

Sergei A Khakhomov

List of Publications by Citations

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

60
papers

460
citations

12
h-index

19
g-index

76
ext. papers

583
ext. citations

1.6
avg, IF

3.57
L-index

#	Paper	IF	Citations
60	Broadband Reflectionless Metasheets: Frequency-Selective Transmission and Perfect Absorption. <i>Physical Review X</i> , 2015 , 5,	9.1	90
59	Ground-plane-less bidirectional terahertz absorber based on omega resonators. <i>Optics Letters</i> , 2015 , 40, 2084-7	3	40
58	Modeling of Spirals with Equal Dielectric, Magnetic, and Chiral Susceptibilities. <i>Electromagnetics</i> , 2008 , 28, 476-493	0.8	32
57	Coordinated multi-band angle insensitive selection absorber based on graphene metamaterials. <i>Optics Express</i> , 2019 , 27, 31435-31445	3.3	32
56	Transformation of the polarization of electromagnetic waves by helical radiators. <i>Journal of Communications Technology and Electronics</i> , 2007 , 52, 850-855	0.5	23
55	Optimal helix shape: Equality of dielectric, magnetic, and chiral susceptibilities. <i>Russian Physics Journal</i> , 2009 , 52, 472-479	0.7	17
54	Reflection and transmission by a uniaxially bi-anisotropic slab under normal incidence of plane waves. <i>Journal Physics D: Applied Physics</i> , 1998 , 31, 2458-2464	3	17
53	Chiral metamaterial with unit negative refraction index. <i>EPJ Applied Physics</i> , 2009 , 46, 32607	1.1	15
52	Sensors With Multifold Nanorod Metasurfaces Array Based on Hyperbolic Metamaterials. <i>IEEE Sensors Journal</i> , 2020 , 20, 1801-1806	4	15
51	Highly transparent twist polarizer metasurface. <i>Applied Physics Letters</i> , 2017 , 111, 111108	3.4	13
50	Study of the properties of artificial anisotropic structures with high chirality. <i>Crystallography Reports</i> , 2011 , 56, 366-373	0.6	13
49	Helices of optimal shape for nonreflecting covering. <i>EPJ Applied Physics</i> , 2010 , 49, 33002	1.1	12
48	Stored and absorbed energy of fields in lossy chiral single-component metamaterials. <i>Physical Review B</i> , 2018 , 97,	3.3	10
47	Polarization Plane Rotation of Electromagnetic Waves by the Artificial Periodic Structure with One-Turn Helical Elements. <i>Electromagnetics</i> , 2006 , 26, 219-233	0.8	10
46	Artificial Uniaxial Bianisotropic Media at Oblique Incidence of Electromagnetic Waves. <i>Electromagnetics</i> , 2002 , 22, 71-84	0.8	10
45	Perfect Narrowband Absorber Based on Patterned Graphene-Silica Multilayer Hyperbolic Metamaterials. <i>Plasmonics</i> , 2020 , 15, 1869-1874	2.4	8
44	Electromagnetic Waves in Artificial Chiral Structures with Dielectric and Magnetic Properties. <i>Electromagnetics</i> , 2001 , 21, 401-414	0.8	8

43	Investigation of electromagnetic properties of a high absorptive, weakly reflective metamaterial-substrate system with compensated chirality. <i>Journal of Applied Physics</i> , 2017 , 121, 015108 ²⁻⁵		7
42	Inversion Method Characterization of Graphene-Based Coordination Absorbers Incorporating Periodically Patterned Metal Ring Metasurfaces. <i>Nanomaterials</i> , 2020 , 10,	5.4	7
41	Optimal arrangement of smooth helices in uniaxial 2D-arrays 2013 ,		7
40	Radiation of circularly polarized microwaves by a plane periodic structure of \square elements. <i>Journal of Communications Technology and Electronics</i> , 2007 , 52, 1002-1005	0.5	6
39	Reply to comment on "Reflection and transmission by a uniaxial bi-anisotropic slab under normal incidence of plane waves. <i>Journal Physics D: Applied Physics</i> , 1999 , 32, 2705-2706	3	6
38	Microwave analogy of optical properties of cholesteric liquid crystals with local chirality under normal incidence of waves. <i>Journal Physics D: Applied Physics</i> , 1999 , 32, 3222-3226	3	6
37	Independent tunable multi-band absorbers based on molybdenum disulfide metasurfaces. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24132-24138	3.6	5
36	Investigation of the properties of weakly reflective metamaterials with compensated chirality. <i>Crystallography Reports</i> , 2014 , 59, 480-485	0.6	4
35	View on the history of electromagnetics of metamaterials: Evolution of the congress series of complex media. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2014 , 12, 279-283	2.6	4
34	The potential energy of non-resonant optimal bianisotropic particles in an electromagnetic field does not depend on time. <i>EPJ Applied Metamaterials</i> , 2014 , 1, 4	0.8	4
33	Polarization selectivity of interaction of DNA molecules with X-ray radiation. <i>Biophysics (Russian Federation)</i> , 2010 , 55, 194-198	0.7	4
32	Polarization Selectivity of Artificial Anisotropic Structures Based on DNA-Like Helices. <i>Crystallography Reports</i> , 2010 , 55, 921-926	0.6	4
31	Polarization selectivity of electromagnetic radiation of deoxyribonucleic acid. <i>Journal of Communications Technology and Electronics</i> , 2007 , 52, 996-1001	0.5	3
30	Ferroelectric Properties of Nanostructured SBTN Sol-Gel Layers. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 103-108	0.4	3
29	Nanostructure and Ferroelectric Properties of Sol-Gel SBTN-Films for Electronic Devices. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 144-150	0.4	3
28	High-performance terahertz refractive index sensor based on a hybrid graphene Tamm structure. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2021 , 38, 2543	1.7	3
27	Helical Metamaterial Elements as RLC Circuit. <i>Advanced Materials Research</i> , 2015 , 1117, 122-125	0.5	2
26	Optical Forces Acting on a Double DNA-Like Helix, Its Unwinding and Strands Rupture. <i>Photonics</i> , 2020 , 7, 83	2.2	2

25	A single-layer meta-atom absorber 2014 ,		2
24	The Effective Optimal Parameters of Metamaterial on the Base of Omega-Elements. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 3-9	0.4	2
23	Effective Electron Model of the Wire Helix Excitation at Microwaves: First Step to Optimization of Pitch Angle of Helix 2002 , 245-256		2
22	Omega-Structured Substrate-Supported Metamaterial for the Transformation of Wave Polarization in THz Frequency Range. <i>Advances in Intelligent Systems and Computing</i> , 2018 , 72-80	0.4	1
21	Design and Creation of Metal-Polymer Absorbing Metamaterials Using the Vacuum-Plasma Technologies. <i>Lecture Notes in Networks and Systems</i> , 2019 , 105-112	0.5	1
20	Artificial anisotropic chiral materials for decrease of reflection of electromagnetic waves from metallic surfaces 2001 ,		1
19	Structural Properties of BiFeO ₃ and Bi _{0,9} La _{0,1} FeO ₃ Powders Synthesized by Sol-Gel Process. <i>Lecture Notes in Networks and Systems</i> , 2020 , 113-118	0.5	1
18	Nanoscale Piezoelectric Properties and Phase Separation in Pure and La-Doped BiFeO Films Prepared by Sol-Gel Method. <i>Materials</i> , 2021 , 14,	3.5	1
17	High-Performance Tunable Multichannel Absorbers Coupled with Graphene-Based Grating and Dual-Tamm Plasmonic Structures. <i>Plasmonics</i> ,1	2.4	1
16	Multi-focusing metalenses based on quadrangular frustum pyramid-shaped nanoantennas. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2021 , 46, 100957	2.6	1
15	Propagation of Electromagnetic Waves in Artificial Anisotropic Uniform and Twisted Omega-Structures 2002 , 197-210		0
14	Formation and Research of Properties of Photocatalytic Materials on the Basis of TiO ₂ for Water Treatment. <i>Lecture Notes in Networks and Systems</i> , 2020 , 46-51	0.5	0
13	Polarization Properties of a Rectangular Balanced Omega Element in the THz Range. <i>Lecture Notes in Networks and Systems</i> , 2020 , 84-93	0.5	0
12	Features of Electro-Induced Periodical Structures in LiTaO ₃ Single Crystal and Their Interaction with Surface Acoustic Wave. <i>Advances in Materials Science and Engineering</i> , 2019 , 2019, 1-12	1.5	
11	Total Absorption Based on Smooth Double-Turn Helices. <i>Advanced Materials Research</i> , 2015 , 1117, 39-43	0.5	
10	The development of double-sided nonreflecting absorber of the terahertz waves on the basis of metamaterials. <i>Journal of Physics: Conference Series</i> , 2020 , 1461, 012148	0.3	
9	Synthesis of BiFeO ₃ -Powders by Sol-Gel Process. <i>Lecture Notes in Networks and Systems</i> , 2019 , 43-48	0.5	
8	The Influence of Induced Chiral Properties on the Transformation of Acoustic Waves Polarization in Piezoelectric Semiconductors 1997 , 219-226		

- 7 The Competition of Bragg Reflection and Fresnel's Reflection of Electromagnetic Waves in the Artificial Helicoidal Bianisotropic Media with Local Chirality **2002**, 307-318
- 6 Radiation Patterns of Double DNA-Like Helices as Elements of Metamaterials and Antenna Systems. *Lecture Notes in Networks and Systems*, **2020**, 135-143 0.5
- 5 INFLUENCE OF THE COMPOSITION AND CONDITIONS OF THE SOL-GEL PROCESS ON THE PROPERTIES OF BARIUM-STRONTIUM TITANATE FERROELECTRIC THIN FILMS. *Problemy Fiziki, Matematiki I Tehniki*, **2021**, 45-50
- 4 Nanosilica Suspensions for Monocrystalline Silicon Wafers CMP Surface for Micro- and Nanoelectronics. *Advances in Intelligent Systems and Computing*, **2017**, 129-135 0.4
- 3 Production and Experimental Study of a Weakly Reflecting Absorbing Metamaterial Based on Planar Spirals in the Microwave Range. *Lecture Notes in Networks and Systems*, **2022**, 261-269 0.5
- 2 Raman Investigation of Multiferroic $\text{Bi}_{1-x}\text{Sm}_x\text{FeO}_3$ Materials Synthesized by the Sol-gel Method. *Lecture Notes in Networks and Systems*, **2022**, 319-324 0.5
- 1 A metamaterial based on planar spirals as a electromagnetic waves polarization converter. *Proceedings of the National Academy of Sciences of Belarus Physics and Mathematics Series*, **2022**, 58, 110-119