Andriy E Serebryannikov

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/907564/publications.pdf Version: 2024-02-01



#	Article	IF	CITATIONS
1	Diodelike Asymmetric Transmission of Linearly Polarized Waves Using Magnetoelectric Coupling and Electromagnetic Wave Tunneling. Physical Review Letters, 2012, 108, 213905.	7.8	195
2	Asymmetric chiral metamaterial circular polarizer based on four U-shaped split ring resonators. Optics Letters, 2011, 36, 1653.	3.3	170
3	One-way diffraction effects in photonic crystal gratings made of isotropic materials. Physical Review B, 2009, 80, .	3.2	145
4	All-Dielectric Metasurfaces Based on Cross-Shaped Resonators for Color Pixels with Extended Gamut. ACS Photonics, 2017, 4, 1076-1082.	6.6	127
5	Asymmetric transmission of linearly polarized waves and polarization angle dependent wave rotation using a chiral metamaterial. Optics Express, 2011, 19, 14290.	3.4	105
6	One-way transmission through the subwavelength slit in nonsymmetric metallic gratings. Optics Letters, 2010, 35, 2597.	3.3	68
7	Experimental validation of strong directional selectivity in nonsymmetric metallic gratings with a subwavelength slit. Applied Physics Letters, 2011, 98, .	3.3	65
8	Toward photonic crystal based spatial filters with wide angle ranges of total transmission. Applied Physics Letters, 2009, 94, .	3.3	44
9	Polarization tunable all-dielectric color filters based on cross-shaped Si nanoantennas. Scientific Reports, 2017, 7, 8092.	3.3	43
10	Fast iterative, coupled-integral-equation technique for inhomogeneous profiled and periodic slabs. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2005, 22, 2405.	1.5	42
11	Unidirectional transmission in photonic-crystal gratings at beam-type illumination. Optics Express, 2010, 18, 22283.	3.4	40
12	Multichannel optical diode with unidirectional diffraction relevant total transmission. Optics Express, 2012, 20, 14980.	3.4	40
13	Spatial filtering using dielectric photonic crystals at beam-type excitation. Journal of Applied Physics, 2010, 108, .	2.5	38
14	Spoof-plasmon relevant one-way collimation and multiplexing at beaming from a slit in metallic grating. Optics Express, 2012, 20, 26636.	3.4	32
15	Asymmetric transmission of terahertz waves using polar dielectrics. Optics Express, 2014, 22, 3075.	3.4	31
16	Radiation Properties and Coupling Analysis of a Metamaterial Based, Dual Polarization, Dual Band, Multiple Split Ring Resonator Antenna. Journal of Electromagnetic Waves and Applications, 2010, 24, 1183-1193.	1.6	30
17	VO ₂ -hBN-graphene-based bi-functional metamaterial for mid-infrared bi-tunable asymmetric transmission and nearly perfect resonant absorption. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1607.	2.1	29
18	Wideband unidirectional transmission with tunable sign-switchable refraction and deflection in nonsymmetric structures. Physical Review B, 2013, 88, .	3.2	28

ANDRIY E SEREBRYANNIKOV

#	Article	IF	CITATIONS
19	Thermally sensitive scattering of terahertz waves by coated cylinders for tunable invisibility and masking. Optics Express, 2018, 26, 1.	3.4	28
20	Toward Electrically Tunable, Lithography-Free, Ultra-Thin Color Filters Covering the Whole Visible Spectrum. Scientific Reports, 2018, 8, 11316.	3.3	26
21	One-way reciprocal spoof surface plasmons and relevant reversible diodelike beaming. Physical Review B, 2013, 87, .	3.2	22
22	Asymmetric Fabry-Perot-type transmission in photonic-crystal gratings with one-sided corrugations at a two-way coupling. Physical Review A, 2012, 86, .	2.5	20
23	Dielectric inspired scaling of polarization conversion subwavelength resonances in open ultrathin chiral structures. Applied Physics Letters, 2015, 107, .	3.3	17
24	Multiband one-way polarization conversion in complementary split-ring resonator based structures by combining chirality and tunneling. Optics Express, 2015, 23, 13517.	3.4	17
25	Analysis of the complex natural frequency spectrum of the azimuthally periodic coaxial cavity. Microwave and Optical Technology Letters, 1998, 17, 308-313.	1.4	16
26	Spatial and spatial-frequency filtering using one-dimensional graded-index lattices with defects. Optics Communications, 2009, 282, 4490-4496.	2.1	16
27	Transmissive terahertz metasurfaces with vanadium dioxide split-rings and grids for switchable asymmetric polarization manipulation. Scientific Reports, 2022, 12, 3518.	3.3	15
28	Experimental study of broadband unidirectional splitting in photonic crystal gratings with broken structural symmetry. Applied Physics Letters, 2013, 102, .	3.3	14
29	Wide-angle reflection-mode spatial filtering and splitting with photonic crystal gratings and single-layer rod gratings. Optics Letters, 2014, 39, 6193.	3.3	13
30	Characteristic Attributes of Multiple Cascaded Terahertz Metasurfaces with Magnetically Tunable Subwavelength Resonators. Annalen Der Physik, 2018, 530, 1700252.	2.4	13
31	Single and cascaded, magnetically controllable metasurfaces as terahertz filters. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 834.	2.1	12
32	Spin-wave Talbot effect in a thin ferromagnetic film. Physical Review B, 2020, 102, .	3.2	12
33	One-way absorption of terahertz waves in rod-type and multilayer structures containing polar dielectrics. Physical Review B, 2014, 90, .	3.2	11
34	Asymmetric transmission in prisms using structures and materials with isotropic-type dispersion. Optics Express, 2015, 23, 24120.	3.4	11
35	Tailoring far-infrared surface plasmon polaritons of a single-layer graphene using plasmon-phonon hybridization in graphene-LiF heterostructures. Scientific Reports, 2018, 8, 13209.	3.3	11
36	One-way Rayleigh-Wood anomalies and tunable narrowband transmission in photonic crystal gratings with broken structural symmetry. Physical Review A, 2013, 87, .	2.5	10

ANDRIY E SEREBRYANNIKOV

#	Article	IF	CITATIONS
37	Temperature-mediated invocation of the vacuum state for switchable ultrawide-angle and broadband deflection. Scientific Reports, 2018, 8, 15044.	3.3	10
38	Tunable infrared asymmetric light transmission and absorption via graphene-hBN metamaterials. Journal of Applied Physics, 2019, 126, .	2.5	10
39	One-way and near-absolute polarization insensitive near-perfect absorption by using an all-dielectric metasurface. Optics Letters, 2020, 45, 2010.	3.3	10
40	Photonic magnetic metamaterial basics. Photonics and Nanostructures - Fundamentals and Applications, 2011, 9, 15-21.	2.0	9
41	Optical characteristics of a two-dimensional dielectric photonic crystal immersed in a coherent atomic gas. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 328.	2.1	9
42	Wideband switchable unidirectional transmission in a photonic crystal with a periodically nonuniform pupil. Optics Letters, 2013, 38, 3279.	3.3	9
43	Diffraction inspired unidirectional and bidirectional beam splitting in defect-containing photonic structures without interface corrugations. Journal of Applied Physics, 2016, 119, 193108.	2.5	9
44	Broadband mixing of \$\${mathscr{P}}{mathscr{T}}\$\$-symmetric and \$\${mathscr{P}}{mathscr{T}}\$\$-broken phases in photonic heterostructures with a one-dimensional loss/gain bilayer. Scientific Reports, 2017, 7, 15504.	3.3	9
45	Tunable deflection and asymmetric transmission of THz waves using a thin slab of graphene-dielectric metamaterial, with and without ENZ components. Optical Materials Express, 2018, 8, 3887.	3.0	9
46	All-Angle Collimation for Spin Waves. IEEE Magnetics Letters, 2015, 6, 1-4.	1.1	8
47	A Route to Unusually Broadband Plasmonic Absorption Spanning from Visible to Mid-infrared. Plasmonics, 2019, 14, 1269-1281.	3.4	8
48	Embedded arrays of annular apertures with multiband near-zero-index behavior and demultiplexing capability at near-infrared. Optical Materials Express, 2019, 9, 3169.	3.0	8
49	A simple Mie-resonator based meta-array with diverse deflection scenarios enabling multifunctional operation at near-infrared. Nanophotonics, 2020, 9, 4589-4600.	6.0	8
50	Two types of single-beam deflection and asymmetric transmission in photonic structures without interface corrugations. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2016, 33, 2450.	1.5	7
51	Multiple slow waves and relevant transverse transmission and confinement in chirped photonic crystals. Optics Express, 2014, 22, 21806.	3.4	6
52	Effect of in-material losses on terahertz absorption, transmission, and reflection in photonic crystals made of polar dielectrics. Journal of Applied Physics, 2015, 118, .	2.5	6
53	Non-ideal multifrequency cloaking using strongly dispersive materials. Physica B: Condensed Matter, 2010, 405, 2959-2963.	2.7	5
54	Analysis of Non-Periodic Azimuthally Corrugated Structures by Coupled-Integral-Equations Technique. AEU - International Journal of Electronics and Communications, 2004, 58, 79-85.	2.9	4

#	Article	IF	CITATIONS
55	Dispersion irrelevant wideband asymmetric transmission in dielectric photonic crystal gratings. Optics Letters, 2012, 37, 4844.	3.3	4
56	Connection of Collimation, Asymmetric Beaming, and Independent Transmission-Reflection Processes in Concentric-Groove Gratings Supporting Spoof Surface Plasmons. Plasmonics, 2019, 14, 721-729.	3.4	4
57	Light guiding, bending, and splitting via local modification of interfaces of a photonic waveguide. Optics Letters, 2019, 44, 4725.	3.3	4
58	Study of geometric degeneracies in electromagnetic characteristics of magnetron-type corrugated cavity. International Journal of RF and Microwave Computer-Aided Engineering, 2002, 12, 320-331.	1.2	3
59	Transmission through a metallic photonic crystal immersed in a coherent atomic gas. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2151.	2.1	3
60	Ultraminiature Antennas Combining Subwavelength Resonators and a Very-High-ε Uniform Substrate: The Case of Lithium Niobate. IEEE Transactions on Antennas and Propagation, 2020, 68, 5071-5081.	5.1	3
61	Mode selection and slow-wave characteristics of groove modes of a magnetron-type cavity. Microwave and Optical Technology Letters, 1999, 21, 368-372.	1.4	2
62	Switchable photonic-crystal-grating diode using coherent atomic gas. Microwave and Optical Technology Letters, 2013, 55, 1248-1250.	1.4	2
63	Effects of Dielectric Substrate on Polarization Conversion Using Coupled Metasurfaces With and Without Tunneling. , 2017, , .		2
64	Multifunctional blazed gratings for multiband spatial filtering, retroreflection, splitting, and demultiplexing based on <i>C</i> ₂ symmetric photonic crystals. Journal of Applied Physics, 2022, 131, 223101.	2.5	2
65	A fast mode-matching-based analysis of lossy magnetron-type cavity. International Journal of RF and Microwave Computer-Aided Engineering, 2000, 10, 202-212.	1.2	1
66	Directional Selectivity through the Subwavelength Slit in Metallic Gratings. , 2011, , .		1
67	Modified Equivalent-Impedance Approach for Azimuthally Corrugated Lossy Structures. Electromagnetics, 2001, 21, 199-211.	0.7	1
68	Single–Band and Multiband Angular Filtering Using Two–Dimensional Photonic Crystals and One–Layer Gratings. , 2018, , 605-629.		1
69	Single and coupled metasurfaces for tunable polarization-sensitive terahertz filters. , 2016, , .		0
70	Polarization Based Tunable Filters Using Si Nanoantennas. , 2017, , .		0