

Sergei A Khakhomov

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/989949/sergei-a-khakhomov-publications-by-year.pdf>
Version: 2024-04-19

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.

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	Production and Experimental Study of a Weakly Reflecting Absorbing Metamaterial Based on Planar Spirals in the Microwave Range. <i>Lecture Notes in Networks and Systems</i> , 2022 , 261-269	0.5	
59	Raman Investigation of Multiferroic Bi _{1-x} Sm _x FeO ₃ Materials Synthesized by the Sol-Gel Method. <i>Lecture Notes in Networks and Systems</i> , 2022 , 319-324	0.5	
58	A metamaterial based on planar spirals as a electromagnetic waves polarization converter. <i>Proceedings of the National Academy of Sciences of Belarus Physics and Mathematics Series</i> , 2022 , 58, 110-119	0.2	9
57	INFLUENCE OF THE COMPOSITION AND CONDITIONS OF THE SOL-GEL PROCESS ON THE PROPERTIES OF BARIUM-STRONTIUM TITANATE FERROELECTRIC THIN FILMS. <i>Problemy Fiziki, Matematiki i Tehniki</i> , 2021 , 45-50		
56	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
55	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
54	Multi-focusing metalenses based on quadrangular frustum pyramid-shaped nanoantennas. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2021 , 46, 100957	2.6	1
53	Optical Forces Acting on a Double DNA-Like Helix, Its Unwinding and Strands Rupture. <i>Photonics</i> , 2020 , 7, 83	2.2	2
52	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	
51	Perfect Narrowband Absorber Based on Patterned Graphene-Silica Multilayer Hyperbolic Metamaterials. <i>Plasmonics</i> , 2020 , 15, 1869-1874	2.4	8
50	Inversion Method Characterization of Graphene-Based Coordination Absorbers Incorporating Periodically Patterned Metal Ring Metasurfaces. <i>Nanomaterials</i> , 2020 , 10,	5.4	7
49	Radiation Patterns of Double DNA-Like Helices as Elements of Metamaterials and Antenna Systems. <i>Lecture Notes in Networks and Systems</i> , 2020 , 135-143	0.5	
48	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
47	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
46	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
45	Sensors With Multifold Nanorod Metasurfaces Array Based on Hyperbolic Metamaterials. <i>IEEE Sensors Journal</i> , 2020 , 20, 1801-1806	4	15
44	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	

43	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
42	Synthesis of BiFeO ₃ -Powders by Sol-Gel Process. <i>Lecture Notes in Networks and Systems</i> , 2019 , 43-48	0.5	
41	Coordinated multi-band angle insensitive selection absorber based on graphene metamaterials. <i>Optics Express</i> , 2019 , 27, 31435-31445	3.3	32
40	Independent tunable multi-band absorbers based on molybdenum disulfide metasurfaces. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 24132-24138	3.6	5
39	Stored and absorbed energy of fields in lossy chiral single-component metamaterials. <i>Physical Review B</i> , 2018 , 97,	3.3	10
38	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
37	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
36	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
35	Highly transparent twist polarizer metasurface. <i>Applied Physics Letters</i> , 2017 , 111, 111108	3.4	13
34	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
33	Ferroelectric Properties of Nanostructured SBTN Sol-Gel Layers. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 103-108	0.4	3
32	Nanosilica Suspensions for Monocrystalline Silicon Wafers CMP Surface for Micro- and Nanoelectronics. <i>Advances in Intelligent Systems and Computing</i> , 2017 , 129-135	0.4	
31	Ground-plane-less bidirectional terahertz absorber based on omega resonators. <i>Optics Letters</i> , 2015 , 40, 2084-7	3	40
30	Total Absorption Based on Smooth Double-Turn Helices. <i>Advanced Materials Research</i> , 2015 , 1117, 39-43	0.5	
29	Helical Metamaterial Elements as RLC Circuit. <i>Advanced Materials Research</i> , 2015 , 1117, 122-125	0.5	2
28	Broadband Reflectionless Metasheets: Frequency-Selective Transmission and Perfect Absorption. <i>Physical Review X</i> , 2015 , 5,	9.1	90
27	Investigation of the properties of weakly reflective metamaterials with compensated chirality. <i>Crystallography Reports</i> , 2014 , 59, 480-485	0.6	4
26	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

25	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
24	A single-layer meta-atom absorber 2014 ,		2
23	Optimal arrangement of smooth helices in uniaxial 2D-arrays 2013 ,		7
22	Study of the properties of artificial anisotropic structures with high chirality. <i>Crystallography Reports</i> , 2011 , 56, 366-373	0.6	13
21	Polarization selectivity of interaction of DNA molecules with X-ray radiation. <i>Biophysics (Russian Federation)</i> , 2010 , 55, 194-198	0.7	4
20	Helices of optimal shape for nonreflecting covering. <i>EPJ Applied Physics</i> , 2010 , 49, 33002	1.1	12
19	Polarization Selectivity of Artificial Anisotropic Structures Based on DNA-Like Helices. <i>Crystallography Reports</i> , 2010 , 55, 921-926	0.6	4
18	Optimal helix shape: Equality of dielectric, magnetic, and chiral susceptibilities. <i>Russian Physics Journal</i> , 2009 , 52, 472-479	0.7	17
17	Chiral metamaterial with unit negative refraction index. <i>EPJ Applied Physics</i> , 2009 , 46, 32607	1.1	15
16	Modeling of Spirals with Equal Dielectric, Magnetic, and Chiral Susceptibilities. <i>Electromagnetics</i> , 2008 , 28, 476-493	0.8	32
15	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
14	Polarization selectivity of electromagnetic radiation of deoxyribonucleic acid. <i>Journal of Communications Technology and Electronics</i> , 2007 , 52, 996-1001	0.5	3
13	Radiation of circularly polarized microwaves by a plane periodic structure of elements. <i>Journal of Communications Technology and Electronics</i> , 2007 , 52, 1002-1005	0.5	6
12	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
11	The Competition of Bragg Reflection and Fresnel Reflection of Electromagnetic Waves in the Artificial Helicoidal Bianisotropic Media with Local Chirality 2002 , 307-318		
10	Artificial Uniaxial Bianisotropic Media at Oblique Incidence of Electromagnetic Waves. <i>Electromagnetics</i> , 2002 , 22, 71-84	0.8	10
9	Propagation of Electromagnetic Waves in Artificial Anisotropic Uniform and Twisted Omega-Structures 2002 , 197-210		0
8	Effective Electron Model of the Wire Helix Excitation at Microwaves: First Step to Optimization of Pitch Angle of Helix 2002 , 245-256		2

7	Artificial anisotropic chiral materials for decrease of reflection of electromagnetic waves from metallic surfaces 2001 ,		1
6	Electromagnetic Waves in Artificial Chiral Structures with Dielectric and Magnetic Properties. <i>Electromagnetics</i> , 2001 , 21, 401-414	0.8	8
5	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
4	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
3	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
2	The Influence of Induced Chiral Properties on the Transformation of Acoustic Waves Polarization in Piezoelectric Semiconductors 1997 , 219-226		
1	High-Performance Tunable Multichannel Absorbers Coupled with Graphene-Based Grating and Dual-Tamm Plasmonic Structures. <i>Plasmonics</i> ,1	2.4	1