

# Sergei A Khakhomov

## List of Publications by Year in descending order

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66  
papers

674  
citations

686830

13  
h-index

610482

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76  
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76  
docs citations

76  
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	High-Performance Tunable Multichannel Absorbers Coupled with Graphene-Based Grating and Dual-Tamm Plasmonic Structures. <i>Plasmonics</i> , 2022, 17, 287-294.	1.8	5
2	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.	0.1	0
3	MODELING, CREATING AND EXPERIMENTAL STUDY OF METASURFACES COVERING OBJECTS OF COMPLEX SHAPE. <i>Problemy Fiziki, Matematiki I Tehniki</i> , 2022, , 7-13.	0.0	0
4	Optimal angular stability of reflectionless metasurface absorbers. <i>Physical Review B</i> , 2021, 103, .	1.1	5
5	Nanoscale Piezoelectric Properties and Phase Separation in Pure and La-Doped BiFeO <sub>3</sub> Films Prepared by Sol-Gel Method. <i>Materials</i> , 2021, 14, 1694.	1.3	11
6	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.	0.9	11
7	Multi-focusing metalenses based on quadrangular frustum pyramid-shaped nanoantennas. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2021, 46, 100957.	1.0	1
8	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.	0.0	0
9	Sensors With Multifold Nanorod Metasurfaces Array Based on Hyperbolic Metamaterials. <i>IEEE Sensors Journal</i> , 2020, 20, 1801-1806.	2.4	21
10	Optical Forces Acting on a Double DNA-Like Helix, Its Unwinding and Strands Rupture. <i>Photonics</i> , 2020, 7, 83.	0.9	4
11	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	1
12	Perfect Narrowband Absorber Based on Patterned Graphene-Silica Multilayer Hyperbolic Metamaterials. <i>Plasmonics</i> , 2020, 15, 1869-1874.	1.8	20
13	Inversion Method Characterization of Graphene-Based Coordination Absorbers Incorporating Periodically Patterned Metal Ring Metasurfaces. <i>Nanomaterials</i> , 2020, 10, 1102.	1.9	10
14	Metamaterials and metasurfaces. <i>Science and Innovations</i> , 2020, 8, 23-27.	0.1	1
15	Multifunctional Single-Layer Metasurface for Electromagnetic Wave Manipulations. , 2020, , .		0
16	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	2
17	Structural Properties of BiFeO <sub>3</sub> and Bi <sub>0.9</sub> La <sub>0.1</sub> FeO <sub>3</sub> Powders Synthesized by Sol-Gel Process. <i>Lecture Notes in Networks and Systems</i> , 2020, , 113-118.	0.5	1
18	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	0

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19	Design and Creation of Metal-Polymer Absorbing Metamaterials Using the Vacuum-Plasma Technologies. Lecture Notes in Networks and Systems, 2019, , 105-112.	0.5	1
20	Features of Electro-Induced Periodical Structures in LiTaO <sub>3</sub> Single Crystal and Their Interaction with Surface Acoustic Wave. Advances in Materials Science and Engineering, 2019, 2019, 1-12.	1.0	0
21	Independent tunable multi-band absorbers based on molybdenum disulfide metasurfaces. Physical Chemistry Chemical Physics, 2019, 21, 24132-24138.	1.3	12
22	Coordinated multi-band angle insensitive selection absorber based on graphene metamaterials. Optics Express, 2019, 27, 31435.	1.7	54
23	Stored and absorbed energy of fields in lossy chiral single-component metamaterials. Physical Review B, 2018, 97, .	1.1	18
24	Omega-Structured Substrate-Supported Metamaterial for the Transformation of Wave Polarization in THz Frequency Range. Advances in Intelligent Systems and Computing, 2018, , 72-80.	0.5	3
25	Interaction Forces of Electric Currents and Charges in a Double DNA-like Helix and its Equilibrium. , 2018, , .		1
26	Nanostructure and Ferroelectric Properties of Sol-Gel SBTN-Films for Electronic Devices. Advances in Intelligent Systems and Computing, 2018, , 144-150.	0.5	3
27	Investigation of electromagnetic properties of a high absorptive, weakly reflective metamaterialâ€”substrate system with compensated chirality. Journal of Applied Physics, 2017, 121, .	1.1	14
28	Highly transparent twist polarizer metasurface. Applied Physics Letters, 2017, 111, .	1.5	20
29	Absorptive weakly reflective metamaterial based on optimal rectangular omegas. , 2017, , .		2
30	Notice of Removal: Investigation of interaction of surface acoustic wave with controlled electroinduced domain structures in the crystal. , 2017, , .		0
31	Ferroelectric Properties of Nanostructured SBTN Sol-Gel Layers. Advances in Intelligent Systems and Computing, 2017, , 103-108.	0.5	3
32	Broadband Reflectionless Metasheets: Frequency-Selective Transmission and Perfect Absorption. Physical Review X, 2015, 5, .	2.8	126
33	Ground-plane-less bidirectional terahertz absorber based on omega resonators. Optics Letters, 2015, 40, 2084.	1.7	63
34	Total Absorption Based on Smooth Double-Turn Helices. Advanced Materials Research, 2015, 1117, 39-43.	0.3	0
35	Helical Metamaterial Elements as RLC Circuit. Advanced Materials Research, 2015, 1117, 122-125.	0.3	3
36	The potential energy of non-resonant optimal bianisotropic particles in an electromagnetic field does not depend on time. EPJ Applied Metamaterials, 2014, 1, 4.	0.8	5

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37	A single-layer meta-atom absorber. , 2014, , .		3
38	Investigation of the properties of weakly reflective metamaterials with compensated chirality. Crystallography Reports, 2014, 59, 480-485.	0.1	8
39	View on the history of electromagnetics of metamaterials: Evolution of the congress series of complex media. Photonics and Nanostructures - Fundamentals and Applications, 2014, 12, 279-283.	1.0	6
40	Optimal arrangement of smooth helices in uniaxial 2D-arrays. , 2013, , .		7
41	Study of the properties of artificial anisotropic structures with high chirality. Crystallography Reports, 2011, 56, 366-373.	0.1	16
42	INTERACTION OF ARTIFICIAL DNA-LIKE STRUCTURES IN THE MICROWAVE RANGE: POLARIZATION SELECTIVITY OF WAVE REFLECTION. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz) Tj ETQq0 0.0 rgBT /@overlock 10 Tf 50 4	0.2	6
43	Polarization Selectivity of Artificial Anisotropic Structures Based on DNA-Like Helices. Crystallography Reports, 2010, 55, 921-926.	0.1	6
44	Polarization selectivity of interaction of DNA molecules with X-ray radiation. Biophysics (Russian) Tj ETQq0 0 0 rgBT /@overlock 10 Tf 50 4	0.2	6
45	Helices of optimal shape for nonreflecting covering. EPJ Applied Physics, 2010, 49, 33002.	0.3	12
46	Optimal helix shape: Equality of dielectric, magnetic, and chiral susceptibilities. Russian Physics Journal, 2009, 52, 472-479.	0.2	20
47	Chiral metamaterial with unit negative refraction index. EPJ Applied Physics, 2009, 46, 32607.	0.3	15
48	Modeling of Spirals with Equal Dielectric, Magnetic, and Chiral Susceptibilities. Electromagnetics, 2008, 28, 476-493.	0.3	33
49	Transformation of the polarization of electromagnetic waves by helical radiators. Journal of Communications Technology and Electronics, 2007, 52, 850-855.	0.2	23
50	Polarization selectivity of electromagnetic radiation of deoxyribonucleic acid. Journal of Communications Technology and Electronics, 2007, 52, 996-1001.	0.2	6
51	Radiation of circularly polarized microwaves by a plane periodic structure of $\hat{\epsilon}$ elements. Journal of Communications Technology and Electronics, 2007, 52, 1002-1005.	0.2	9
52	Polarization Plane Rotation of Electromagnetic Waves by the Artificial Periodic Structure with One-Turn Helical Elements. Electromagnetics, 2006, 26, 219-233.	0.3	11
53	The Competition of Bragg Reflection and Fresnel's Reflection of Electromagnetic Waves in the Artificial Helicoidal Bianisotropic Media with Local Chirality. , 2002, , 307-318.		0
54	Artificial Uniaxial Bianisotropic Media at Oblique Incidence of Electromagnetic Waves. Electromagnetics, 2002, 22, 71-84.	0.3	10

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55	Effective Electron Model of the Wire Helix Excitation at Microwaves: First Step to Optimization of Pitch Angle of Helix. , 2002, , 245-256.		2
56	Propagation of Electromagnetic Waves in Artificial Anisotropic Uniform and Twisted Omega-Structures. , 2002, , 197-210.		1
57	<title>Artificial anisotropic chiral materials for decrease of reflection of electromagnetic waves from metallic surfaces</title>. , 2001, , .		1
58	Electromagnetic Waves in Artificial Chiral Structures with Dielectric and Magnetic Properties. Electromagnetics, 2001, 21, 401-414.	0.3	11
59	Reply to comment on `Reflection and transmission by a uniaxial bi-anisotropic slab under normal incidence of plane waves. Journal Physics D: Applied Physics, 1999, 32, 2705-2706.	1.3	8
60	Microwave analogy of optical properties of cholesteric liquid crystals with local chirality under normal incidence of waves. Journal Physics D: Applied Physics, 1999, 32, 3222-3226.	1.3	6
61	Reflection and transmission by a uniaxially bi-anisotropic slab under normal incidence of plane waves. Journal Physics D: Applied Physics, 1998, 31, 2458-2464.	1.3	22
62	The Influence of Induced Chiral Properties on the Transformation of Acoustic Waves Polarization in Piezoelectric Semiconductors. , 1997, , 219-226.		0
63	Artificial anisotropic chiral structures with dielectric and magnetic properties at oblique incidence of electromagnetic waves. , 0, , .		0
64	The equilibrium state of bifilar helix as element of metamaterials. , 0, , .		2
65	DNA-like Helices as Nanosized Polarizers of Electromagnetic Waves. Frontiers in Nanotechnology, 0, 4, .	2.4	1
66	Switchable Fano Resonance Filter with Graphene-based Double Freestanding Dielectric Gratings. Plasmonics, 0, , .	1.8	0