

Alexey P Slobozhanyuk

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

3,361
citations

159525

30
h-index

143943

57
g-index

103
all docs

103
docs citations

103
times ranked

2842
citing authors

#	ARTICLE	IF	CITATIONS
1	Higher-order topological states in photonic kagome crystals with long-range interactions. <i>Nature Photonics</i> , 2020, 14, 89-94.	15.6	266
2	Three-dimensional all-dielectric photonic topological insulator. <i>Nature Photonics</i> , 2017, 11, 130-136.	15.6	257
3	Nonlinear light generation in topological nanostructures. <i>Nature Nanotechnology</i> , 2019, 14, 126-130.	15.6	187
4	An antenna model for the Purcell effect. <i>Scientific Reports</i> , 2015, 5, 12956.	1.6	160
5	Enhancement of Magnetic Resonance Imaging with Metasurfaces. <i>Advanced Materials</i> , 2016, 28, 1832-1838.	11.1	160
6	Subwavelength Topological Edge States in Optically Resonant Dielectric Structures. <i>Physical Review Letters</i> , 2015, 114, 123901.	2.9	144
7	Topological Majorana States in Zigzag Chains of Plasmonic Nanoparticles. <i>ACS Photonics</i> , 2014, 1, 101-105.	3.2	138
8	Far-field probing of leaky topological states in all-dielectric metasurfaces. <i>Nature Communications</i> , 2018, 9, 909.	5.8	127
9	Experimental verification of the concept of all-dielectric nanoantennas. <i>Applied Physics Letters</i> , 2012, 100, .	1.5	119
10	Nonlinear Control of Electromagnetic Topological Edge States. <i>Physical Review Letters</i> , 2018, 121, 163901.	2.9	107
11	Broadband and Thin Linear-to-Circular Polarizers Based on Self-Complementary Zigzag Metasurfaces. <i>IEEE Transactions on Antennas and Propagation</i> , 2017, 65, 4124-4133.	3.1	98
12	Spin- and valley-polarized one-way Klein tunneling in photonic topological insulators. <i>Science Advances</i> , 2018, 4, eaap8802.	4.7	93
13	Self-complementary metasurfaces for linear-to-circular polarization conversion. <i>Physical Review B</i> , 2015, 92, .	1.1	84
14	Flexible and compact hybrid metasurfaces for enhanced ultra high field in vivo magnetic resonance imaging. <i>Scientific Reports</i> , 2017, 7, 1678.	1.6	81
15	Subwavelength waveguides composed of dielectric nanoparticles. <i>Physical Review B</i> , 2014, 89, .	1.1	79
16	Mapping plasmonic topological states at the nanoscale. <i>Nanoscale</i> , 2015, 7, 11904-11908.	2.8	78
17	Edge States and Topological Phase Transitions in Chains of Dielectric Nanoparticles. <i>Small</i> , 2017, 13, 1603190.	5.2	77
18	Experimental demonstration of topological effects in bianisotropic metamaterials. <i>Scientific Reports</i> , 2016, 6, 22270.	1.6	73

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19	Near-field mapping of Fano resonances in all-dielectric oligomers. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	64
20	Purcell effect in hyperbolic metamaterial resonators. <i>Physical Review B</i> , 2015, 92, .	1.1	62
21	Flexible Helices for Nonlinear Metamaterials. <i>Advanced Materials</i> , 2013, 25, 3409-3412.	11.1	61
22	Fano resonances in antennas: General control over radiation patterns. <i>Physical Review B</i> , 2013, 88, .	1.1	54
23	Circular dichroism enhancement in plasmonic nanorod metamaterials. <i>Optics Express</i> , 2018, 26, 17841.	1.7	52
24	Enhanced photonic spin Hall effect with subwavelength topological edge states. <i>Laser and Photonics Reviews</i> , 2016, 10, 656-664.	4.4	44
25	Hyperbolic transmission-line metamaterials. <i>Journal of Applied Physics</i> , 2012, 112, .	1.1	42
26	Near-field imaging of spin-locked edge states in all-dielectric topological metasurfaces. <i>Applied Physics Letters</i> , 2019, 114, .	1.5	41
27	Locally Enhanced Image Quality with Tunable Hybrid Metasurfaces. <i>Physical Review Applied</i> , 2018, 9, .	1.5	40
28	Magnetic Purcell factor in wire metamaterials. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	33
29	Experimental investigation of a metasurface resonator for in vivo imaging at 1.5 T. <i>Journal of Magnetic Resonance</i> , 2018, 286, 78-81.	1.2	32
30	High permittivity ceramics improve the transmit field and receive efficiency of a commercial extremity coil at 1.5 Tesla. <i>Journal of Magnetic Resonance</i> , 2019, 299, 59-65.	1.2	31
31	Ceramic resonators for targeted clinical magnetic resonance imaging of the breast. <i>Nature Communications</i> , 2020, 11, 3840.	5.8	29
32	Double-shell metamaterial coatings for plasmonic cloaking. <i>Physica Status Solidi - Rapid Research Letters</i> , 2012, 6, 46-48.	1.2	28
33	Long-Range Miniaturized Ceramic RFID Tags. <i>IEEE Transactions on Antennas and Propagation</i> , 2021, 69, 3125-3131.	3.1	25
34	An artificial dielectric slab for ultra high-field MRI: Proof of concept. <i>Journal of Magnetic Resonance</i> , 2020, 320, 106835.	1.2	23
35	Impact of wire metasurface eigenmode on the sensitivity enhancement of MRI system. <i>Applied Physics Letters</i> , 2018, 112, .	1.5	22
36	Metamaterials with tunable nonlinearity. <i>JETP Letters</i> , 2012, 95, 613-617.	0.4	21

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37	Adjustable Subwavelength Metasurface-Inspired Resonator for Magnetic Resonance Imaging. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2018, 215, 1700788.	0.8	21
38	Novel materials in magnetic resonance imaging: high permittivity ceramics, metamaterials, metasurfaces and artificial dielectrics. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2022, 35, 875-894.	1.1	21
39	Broadband isotropic $\hat{1}/4$ -near-zero metamaterials. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	20
40	Photonic Jackiw-Rebbi states in all-dielectric structures controlled by bianisotropy. <i>Physical Review B</i> , 2019, 99, .	1.1	20
41	Nonlinear interaction of meta-atoms through optical coupling. <i>Applied Physics Letters</i> , 2014, 104, 014104.	1.5	19
42	Competing nonlinearities with metamaterials. <i>Applied Physics Letters</i> , 2012, 101, 231904.	1.5	16
43	A new quadrature annular resonator for $3\hat{\text{T}}$ MRI based on artificial-dielectrics. <i>Journal of Magnetic Resonance</i> , 2018, 291, 47-52.	1.2	16
44	Multipole engineering for enhanced backscattering modulation. <i>Physical Review B</i> , 2020, 102, .	1.1	15
45	Control of the magnetic near-field pattern inside MRI machine with tunable metasurface. <i>Applied Physics Letters</i> , 2019, 115, 061604.	1.5	14
46	Chipless wireless temperature sensor based on quasi-BIC resonance. <i>Applied Physics Letters</i> , 2021, 119, .	1.5	14
47	Topological transition in coated wire medium. <i>Physica Status Solidi - Rapid Research Letters</i> , 2016, 10, 900-904.	1.2	13
48	Experimental realization of invisibility cloaking. <i>Physics-Usppekhi</i> , 2015, 58, 167-190.	0.8	10
49	Hardware RFID Security for Preventing Far-Field Attacks. <i>IEEE Transactions on Antennas and Propagation</i> , 2022, 70, 2199-2204.	3.1	9
50	Anomalous polarization conversion in arrays of ultrathin ferromagnetic nanowires. <i>Physical Review B</i> , 2015, 92, .	1.1	8
51	Coupled very-high permittivity dielectric resonators for clinical MRI. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	8
52	Visualization of Metasurface Eigenmodes with Magnetic Resonance Imaging. <i>Physical Review Applied</i> , 2021, 16, .	1.5	8
53	Photonic spin Hall effect mediated by bianisotropy. <i>Optics Letters</i> , 2019, 44, 1694.	1.7	8
54	Experimental verification of enhancement of evanescent waves inside a wire medium. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	7

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55	An endoscope based on extremely anisotropic metamaterials for applications in magnetic resonance imaging. <i>Journal of Communications Technology and Electronics</i> , 2014, 59, 562-570.	0.2	7
56	Capacitively-loaded metasurfaces and their application in magnetic resonance imaging. , 2015, , .		7
57	Nonlinear symmetry breaking in photometamaterials. <i>Physical Review B</i> , 2018, 97, .	1.1	7
58	Self-aligning roly-poly RFID tag. <i>Scientific Reports</i> , 2022, 12, 2140.	1.6	7
59	Microwave platform as a valuable tool for characterization of nanophotonic devices. <i>Scientific Reports</i> , 2016, 6, 35516.	1.6	5
60	Anapole-enabled RFID security against far-field attacks. <i>Nanophotonics</i> , 2021, 10, 4409-4418.	2.9	5
61	Control of the near magnetic field pattern uniformity inside metamaterial-inspired volumetric resonators. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2022, 48, 100989.	1.0	4
62	Temperature control of electromagnetic topological edge states. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	4
63	Linear to circular polarization converters based on self-complementary metasurfaces. , 2014, , .		3
64	Tunable hybrid metasurfaces for MRI applications. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	3
65	Enhancement of magnetic resonance imaging with metasurfaces: From concept to human trials. , 2017, , .		3
66	In vivo magnetic resonance imaging of human knee with metasurface. , 2017, , .		3
67	Wire metamaterial for the improvement of magnetic resonance imaging. , 2013, , .		2
68	Metasurfaces: Enhancement of Magnetic Resonance Imaging with Metasurfaces (<i>Adv. Mater.</i> 9/2016). <i>Advanced Materials</i> , 2016, 28, 1831-1831.	11.1	2
69	Mode hopping in arrays of resonant thin wires over a dielectric interface. <i>Physical Review B</i> , 2018, 98, .	1.1	2
70	Magnetic Resonance Spectroscopy at 1.5 T with a Hybrid Metasurface. <i>JETP Letters</i> , 2018, 108, 423-427.	0.4	2
71	Third-Harmonic Generation from Photonic Topological States in Zigzag Arrays of Silicon Nanodisks. , 2017, , .		2
72	Energy-Harvesting Coil for Circularly Polarized Fields in Magnetic Resonance Imaging. <i>Physical Review Applied</i> , 2022, 17, .	1.5	2

#	ARTICLE	IF	CITATIONS
73	Superdirective magnetic nanoantennas with effect of light steering: Theory and experiment. , 2013, , .		1
74	Photosensitive SRR-metamaterials. , 2013, , .		1
75	Ultracompact all-dielectric superdirective antennas: Theory and experiment. , 2013, , .		1
76	Wire metamaterial: Enhancement of evanescent waves and application for improvement of magnetic resonance imaging. , 2013, , .		1
77	Light coupling in microwave metamaterials. , 2013, , .		1
78	Self-complementary zig-zag metasurfaces for designing circular polarizing beam splitters. , 2015, , .		1
79	Advanced electromagnetic materials for magnetic resonance imaging. , 2016, , .		1
80	Metasurfaces provide a new way for building magnetic resonance imaging scanners. , 2016, , .		1
81	Experimental Realization of Three-Dimensional All-Dielectric Photonic Topological Insulators. , 2018, , .		1
82	Nonlinear spiral metamaterials. , 2012, , .		0
83	Superdirective nanoantennas: Theory and experiment. , 2013, , .		0
84	Enhancement of evanescent waves inside a wire metamaterial endoscope. , 2013, , .		0
85	Manipulation the near field with wire metamaterials. , 2013, , .		0
86	Novel nonlinear chiral metamaterials. , 2013, , .		0
87	Experimental investigation of magnetic Purcell factor in wire metamaterials. , 2014, , .		0
88	Usage of meta-resonators for improvement of magnetic resonance imaging. , 2015, , .		0
89	Input impedance of small antenna provides Purcell factor. , 2015, , .		0
90	Annular wire metamaterial resonators for Magnetic Resonance Imaging. , 2015, , .		0

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91	Experimental characterization of microwave self-complementary metasurfaces for linear-to-circular polarization transform. , 2016, , .		0
92	Safety aspects of the metamaterial resonator for application in magnetic resonance imaging. , 2016, , .		0
93	Photonic topological edge states in metallic and all-dielectric structures. , 2017, , .		0
94	Tunable hybrid metasurfaces for image quality enhancement. , 2017, , .		0
95	Metasurface-based wireless coils for magnetic resonance imaging. , 2017, , .		0
96	Nonlocal homogenization of coated wire medium. , 2017, , .		0
97	Metasurfaces for Improvement Magnetic Resonance Imaging Characteristics: Novel Designs and in Vivo Studies. , 2018, , .		0
98	Metasurfaces: From Fundamental Ideas of Topological Photonics to Applications in Magnetic Resonance Imaging. , 2018, , .		0
99	Surface coil based on a dielectric resonator tuned to the higher-order modes. Photonics and Nanostructures - Fundamentals and Applications, 2020, 41, 100803.	1.0	0
100	Nonlinear Unidirectional Topological States in Zigzag Arrays of Bianisotropic Dielectric Nanoparticles. , 2018, , .		0
101	Coupled ceramic resonators for clinical MRI applications. AIP Conference Proceedings, 2020, , .	0.3	0