

Andriy E Serebryannikov

List of Publications by Year in descending order

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331259

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1395
citing authors

#	ARTICLE	IF	CITATIONS
1	Diodelike Asymmetric Transmission of Linearly Polarized Waves Using Magnetoelectric Coupling and Electromagnetic Wave Tunneling. <i>Physical Review Letters</i> , 2012, 108, 213905.	2.9	195
2	Asymmetric chiral metamaterial circular polarizer based on four U-shaped split ring resonators. <i>Optics Letters</i> , 2011, 36, 1653.	1.7	170
3	One-way diffraction effects in photonic crystal gratings made of isotropic materials. <i>Physical Review B</i> , 2009, 80, .	1.1	145
4	All-Dielectric Metasurfaces Based on Cross-Shaped Resonators for Color Pixels with Extended Gamut. <i>ACS Photonics</i> , 2017, 4, 1076-1082.	3.2	127
5	Asymmetric transmission of linearly polarized waves and polarization angle dependent wave rotation using a chiral metamaterial. <i>Optics Express</i> , 2011, 19, 14290.	1.7	105
6	One-way transmission through the subwavelength slit in nonsymmetric metallic gratings. <i>Optics Letters</i> , 2010, 35, 2597.	1.7	68
7	Experimental validation of strong directional selectivity in nonsymmetric metallic gratings with a subwavelength slit. <i>Applied Physics Letters</i> , 2011, 98, .	1.5	65
8	Toward photonic crystal based spatial filters with wide angle ranges of total transmission. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	44
9	Polarization tunable all-dielectric color filters based on cross-shaped Si nanoantennas. <i>Scientific Reports</i> , 2017, 7, 8092.	1.6	43
10	Fast iterative, coupled-integral-equation technique for inhomogeneous profiled and periodic slabs. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2005, 22, 2405.	0.8	42
11	Unidirectional transmission in photonic-crystal gratings at beam-type illumination. <i>Optics Express</i> , 2010, 18, 22283.	1.7	40
12	Multichannel optical diode with unidirectional diffraction relevant total transmission. <i>Optics Express</i> , 2012, 20, 14980.	1.7	40
13	Spatial filtering using dielectric photonic crystals at beam-type excitation. <i>Journal of Applied Physics</i> , 2010, 108, .	1.1	38
14	Spoof-plasmon relevant one-way collimation and multiplexing at beaming from a slit in metallic grating. <i>Optics Express</i> , 2012, 20, 26636.	1.7	32
15	Asymmetric transmission of terahertz waves using polar dielectrics. <i>Optics Express</i> , 2014, 22, 3075.	1.7	31
16	Radiation Properties and Coupling Analysis of a Metamaterial Based, Dual Polarization, Dual Band, Multiple Split Ring Resonator Antenna. <i>Journal of Electromagnetic Waves and Applications</i> , 2010, 24, 1183-1193.	1.0	30
17	VO ₂ -hBN-graphene-based bi-functional metamaterial for mid-infrared bi-tunable asymmetric transmission and nearly perfect resonant absorption. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019, 36, 1607.	0.9	29
18	Wideband unidirectional transmission with tunable sign-switchable refraction and deflection in nonsymmetric structures. <i>Physical Review B</i> , 2013, 88, .	1.1	28

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19	Thermally sensitive scattering of terahertz waves by coated cylinders for tunable invisibility and masking. <i>Optics Express</i> , 2018, 26, 1.	1.7	28
20	Toward Electrically Tunable, Lithography-Free, Ultra-Thin Color Filters Covering the Whole Visible Spectrum. <i>Scientific Reports</i> , 2018, 8, 11316.	1.6	26
21	One-way reciprocal spoof surface plasmons and relevant reversible diodelike beaming. <i>Physical Review B</i> , 2013, 87, .	1.1	22
22	Asymmetric Fabry-Perot-type transmission in photonic-crystal gratings with one-sided corrugations at a two-way coupling. <i>Physical Review A</i> , 2012, 86, .	1.0	20
23	Dielectric inspired scaling of polarization conversion subwavelength resonances in open ultrathin chiral structures. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	17
24	Multiband one-way polarization conversion in complementary split-ring resonator based structures by combining chirality and tunneling. <i>Optics Express</i> , 2015, 23, 13517.	1.7	17
25	Analysis of the complex natural frequency spectrum of the azimuthally periodic coaxial cavity. <i>Microwave and Optical Technology Letters</i> , 1998, 17, 308-313.	0.9	16
26	Spatial and spatial-frequency filtering using one-dimensional graded-index lattices with defects. <i>Optics Communications</i> , 2009, 282, 4490-4496.	1.0	16
27	Transmissive terahertz metasurfaces with vanadium dioxide split-rings and grids for switchable asymmetric polarization manipulation. <i>Scientific Reports</i> , 2022, 12, 3518.	1.6	15
28	Experimental study of broadband unidirectional splitting in photonic crystal gratings with broken structural symmetry. <i>Applied Physics Letters</i> , 2013, 102, .	1.5	14
29	Wide-angle reflection-mode spatial filtering and splitting with photonic crystal gratings and single-layer rod gratings. <i>Optics Letters</i> , 2014, 39, 6193.	1.7	13
30	Characteristic Attributes of Multiple Cascaded Terahertz Metasurfaces with Magnetically Tunable Subwavelength Resonators. <i>Annalen Der Physik</i> , 2018, 530, 1700252.	0.9	13
31	Single and cascaded, magnetically controllable metasurfaces as terahertz filters. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2016, 33, 834.	0.9	12
32	Spin-wave Talbot effect in a thin ferromagnetic film. <i>Physical Review B</i> , 2020, 102, .	1.1	12
33	One-way absorption of terahertz waves in rod-type and multilayer structures containing polar dielectrics. <i>Physical Review B</i> , 2014, 90, .	1.1	11
34	Asymmetric transmission in prisms using structures and materials with isotropic-type dispersion. <i>Optics Express</i> , 2015, 23, 24120.	1.7	11
35	Tailoring far-infrared surface plasmon polaritons of a single-layer graphene using plasmon-phonon hybridization in graphene-LiF heterostructures. <i>Scientific Reports</i> , 2018, 8, 13209.	1.6	11
36	One-way Rayleigh-Wood anomalies and tunable narrowband transmission in photonic crystal gratings with broken structural symmetry. <i>Physical Review A</i> , 2013, 87, .	1.0	10

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37	Temperature-mediated invocation of the vacuum state for switchable ultrawide-angle and broadband deflection. <i>Scientific Reports</i> , 2018, 8, 15044.	1.6	10
38	Tunable infrared asymmetric light transmission and absorption via graphene-hBN metamaterials. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	10
39	One-way and near-absolute polarization insensitive near-perfect absorption by using an all-dielectric metasurface. <i>Optics Letters</i> , 2020, 45, 2010.	1.7	10
40	Photonic magnetic metamaterial basics. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2011, 9, 15-21.	1.0	9
41	Optical characteristics of a two-dimensional dielectric photonic crystal immersed in a coherent atomic gas. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 328.	0.9	9
42	Wideband switchable unidirectional transmission in a photonic crystal with a periodically nonuniform pupil. <i>Optics Letters</i> , 2013, 38, 3279.	1.7	9
43	Diffraction inspired unidirectional and bidirectional beam splitting in defect-containing photonic structures without interface corrugations. <i>Journal of Applied Physics</i> , 2016, 119, 193108.	1.1	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. <i>Scientific Reports</i> , 2017, 7, 15504.	1.6	9
45	Tunable deflection and asymmetric transmission of THz waves using a thin slab of graphene-dielectric metamaterial, with and without ENZ components. <i>Optical Materials Express</i> , 2018, 8, 3887.	1.6	9
46	All-Angle Collimation for Spin Waves. <i>IEEE Magnetics Letters</i> , 2015, 6, 1-4.	0.6	8
47	A Route to Unusually Broadband Plasmonic Absorption Spanning from Visible to Mid-infrared. <i>Plasmonics</i> , 2019, 14, 1269-1281.	1.8	8
48	Embedded arrays of annular apertures with multiband near-zero-index behavior and demultiplexing capability at near-infrared. <i>Optical Materials Express</i> , 2019, 9, 3169.	1.6	8
49	A simple Mie-resonator based meta-array with diverse deflection scenarios enabling multifunctional operation at near-infrared. <i>Nanophotonics</i> , 2020, 9, 4589-4600.	2.9	8
50	Two types of single-beam deflection and asymmetric transmission in photonic structures without interface corrugations. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2016, 33, 2450.	0.8	7
51	Multiple slow waves and relevant transverse transmission and confinement in chirped photonic crystals. <i>Optics Express</i> , 2014, 22, 21806.	1.7	6
52	Effect of in-material losses on terahertz absorption, transmission, and reflection in photonic crystals made of polar dielectrics. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	6
53	Non-ideal multifrequency cloaking using strongly dispersive materials. <i>Physica B: Condensed Matter</i> , 2010, 405, 2959-2963.	1.3	5
54	Analysis of Non-Periodic Azimuthally Corrugated Structures by Coupled-Integral-Equations Technique. <i>AEU - International Journal of Electronics and Communications</i> , 2004, 58, 79-85.	1.7	4

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55	Dispersion irrelevant wideband asymmetric transmission in dielectric photonic crystal gratings. Optics Letters, 2012, 37, 4844.	1.7	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.	1.8	4
57	Light guiding, bending, and splitting via local modification of interfaces of a photonic waveguide. Optics Letters, 2019, 44, 4725.	1.7	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.	0.8	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.	0.9	3
60	Ultraminiature Antennas Combining Subwavelength Resonators and a Very-High- ϵ_u Uniform Substrate: The Case of Lithium Niobate. IEEE Transactions on Antennas and Propagation, 2020, 68, 5071-5081.	3.1	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.	0.9	2
62	Switchable photonic-crystal-grating diode using coherent atomic gas. Microwave and Optical Technology Letters, 2013, 55, 1248-1250.	0.9	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 C_2 symmetric photonic crystals. Journal of Applied Physics, 2022, 131, 223101.	1.1	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.	0.8	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.	0.3	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