Andriy E Serebryannikov

List of Publications by Year in Descending Order

65 papers	1,394 citations	19 h-index	36 g-index
71 ext. papers	1,590 ext. citations	2.9 avg, IF	4.88 L-index

#	Paper	IF	Citations
65	Transmissive terahertz metasurfaces with vanadium dioxide split-rings and grids for switchable asymmetric polarization manipulation.. *Scientific Reports*, **2022**, 12, 3518	4.9	4
64	. *IEEE Transactions on Antennas and Propagation*, **2020**, 68, 5071-5081	4.9	
63	One-way and near-absolute polarization insensitive near-perfect absorption by using an all-dielectric metasurface. *Optics Letters*, **2020**, 45, 2010-2013	3	6
62	A simple Mie-resonator based meta-array with diverse deflection scenarios enabling multifunctional operation at near-infrared. *Nanophotonics*, **2020**, 9, 4589-4600	6.3	3
61	Spin-wave Talbot effect in a thin ferromagnetic film. *Physical Review B*, **2020**, 102,	3.3	2
60	A Route to Unusually Broadband Plasmonic Absorption Spanning from Visible to Mid-infrared. *Plasmonics*, **2019**, 14, 1269-1281	2.4	5
59	VO2-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	1.7	29
58	Light guiding, bending, and splitting via local modification of interfaces of a photonic waveguide. *Optics Letters*, **2019**, 44, 4725-4728	3	2
57	Embedded arrays of annular apertures with multiband near-zero-index behavior and demultiplexing capability at near-infrared. *Optical Materials Express*, **2019**, 9, 3169	2.6	4
56	Tunable infrared asymmetric light transmission and absorption via graphene-hBN metamaterials. *Journal of Applied Physics*, **2019**, 126, 193102	2.5	7
55	Connection of Collimation, Asymmetric Beaming, and Independent Transmission-Reflection Processes in Concentric-Groove Gratings Supporting Spoof Surface Plasmons. *Plasmonics*, **2019**, 14, 721-729	2.4	4
54	Thermally sensitive scattering of terahertz waves by coated cylinders for tunable invisibility and masking. *Optics Express*, **2018**, 26, 1-14	3.3	19
53	Toward Electrically Tunable, Lithography-Free, Ultra-Thin Color Filters Covering the Whole Visible Spectrum. *Scientific Reports*, **2018**, 8, 11316	4.9	16
52	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	2.6	9
51	SingleBand and Multiband Angular Filtering Using TwoDimensional Photonic Crystals and OneLayer Gratings **2018**, 605-629		1
50	Characteristic Attributes of Multiple Cascaded Terahertz Metasurfaces with Magnetically Tunable Subwavelength Resonators. *Annalen Der Physik*, **2018**, 530, 1700252	2.6	7
49	Temperature-mediated invocation of the vacuum state for switchable ultrawide-angle and broadband deflection. *Scientific Reports*, **2018**, 8, 15044	4.9	7

48	Tailoring far-infrared surface plasmon polaritons of a single-layer graphene using plasmon-phonon hybridization in graphene-LiF heterostructures. *Scientific Reports*, **2018**, 8, 13209	4.9	9
47	All-Dielectric Metasurfaces Based on Cross-Shaped Resonators for Color Pixels with Extended Gamut. *ACS Photonics*, **2017**, 4, 1076-1082	6.3	94
46	Polarization tunable all-dielectric color filters based on cross-shaped Si nanoantennas. *Scientific Reports*, **2017**, 7, 8092	4.9	33
45	Broadband mixing of [Formula: see text]-symmetric and [Formula: see text]-broken phases in photonic heterostructures with a one-dimensional loss/gain bilayer. *Scientific Reports*, **2017**, 7, 15504	4.9	6
44	Effects of Dielectric Substrate on Polarization Conversion Using Coupled Metasurfaces With and Without Tunneling **2017**,		1
43	Single and cascaded, magnetically controllable metasurfaces as terahertz filters. *Journal of the Optical Society of America B: Optical Physics*, **2016**, 33, 834	1.7	9
42	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, 2450-2458	1.8	5
41	Diffraction inspired unidirectional and bidirectional beam splitting in defect-containing photonic structures without interface corrugations. *Journal of Applied Physics*, **2016**, 119, 193108	2.5	7
40	Multiband one-way polarization conversion in complementary split-ring resonator based structures by combining chirality and tunneling. *Optics Express*, **2015**, 23, 13517-29	3.3	15
39	Asymmetric transmission in prisms using structures and materials with isotropic-type dispersion. *Optics Express*, **2015**, 23, 24120-32	3.3	10
38	All-Angle Collimation for Spin Waves. *IEEE Magnetics Letters*, **2015**, 6, 1-4	1.6	5
37	Dielectric inspired scaling of polarization conversion subwavelength resonances in open ultrathin chiral structures. *Applied Physics Letters*, **2015**, 107, 221907	3.4	17
36	Effect of in-material losses on terahertz absorption, transmission, and reflection in photonic crystals made of polar dielectrics. *Journal of Applied Physics*, **2015**, 118, 133101	2.5	5
35	Wide-angle reflection-mode spatial filtering and splitting with photonic crystal gratings and single-layer rod gratings. *Optics Letters*, **2014**, 39, 6193-6	3	7
34	Asymmetric transmission of terahertz waves using polar dielectrics. *Optics Express*, **2014**, 22, 3075-88	3.3	26
33	Multiple slow waves and relevant transverse transmission and confinement in chirped photonic crystals. *Optics Express*, **2014**, 22, 21806-19	3.3	5
32	One-way absorption of terahertz waves in rod-type and multilayer structures containing polar dielectrics. *Physical Review B*, **2014**, 90,	3.3	10
31	Wideband unidirectional transmission with tunable sign-switchable refraction and deflection in nonsymmetric structures. *Physical Review B*, **2013**, 88,	3.3	20

30	Experimental study of broadband unidirectional splitting in photonic crystal gratings with broken structural symmetry. *Applied Physics Letters*, **2013**, 102, 151105	3.4	13
29	One-way Rayleigh-Wood anomalies and tunable narrowband transmission in photonic crystal gratings with broken structural symmetry. *Physical Review A*, **2013**, 87,	2.6	10
28	One-way reciprocal spoof surface plasmons and relevant reversible diodelike beaming. *Physical Review B*, **2013**, 87,	3.3	20
27	Wideband switchable unidirectional transmission in a photonic crystal with a periodically nonuniform pupil. *Optics Letters*, **2013**, 38, 3279-82	3	9
26	Switchable photonic-crystal-grating diode using coherent atomic gas. *Microwave and Optical Technology Letters*, **2013**, 55, 1248-1250	1.2	2
25	Asymmetric Fabry-Perot-type transmission in photonic-crystal gratings with one-sided corrugations at a two-way coupling. *Physical Review A*, **2012**, 86,	2.6	15
24	Multichannel optical diode with unidirectional diffraction relevant total transmission. *Optics Express*, **2012**, 20, 14980-90	3.3	34
23	Spoof-plasmon relevant one-way collimation and multiplexing at beaming from a slit in metallic grating. *Optics Express*, **2012**, 20, 26636-48	3.3	27
22	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	1.7	7
21	Dispersion irrelevant wideband asymmetric transmission in dielectric photonic crystal gratings. *Optics Letters*, **2012**, 37, 4844-6	3	4
20	Diodelike asymmetric transmission of linearly polarized waves using magnetoelectric coupling and electromagnetic wave tunneling. *Physical Review Letters*, **2012**, 108, 213905	7.4	169
19	Asymmetric transmission of linearly polarized waves and polarization angle dependent wave rotation using a chiral metamaterial. *Optics Express*, **2011**, 19, 14290-9	3.3	89
18	Asymmetric chiral metamaterial circular polarizer based on four U-shaped split ring resonators. *Optics Letters*, **2011**, 36, 1653-5	3	142
17	Photonic magnetic metamaterial basics. *Photonics and Nanostructures - Fundamentals and Applications*, **2011**, 9, 15-21	2.6	9
16	Experimental validation of strong directional selectivity in nonsymmetric metallic gratings with a subwavelength slit. *Applied Physics Letters*, **2011**, 98, 051103	3.4	60
15	Spatial filtering using dielectric photonic crystals at beam-type excitation. *Journal of Applied Physics* , **2010**, 108, 113106	2.5	27
14	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	1.3	28
13	Unidirectional transmission in photonic-crystal gratings at beam-type illumination. *Optics Express*, **2010**, 18, 22283-98	3.3	32

12	One-way transmission through the subwavelength slit in nonsymmetric metallic gratings. *Optics Letters*, **2010**, 35, 2597-9	3	55
11	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	1.7	3
10	Non-ideal multifrequency cloaking using strongly dispersive materials. *Physica B: Condensed Matter*, **2010**, 405, 2959-2963	2.8	4
9	Spatial and spatial-frequency filtering using one-dimensional graded-index lattices with defects. *Optics Communications*, **2009**, 282, 4490-4496	2	13
8	One-way diffraction effects in photonic crystal gratings made of isotropic materials. *Physical Review B*, **2009**, 80,	3.3	124
7	Toward photonic crystal based spatial filters with wide angle ranges of total transmission. *Applied Physics Letters*, **2009**, 94, 181101	3.4	32
6	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, 2405-18	1.8	35
5	Analysis of Non-Periodic Azimuthally Corrugated Structures by Coupled-Integral-Equations Technique. *AEU - International Journal of Electronics and Communications*, **2004**, 58, 79-85	2.8	3
4	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	1.5	3
3	A fast mode-matching-based analysis of lossy magnetron-type cavity. *International Journal of RF and Microwave Computer-Aided Engineering*, **2000**, 10, 202-212	1.5	1
2	Mode selection and slow-wave characteristics of groove modes of a magnetron-type cavity. *Microwave and Optical Technology Letters*, **1999**, 21, 368-372	1.2	2
1	Analysis of the complex natural frequency spectrum of the azimuthally periodic coaxial cavity. *Microwave and Optical Technology Letters*, **1998**, 17, 308-313	1.2	12