Sergei A Khakhomov

List of Publications by Year
in descending order

66	674	686830	610482
papers	citations	13 h-index	24 g-index

76	76	76	576
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Broadband Reflectionless Metasheets: Frequency-Selective Transmission and Perfect Absorption. Physical Review X, 2015, 5, .	2.8	126
2	Ground-plane-less bidirectional terahertz absorber based on omega resonators. Optics Letters, 2015, 40, 2084.	1.7	63
3	Coordinated multi-band angle insensitive selection absorber based on graphene metamaterials. Optics Express, 2019, 27, 31435.	1.7	54
4	Modeling of Spirals with Equal Dielectric, Magnetic, and Chiral Susceptibilities. Electromagnetics, 2008, 28, 476-493.	0.3	33
5	Transformation of the polarization of electromagnetic waves by helical radiators. Journal of Communications Technology and Electronics, 2007, 52, 850-855.	0.2	23
6	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
7	Sensors With Multifold Nanorod Metasurfaces Array Based on Hyperbolic Metamaterials. IEEE Sensors Journal, 2020, 20, 1801-1806.	2.4	21
8	Optimal helix shape: Equality of dielectric, magnetic, and chiral susceptibilities. Russian Physics Journal, 2009, 52, 472-479.	0.2	20
9	Highly transparent twist polarizer metasurface. Applied Physics Letters, 2017, 111, .	1.5	20
10	Perfect Narrowband Absorber Based on Patterned Graphene-Silica Multilayer Hyperbolic Metamaterials. Plasmonics, 2020, 15, 1869-1874.	1.8	20
11	Stored and absorbed energy of fields in lossy chiral single-component metamaterials. Physical Review B, 2018, 97, .	1.1	18
12	Study of the properties of artificial anisotropic structures with high chirality. Crystallography Reports, 2011, 56, 366-373.	0.1	16
13	Chiral metamaterial with unit negative refraction index. EPJ Applied Physics, 2009, 46, 32607.	0.3	15
14	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
15	Helices of optimal shape for nonreflecting covering. EPJ Applied Physics, 2010, 49, 33002.	0.3	12
16	Independent tunable multi-band absorbers based on molybdenum disulfide metasurfaces. Physical Chemistry Chemical Physics, 2019, 21, 24132-24138.	1.3	12
17	Electromagnetic Waves in Artificial Chiral Structures with Dielectric and Magnetic Properties. Electromagnetics, 2001, 21, 401-414.	0.3	11
18	Polarization Plane Rotation of Electromagnetic Waves by the Artificial Periodic Structure with One-Turn Helical Elements. Electromagnetics, 2006, 26, 219-233.	0.3	11

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19	Nanoscale Piezoelectric Properties and Phase Separation in Pure and La-Doped BiFeO3 Films Prepared by Solâ€“Gel Method. Materials, 2021, 14, 1694.	1.3	11
20	High-performance terahertz refractive index sensor based on a hybrid graphene Tamm structure. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2543.	0.9	11
21	Artificial Uniaxial Bianisotropic Media at Oblique Incidence of Electromagnetic Waves. Electromagnetics, 2002, 22, 71-84.	0.3	10
22	Inversion Method Characterization of Graphene-Based Coordination Absorbers Incorporating Periodically Patterned Metal Ring Metasurfaces. Nanomaterials, 2020, 10, 1102.	1.9	10
23	Radiation of circularly polarized microwaves by a plane periodic structure of Î© elements. Journal of Communications Technology and Electronics, 2007, 52, 1002-1005.	0.2	9
24	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
25	Investigation of the properties of weakly reflective metamaterials with compensated chirality. Crystallography Reports, 2014, 59, 480-485.	0.1	8
26	Optimal arrangement of smooth helices in uniaxial 2D-arrays. , 2013, , .		7
27	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
28	Polarization selectivity of electromagnetic radiation of deoxyribonucleic acid. Journal of Communications Technology and Electronics, 2007, 52, 996-1001.	0.2	6
29	Polarization Selectivity of Artificial Anisotropic Structures Based on DNA-Like Helices. Crystallography Reports, 2010, 55, 921-926.	0.1	6
30	Polarization selectivity of interaction of DNA molecules with X-ray radiation. Biophysics (Russian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 3	0.2	6
31	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
32	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
33	Optimal angular stability of reflectionless metasurface absorbers. Physical Review B, 2021, 103, .	1.1	5
34	High-Performance Tunable Multichannel Absorbers Coupled with Graphene-Based Grating and Dual-Tamm Plasmonic Structures. Plasmonics, 2022, 17, 287-294.	1.8	5
35	Optical Forces Acting on a Double DNA-Like Helix, Its Unwinding and Strands Rupture. Photonics, 2020, 7, 83.	0.9	4
36	A single-layer meta-atom absorber. , 2014, , .		3

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37	Helical Metamaterial Elements as RLC Circuit. Advanced Materials Research, 2015, 1117, 122-125.	0.3	3
38	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
39	Ferroelectric Properties of Nanostructured SBTN Sol-Gel Layers. Advances in Intelligent Systems and Computing, 2017, , 103-108.	0.5	3
40	Nanostructure and Ferroelectric Properties of Sol-Gel SBTN-Films for Electronic Devices. Advances in Intelligent Systems and Computing, 2018, , 144-150.	0.5	3
41	Absorptive weakly reflective metamaterial based on optimal rectangular omegas. , 2017, , .		2
42	Effective Electron Model of the Wire Helix Excitation at Microwaves: First Step to Optimization of Pitch Angle of Helix. , 2002, , 245-256.		2
43	INTERACTION OF ARTIFICIAL DNA-LIKE STRUCTURES IN THE MICROWAVE RANGE: POLARIZATION SELECTIVITY OF WAVE REFLECTION. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz) Tj ETQq1 1 0.784314 rgBT /Ov	0.4	2
44	The equilibrium state of bifilar helix as element of metamaterials. , 0, , .		2
45	Polarization Properties of a Rectangular Balanced Omega Element in the THz Range. Lecture Notes in Networks and Systems, 2020, , 84-93.	0.5	2
46	<title>Artificial anisotropic chiral materials for decrease of reflection of electromagnetic waves from metallic surfaces</title>. , 2001, , .		1
47	Interaction Forces of Electric Currents and Charges in a Double DNA-like Helix and its Equilibrium. , 2018, , .		1
48	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
49	The development of double-sided nonreflecting absorber of the terahertz waves on the basis of metamaterials. Journal of Physics: Conference Series, 2020, 1461, 012148.	0.3	1
50	Multi-focusing metalenses based on quadrangular frustum pyramid-shaped nanoantennas. Photonics and Nanostructures - Fundamentals and Applications, 2021, 46, 100957.	1.0	1
51	Propagation of Electromagnetic Waves in Artificial Anisotropic Uniform and Twisted Omega-Structures. , 2002, , 197-210.		1
52	Metamaterials and metasurfaces. Science and Innovations, 2020, 8, 23-27.	0.1	1
53	Structural Properties of BiFeO3 and Bi0,9La0,1FeO3 Powders Synthesized by Sol-Gel Process. Lecture Notes in Networks and Systems, 2020, , 113-118.	0.5	1
54	DNA-like Helices as Nanosized Polarizers of Electromagnetic Waves. Frontiers in Nanotechnology, 0, 4, .	2.4	1

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55	The Influence of Induced Chiral Properties on the Transformation of Acoustic Waves Polarization in Piezoelectric Semiconductors. , 1997, , 219-226.		0
56	Artificial anisotropic chiral structures with dielectric and magnetic properties at oblique incidence of electromagnetic waves. , 0, , .		0
57	The Competition of Bragg Reflection and Fresnelâ€™S Reflection of Electromagnetic Waves in the Artificial Helicoidal Bianisotropic Media with Local Chirality. , 2002, , 307-318.		0
58	Total Absorption Based on Smooth Double-Turn Helices. Advanced Materials Research, 2015, 1117, 39-43.	0.3	0
59	Notice of Removal: Investigation of interaction of surface acoustic wave with controlled electroinduced domain structures in the crystal. , 2017, , .		0
60	Features of Electro-Induced Periodical Structures in LiTaO₃ Single Crystal and Their Interaction with Surface Acoustic Wave. Advances in Materials Science and Engineering, 2019, 2019, 1-12.	1.0	0
61	Multifunctional Single-Layer Metasurface for Electromagnetic Wave Manipulations. , 2020, , .		0
62	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	0
63	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.	0.0	0
64	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.	0.1	0
65	MODELING, CREATING AND EXPERIMENTAL STUDY OF METASURFACES COVERING OBJECTS OF COMPLEX SHAPE. Problemy Fiziki, Matematiki I Tehniki, 2022, , 7-13.	0.0	0
66	SwitchableÂFanoÂResonanceÂFilterÂwithÂGraphene-basedÂDoubleÂFreestandingÂDielectricÂGratings. Plasmonics, 0, , .	1.8	0