2.1	9
122	Third-order susceptibility of gold for ultrathin layers. Optics Letters, 2016, 41, 317.	3.3	22
123	Experimental Demonstration of Effective Medium Approximation Breakdown in Deeply Subwavelength All-Dielectric Multilayers. Physical Review Letters, 2015, 115, 177402.	7.8	62
124	Water: Promising Opportunities For Tunable All-dielectric Electromagnetic Metamaterials. Scientific Reports, 2015, 5, 13535.	3.3	176
125	Ultra-thin films for plasmonics: a technology overview. Nanotechnology Reviews, 2015, 4, .	5.8	66
126	Ultra-thin metal and dielectric layers for nanophotonic applications. , 2015, , .		1

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127	Boosting Local Field Enhancement by on-Chip Nanofocusing and Impedance-Matched Plasmonic Antennas. Nano Letters, 2015, 15, 8148-8154.	9.1	65
128	Ultrabroadband terahertz characterization of highly doped ZnO and ITO. , 2015, , .		0
129	Photoswitchable molecular dipole antennas with tailored coherent coupling in glassy composite. Light: Science and Applications, 2015, 4, e316-e316.	16.6	18
130	Applicability of point-dipoles approximation to all-dielectric metamaterials. Physical Review B, 2015, 92, .	3.2	4
131	Ultrathin, Ultrasoother Gold Layer on Dielectrics without the Use of Additional Metallic Adhesion Layers. ACS Applied Materials & Interfaces, 2015, 7, 5797-5802.	8.0	69
132	Anomalous effective medium approximation breakdown in deeply subwavelength all-dielectric photonic multilayers. Nanotechnology, 2015, 26, 184001.	2.6	33
133	Metamaterial-based design for a half-wavelength plate in the terahertz range. Applied Physics A: Materials Science and Processing, 2015, 119, 467-473.	2.3	6
134	Selective Electroless Silver Deposition on Graphene Edges. Journal of the Electrochemical Society, 2015, 162, D213-D217.	2.9	7
135	Ultrabroadband terahertz conductivity of highly doped ZnO and ITO. Optical Materials Express, 2015, 5, 566.	3.0	39
136	Dark-field hyperlens: Super-resolution imaging of weakly scattering objects. Optics Express, 2015, 23, 25350.	3.4	25
137	Optical nano-antennae as compact and efficient couplers from free-space to waveguide modes. , 2015, , .		0
138	Transparent conducting oxides for electro-optical plasmonic modulators. Nanophotonics, 2015, 4, 165-185.	6.0	141
139	Photonic and Plasmonic Guided Modes in Grapheneâ€“Silicon Photonic Crystals. ACS Photonics, 2015, 2, 1552-1558.	6.6	23
140	Nanophotonic Modulator with Bismuth Ferrite as Low-loss Switchable Material. , 2015, , .		1
141	Modeling, fabrication and high power optical characterization of plasmonic waveguides. , 2015, , .		0
142	Rough metal and dielectric layers make an even better hyperbolic metamaterial absorber. Optics Express, 2014, 22, 14975.	3.4	20
143	Metal membrane with dimer slots as a universal polarizer. Proceedings of SPIE, 2014, , .	0.8	0
144	Plasmonic Antennas Nanocoupler for Telecom Range: Simulation, Fabrication and Near-Field Characterization. , 2014, , .		0

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145	CMOS Compatible Ultra-Compact Modulator. , 2014, , .		1
146	Bismuth ferrite as low-loss switchable material for plasmonic waveguide modulator. Optics Express, 2014, 22, 28890.	3.4	24
147	Hyperbolic metamaterials based on quantum-dot plasmon-resonator nanocomposites. Optics Express, 2014, 22, 18290.	3.4	17
148	Metamaterial composite bandpass filter with an ultra-broadband rejection bandwidth of up to 240 terahertz. Applied Physics Letters, 2014, 104, 191103.	3.3	24
149	Plasmonic modulator using CMOS-compatible material platform. , 2014, , .		2
150	Bismuth ferrite for active control of surface plasmon polariton modes. , 2014, , .		0
151	Plasmonic nanocone arrays as photoconductive and photovoltaic metamaterials. , 2014, , .		0
152	From surface to volume plasmons in hyperbolic metamaterials: General existence conditions for bulk high- k waves in metal-dielectric and graphene-dielectric multilayers. Physical Review B, 2014, 90, .	3.2	53
153	Bulk photovoltaic effect in photoconductive metamaterials based on cone-shaped nanoparticles. Proceedings of SPIE, 2014, , .	0.8	0
154	Existence conditions for bulk large-wavevector waves in metal-dielectric and graphene-dielectric multilayer hyperbolic metamaterials. , 2014, , .		0
155	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
156	Internal photoemission from plasmonic nanoparticles: comparison between surface and volume photoelectric effects. Nanoscale, 2014, 6, 4716.	5.6	52
157	Photo-driven Super Absorber as an Active Metamaterial with a Tunable Molecular Plasmonic Coupling. Advanced Optical Materials, 2014, 2, 705-710.	7.3	38
158	Enhanced Electron Photoemission by Collective Lattice Resonances in Plasmonic Nanoparticle-Array Photodetectors and Solar Cells. Plasmonics, 2014, 9, 283-289.	3.4	60
159	Ultrasensitive terahertz waveguide modulators using graphene metamaterials. , 2014, , .		0
160	Photonic-band-gap engineering for volume plasmon polaritons in multiscale multilayer hyperbolic metamaterials. Physical Review A, 2014, 90, .	2.5	58
161	Giant Photogalvanic Effect in Noncentrosymmetric Plasmonic Nanoparticles. Physical Review X, 2014, 4, .	8.9	14
162	Ultrasensitive terahertz/infrared waveguide modulators based on multilayer graphene metamaterials. Laser and Photonics Reviews, 2014, 8, 916-923.	8.7	48

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163	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
164	Direct Characterization of Plasmonic Slot Waveguides and Nanocouplers. Nano Letters, 2014, 14, 3925-3929.	9.1	46
165	Dichroism, chirality, and polarization eigenstates in Babinet nanoslot-dimer membrane metamaterials. Photonics and Nanostructures - Fundamentals and Applications, 2013, 11, 353-361.	2.0	5
166	Optically active Babinet planar metamaterial film for terahertz polarization manipulation. Laser and Photonics Reviews, 2013, 7, 810-817.	8.7	27
167	Metamaterial polarization converter analysis: limits of performance. Applied Physics B: Lasers and Optics, 2013, 112, 143-152.	2.2	72
168	Plasmonic finite-thickness metal-semiconductor-metal waveguide as ultra-compact modulator. Photonics and Nanostructures - Fundamentals and Applications, 2013, 11, 323-334.	2.0	25
169	Terahertz-induced Kerr effect in amorphous chalcogenide glasses. Applied Physics Letters, 2013, 103, .	3.3	48
170	Plasmonic modulator based on thin metal-semiconductor-metal waveguide with gain core. Proceedings of SPIE, 2013, , .	0.8	2
171	Graphene metamaterials based tunable terahertz absorber: effective surface conductivity approach. Optics Express, 2013, 21, 9144.	3.4	555
172	Towards CMOS-compatible nanophotonics: Ultra-compact modulators using alternative plasmonic materials. Optics Express, 2013, 21, 27326.	3.4	125
173	Engineering the propagation of high-k bulk plasmonic waves in multilayer hyperbolic metamaterials by multiscale structuring. , 2013, , .		1
174	A plasmonic modulator based on metal-insulator-metal waveguide with barium titanate core. Photonics Letters of Poland, 2013, 5, .	0.4	8
175	Coherent matrix of plasmonic beams. Photonics Letters of Poland, 2013, 5, .	0.4	0
176	Plasmonics. Photonics Letters of Poland, 2013, 5, .	0.4	0
177	Metamaterials modelling, fabrication, and characterisation techniques. Proceedings of SPIE, 2012, , .	0.8	0
178	Graphene wire medium: Homogenization and application. , 2012, , .		0
179	Bloch-mode analysis for effective parameters restoration. , 2012, , .		0
180	Reflectors and resonators for high-k bulk Bloch plasmonic waves in multilayer hyperbolic metamaterials. , 2012, , .		0

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181	Coupled plasmon-exciton induced transparency and slow light in plexcitonic metamaterials. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2297.	2.1	18
182	Optical waveguide mode control by nanoslit-enhanced terahertz field. Optics Letters, 2012, 37, 3903.	3.3	39
183	Terahertz field enhancement to the MV/cm regime in a tapered parallel plate waveguide. Optics Express, 2012, 20, 8344.	3.4	48
184	A new method for obtaining transparent electrodes. Optics Express, 2012, 20, 22770.	3.4	52
185	Compact dipole nanoantenna coupler to plasmonic slot waveguide. Optics Letters, 2012, 37, 1124.	3.3	44
186	Ultrabroadband terahertz spectroscopy of chalcogenide glasses. Applied Physics Letters, 2012, 100, .	3.3	52
187	Improving plasmonic waveguides coupling efficiency using nanoantennas. , 2012, , .		2
188	Non-resonant terahertz field enhancement in periodically arranged nanoslits. Journal of Applied Physics, 2012, 112, .	2.5	38
189	Surface plasmon polariton modulator with optimized active layer. , 2012, , .		10
190	A new mechanism to design transparent electrodes: THz realizations. , 2012, , .		0
191	Capacity analysis for high-speed terahertz wireless communications. , 2012, , .		10
192	Finite-thickness metal-semiconductor-metal waveguide as plasmonic modulator. , 2012, , .		4
193	Graphene hyperlens for terahertz radiation. Physical Review B, 2012, 86, .	3.2	84
194	Plasmonic modulator optimized by patterning of active layer and tuning permittivity. Optics Communications, 2012, 285, 5500-5507.	2.1	43
195	Plasmonic modulator based on gain-assisted metal-semiconductor-metal waveguide. Photonics and Nanostructures - Fundamentals and Applications, 2012, 10, 389-399.	2.0	29
196	Material-Independent and Size-Independent Tractor Beams for Dipole Objects. Physical Review Letters, 2012, 109, 023902.	7.8	73
197	FIELD APPROACH IN THE TRANSFORMATION OPTICS CONCEPT. Progress in Electromagnetics Research, 2012, 129, 485-515.	4.4	10
198	Bloch-mode analysis for retrieving effective parameters of metamaterials. Physical Review B, 2012, 86, .	3.2	53

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199	Review of the results of the COST MP0702 exercise on the sensitivity of metal-dielectric layered flat lens to fabrication inaccuracies. , 2011, , .		0
200	Modeling of Nanophotonic Resonators With the Finite-Difference Frequency-Domain Method. IEEE Transactions on Antennas and Propagation, 2011, 59, 4155-4161.	5.1	15
201	Two-dimensional fractal metamaterials for applications in THz. , 2011, , .		1
202	Comparative Study of FDTD-Adopted Numerical Algorithms for Kerr Nonlinearities. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 143-146.	4.0	31
203	Microscopic model of the THz field enhancement in a metal nanoslit. Optics Communications, 2011, 284, 5495-5500.	2.1	18
204	Observation of tunneling of slow and fast electromagnetic modes in coupled periodic waveguides. Applied Physics Letters, 2011, 98, .	3.3	7
205	Enhanced broadband optical transmission in metallized woodpiles. Applied Physics A: Materials Science and Processing, 2011, 103, 749-753.	2.3	6
206	Surface Plasmon Polariton Modulator with Periodic Patterning of Indium Tin Oxide Layers. , 2011, , .		2
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