

# Andriy E Serebryannikov

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/907564/andriy-e-serebryannikov-publications-by-citations.pdf>

**Version:** 2024-04-25

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Diodelike asymmetric transmission of linearly polarized waves using magnetoelectric coupling and electromagnetic wave tunneling. <i>Physical Review Letters</i> , <b>2012</b> , 108, 213905	7.4	169
64	Asymmetric chiral metamaterial circular polarizer based on four U-shaped split ring resonators. <i>Optics Letters</i> , <b>2011</b> , 36, 1653-5	3	142
63	One-way diffraction effects in photonic crystal gratings made of isotropic materials. <i>Physical Review B</i> , <b>2009</b> , 80,	3.3	124
62	All-Dielectric Metasurfaces Based on Cross-Shaped Resonators for Color Pixels with Extended Gamut. <i>ACS Photonics</i> , <b>2017</b> , 4, 1076-1082	6.3	94
61	Asymmetric transmission of linearly polarized waves and polarization angle dependent wave rotation using a chiral metamaterial. <i>Optics Express</i> , <b>2011</b> , 19, 14290-9	3.3	89
60	Experimental validation of strong directional selectivity in nonsymmetric metallic gratings with a subwavelength slit. <i>Applied Physics Letters</i> , <b>2011</b> , 98, 051103	3.4	60
59	One-way transmission through the subwavelength slit in nonsymmetric metallic gratings. <i>Optics Letters</i> , <b>2010</b> , 35, 2597-9	3	55
58	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> , <b>2005</b> , 22, 2405-18	1.8	35
57	Multichannel optical diode with unidirectional diffraction relevant total transmission. <i>Optics Express</i> , <b>2012</b> , 20, 14980-90	3.3	34
56	Polarization tunable all-dielectric color filters based on cross-shaped Si nanoantennas. <i>Scientific Reports</i> , <b>2017</b> , 7, 8092	4.9	33
55	Unidirectional transmission in photonic-crystal gratings at beam-type illumination. <i>Optics Express</i> , <b>2010</b> , 18, 22283-98	3.3	32
54	Toward photonic crystal based spatial filters with wide angle ranges of total transmission. <i>Applied Physics Letters</i> , <b>2009</b> , 94, 181101	3.4	32
53	VO <sub>2</sub> -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> , <b>2019</b> , 36, 1607	1.7	29
52	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> , <b>2010</b> , 24, 1183-1193 <sup>28</sup>	1.3	28
51	Spatial filtering using dielectric photonic crystals at beam-type excitation. <i>Journal of Applied Physics</i> , <b>2010</b> , 108, 113106	2.5	27
50	Spoof-plasmon relevant one-way collimation and multiplexing at beaming from a slit in metallic grating. <i>Optics Express</i> , <b>2012</b> , 20, 26636-48	3.3	27
49	Asymmetric transmission of terahertz waves using polar dielectrics. <i>Optics Express</i> , <b>2014</b> , 22, 3075-88	3.3	26

48	Wideband unidirectional transmission with tunable sign-switchable refraction and deflection in nonsymmetric structures. <i>Physical Review B</i> , <b>2013</b> , 88,	3-3	20
47	One-way reciprocal spoof surface plasmons and relevant reversible diodelike beaming. <i>Physical Review B</i> , <b>2013</b> , 87,	3-3	20
46	Thermally sensitive scattering of terahertz waves by coated cylinders for tunable invisibility and masking. <i>Optics Express</i> , <b>2018</b> , 26, 1-14	3-3	19
45	Dielectric inspired scaling of polarization conversion subwavelength resonances in open ultrathin chiral structures. <i>Applied Physics Letters</i> , <b>2015</b> , 107, 221907	3-4	17
44	Toward Electrically Tunable, Lithography-Free, Ultra-Thin Color Filters Covering the Whole Visible Spectrum. <i>Scientific Reports</i> , <b>2018</b> , 8, 11316	4-9	16
43	Multiband one-way polarization conversion in complementary split-ring resonator based structures by combining chirality and tunneling. <i>Optics Express</i> , <b>2015</b> , 23, 13517-29	3-3	15
42	Asymmetric Fabry-Perot-type transmission in photonic-crystal gratings with one-sided corrugations at a two-way coupling. <i>Physical Review A</i> , <b>2012</b> , 86,	2.6	15
41	Experimental study of broadband unidirectional splitting in photonic crystal gratings with broken structural symmetry. <i>Applied Physics Letters</i> , <b>2013</b> , 102, 151105	3-4	13
40	Spatial and spatial-frequency filtering using one-dimensional graded-index lattices with defects. <i>Optics Communications</i> , <b>2009</b> , 282, 4490-4496	2	13
39	Analysis of the complex natural frequency spectrum of the azimuthally periodic coaxial cavity. <i>Microwave and Optical Technology Letters</i> , <b>1998</b> , 17, 308-313	1.2	12
38	Asymmetric transmission in prisms using structures and materials with isotropic-type dispersion. <i>Optics Express</i> , <b>2015</b> , 23, 24120-32	3-3	10
37	One-way absorption of terahertz waves in rod-type and multilayer structures containing polar dielectrics. <i>Physical Review B</i> , <b>2014</b> , 90,	3-3	10
36	One-way Rayleigh-Wood anomalies and tunable narrowband transmission in photonic crystal gratings with broken structural symmetry. <i>Physical Review A</i> , <b>2013</b> , 87,	2.6	10
35	Single and cascaded, magnetically controllable metasurfaces as terahertz filters. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2016</b> , 33, 834	1.7	9
34	Wideband switchable unidirectional transmission in a photonic crystal with a periodically nonuniform pupil. <i>Optics Letters</i> , <b>2013</b> , 38, 3279-82	3	9
33	Photonic magnetic metamaterial basics. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , <b>2011</b> , 9, 15-21	2.6	9
32	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> , <b>2018</b> , 8, 3887	2.6	9
31	Tailoring far-infrared surface plasmon polaritons of a single-layer graphene using plasmon-phonon hybridization in graphene-LiF heterostructures. <i>Scientific Reports</i> , <b>2018</b> , 8, 13209	4-9	9

30	Wide-angle reflection-mode spatial filtering and splitting with photonic crystal gratings and single-layer rod gratings. <i>Optics Letters</i> , <b>2014</b> , 39, 6193-6	3	7
29	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> , <b>2012</b> , 29, 328	1.7	7
28	Diffraction inspired unidirectional and bidirectional beam splitting in defect-containing photonic structures without interface corrugations. <i>Journal of Applied Physics</i> , <b>2016</b> , 119, 193108	2.5	7
27	Tunable infrared asymmetric light transmission and absorption via graphene-hBN metamaterials. <i>Journal of Applied Physics</i> , <b>2019</b> , 126, 193102	2.5	7
26	Characteristic Attributes of Multiple Cascaded Terahertz Metasurfaces with Magnetically Tunable Subwavelength Resonators. <i>Annalen Der Physik</i> , <b>2018</b> , 530, 1700252	2.6	7
25	Temperature-mediated invocation of the vacuum state for switchable ultrawide-angle and broadband deflection. <i>Scientific Reports</i> , <b>2018</b> , 8, 15044	4.9	7
24	Broadband mixing of [Formula: see text]-symmetric and [Formula: see text]-broken phases in photonic heterostructures with a one-dimensional loss/gain bilayer. <i>Scientific Reports</i> , <b>2017</b> , 7, 15504	4.9	6
23	One-way and near-absolute polarization insensitive near-perfect absorption by using an all-dielectric metasurface. <i>Optics Letters</i> , <b>2020</b> , 45, 2010-2013	3	6
22	A Route to Unusually Broadband Plasmonic Absorption Spanning from Visible to Mid-infrared. <i>Plasmonics</i> , <b>2019</b> , 14, 1269-1281	2.4	5
21	All-Angle Collimation for Spin Waves. <i>IEEE Magnetics Letters</i> , <b>2015</b> , 6, 1-4	1.6	5
20	Effect of in-material losses on terahertz absorption, transmission, and reflection in photonic crystals made of polar dielectrics. <i>Journal of Applied Physics</i> , <b>2015</b> , 118, 133101	2.5	5
19	Multiple slow waves and relevant transverse transmission and confinement in chirped photonic crystals. <i>Optics Express</i> , <b>2014</b> , 22, 21806-19	3.3	5
18	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> , <b>2016</b> , 33, 2450-2458	1.8	5
17	Dispersion irrelevant wideband asymmetric transmission in dielectric photonic crystal gratings. <i>Optics Letters</i> , <b>2012</b> , 37, 4844-6	3	4
16	Non-ideal multifrequency cloaking using strongly dispersive materials. <i>Physica B: Condensed Matter</i> , <b>2010</b> , 405, 2959-2963	2.8	4
15	Embedded arrays of annular apertures with multiband near-zero-index behavior and demultiplexing capability at near-infrared. <i>Optical Materials Express</i> , <b>2019</b> , 9, 3169	2.6	4
14	Connection of Collimation, Asymmetric Beaming, and Independent Transmission-Reflection Processes in Concentric-Groove Gratings Supporting Spoof Surface Plasmons. <i>Plasmonics</i> , <b>2019</b> , 14, 721-729	2.4	4
13	Transmissive terahertz metasurfaces with vanadium dioxide split-rings and grids for switchable asymmetric polarization manipulation.. <i>Scientific Reports</i> , <b>2022</b> , 12, 3518	4.9	4

12	Transmission through a metallic photonic crystal immersed in a coherent atomic gas. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2010</b> , 27, 2151	1.7	3
11	Analysis of Non-Periodic Azimuthally Corrugated Structures by Coupled-Integral-Equations Technique. <i>AEU - International Journal of Electronics and Communications</i> , <b>2004</b> , 58, 79-85	2.8	3
10	Study of geometric degeneracies in electromagnetic characteristics of magnetron-type corrugated cavity. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2002</b> , 12, 320-331	1.5	3
9	A simple Mie-resonator based meta-array with diverse deflection scenarios enabling multifunctional operation at near-infrared. <i>Nanophotonics</i> , <b>2020</b> , 9, 4589-4600	6.3	3
8	Switchable photonic-crystal-grating diode using coherent atomic gas. <i>Microwave and Optical Technology Letters</i> , <b>2013</b> , 55, 1248-1250	1.2	2
7	Mode selection and slow-wave characteristics of groove modes of a magnetron-type cavity. <i>Microwave and Optical Technology Letters</i> , <b>1999</b> , 21, 368-372	1.2	2
6	Light guiding, bending, and splitting via local modification of interfaces of a photonic waveguide. <i>Optics Letters</i> , <b>2019</b> , 44, 4725-4728	3	2
5	Spin-wave Talbot effect in a thin ferromagnetic film. <i>Physical Review B</i> , <b>2020</b> , 102,	3.3	2
4	Effects of Dielectric Substrate on Polarization Conversion Using Coupled Metasurfaces With and Without Tunneling <b>2017</b> ,		1
3	A fast mode-matching-based analysis of lossy magnetron-type cavity. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2000</b> , 10, 202-212	1.5	1
2	SingleBand and Multiband Angular Filtering Using TwoDimensional Photonic Crystals and OneLayer Gratings <b>2018</b> , 605-629		1
1	. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2020</b> , 68, 5071-5081	4.9	