

Alex Krasnok

List of Publications by Year in Descending Order

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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.

114
papers

4,501
citations

38
h-index

65
g-index

153
ext. papers

5,975
ext. citations

9.2
avg, IF

6.19
L-index

#	Paper	IF	Citations
114	Observation of localized magnetic plasmon skyrmions.. <i>Nature Communications</i> , 2022 , 13, 8	17.4	11
113	Low-Symmetry Nanophotonics. <i>ACS Photonics</i> , 2022 , 9, 2-24	6.3	0
112	Electrically driven reprogrammable phase-change metasurface reaching 80% efficiency.. <i>Nature Communications</i> , 2022 , 13, 1696	17.4	21
111	Parity-Time Symmetry and Exceptional Points [Electromagnetic Perspectives]. <i>IEEE Antennas and Propagation Magazine</i> , 2021 , 63, 110-121	1.7	1
110	Wireless power transfer based on novel physical concepts. <i>Nature Electronics</i> , 2021 , 4, 707-716	28.4	17
109	Tunable phase-change metasurfaces. <i>Nature Nanotechnology</i> , 2021 , 16, 615-616	28.7	10
108	Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres. <i>Advanced Materials</i> , 2021 , 33, e2007236	24	5
107	Quantum Embedded Superstates. <i>Advanced Quantum Technologies</i> , 2021 , 4, 2000121	4.3	3
106	Dielectric Nanospheres: Directional Modulation of Exciton Emission Using Single Dielectric Nanospheres (Adv. Mater. 20/2021). <i>Advanced Materials</i> , 2021 , 33, 2170153	24	0
105	Up-And-Coming Advances in Optical and Microwave Nonreciprocity: From Classical to Quantum Realm. <i>Advanced Photonics Research</i> , 2021 , 2, 2000104	1.9	6
104	Interface nano-optics with van der Waals polaritons. <i>Nature</i> , 2021 , 597, 187-195	50.4	28
103	Photonic Rashba effect. <i>Nature Nanotechnology</i> , 2020 , 15, 893-894	28.7	7
102	Virtual Critical Coupling. <i>ACS Photonics</i> , 2020 , 7, 1468-1475	6.3	14
101	Virtual Parity-Time Symmetry. <i>Physical Review Letters</i> , 2020 , 124, 193901	7.4	23
100	Topological polaritons and photonic magic angles in twisted hMoO bilayers. <i>Nature</i> , 2020 , 582, 209-213	50.4	174
99	Berremian Embedded Eigenstates for Narrow-Band Absorption and Thermal Emission. <i>Physical Review Applied</i> , 2020 , 13,	4.3	19
98	. <i>Proceedings of the IEEE</i> , 2020 , 108, 628-654	14.3	18

97	Moiré Hyperbolic Metasurfaces. <i>Nano Letters</i> , 2020 , 20, 3217-3224	11.5	75
96	Virtual optical pulling force. <i>Optica</i> , 2020 , 7, 1024	8.6	9
95	Tunable nanophotonics enabled by chalcogenide phase-change materials. <i>Nanophotonics</i> , 2020 , 9, 1189-1241	13.4	134
94	Semiconductor-Loaded Nonlinear Metasurfaces 2020 , 41-76		
93	Suppressing material loss in the visible and near-infrared range for functional nanophotonics using bandgap engineering. <i>Nature Communications</i> , 2020 , 11, 5055	17.4	17
92	Obstruction tolerant metasurface-based wireless power transfer system for multiple receivers. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2020 , 41, 100835	2.6	2
91	Coherent Perfect Diffraction in Metagratings. <i>Advanced Materials</i> , 2020 , 32, e2002341	24	12
90	Nanophotonic engineering of far-field thermal emitters. <i>Nature Materials</i> , 2019 , 18, 920-930	27	122
89	Dark-Exciton-Mediated Fano Resonance from a Single Gold Nanostructure on Monolayer WS at Room Temperature. <i>Small</i> , 2019 , 15, e1900982	11	16
88	All-optical reconfigurable chiral meta-molecules. <i>Materials Today</i> , 2019 , 25, 10-20	21.8	40
87	Enhanced excitation and emission from 2D transition metal dichalcogenides with all-dielectric nanoantennas. <i>Nanotechnology</i> , 2019 , 30, 254004	3.4	11
86	Separation of valley excitons in a MoS2 monolayer using a subwavelength asymmetric groove array. <i>Nature Photonics</i> , 2019 , 13, 180-184	33.9	86
85	Dark Excitons: Dark-Exciton-Mediated Fano Resonance from a Single Gold Nanostructure on Monolayer WS2 at Room Temperature (Small 31/2019). <i>Small</i> , 2019 , 15, 1970164	11	
84	Nonscattering-to-Superscattering Switch with Phase-Change Materials. <i>ACS Photonics</i> , 2019 , 6, 2126-2132	3.3	20
83	Coherently Driven and Superdirective Antennas. <i>Electronics (Switzerland)</i> , 2019 , 8, 845	2.6	3
82	Can a Nonradiating Mode Be Externally Excited? Nonscattering States versus Embedded Eigenstates. <i>ACS Photonics</i> , 2019 , 6, 3108-3114	6.3	39
81	Anomalies in light scattering. <i>Advances in Optics and Photonics</i> , 2019 , 11, 892	16.7	76
80	Tunable Fano Resonance and Plasmon-Exciton Coupling in Single Au Nanotriangles on Monolayer WS at Room Temperature. <i>Advanced Materials</i> , 2018 , 30, e1705779	24	56

79	Resolving the multipolar scattering modes of a submicron particle using parametric indirect microscopic imaging. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2018 , 30, 7-13	2.6	2
78	Tunable Resonance Coupling in Single Si Nanoparticle-Monolayer WS Structures. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16690-16697	9.5	54
77	All-Optical Switching and Unidirectional Plasmon Launching with Nonlinear Dielectric Nanoantennas. <i>Physical Review Applied</i> , 2018 , 9,	4.3	24
76	Enhancement of Raman scattering in dielectric nanostructures with electric and magnetic Mie resonances. <i>Physical Review B</i> , 2018 , 97,	3.3	28
75	Spectroscopy and Biosensing with Optically Resonant Dielectric Nanostructures. <i>Advanced Optical Materials</i> , 2018 , 6, 1701094	8.1	97
74	Chiral all-dielectric trimer nanoantenna. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2018 , 208, 71-77	2.1	12
73	Embedded scattering eigenstates using resonant metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2018 , 20, 064002	1.7	25
72	Boosting Terahertz Photoconductive Antenna Performance with Optimised Plasmonic Nanostructures. <i>Scientific Reports</i> , 2018 , 8, 6624	4.9	46
71	Coherently Enhanced Wireless Power Transfer. <i>Physical Review Letters</i> , 2018 , 120, 143901	7.4	22
70	Nonlinear metasurfaces: a paradigm shift in nonlinear optics. <i>Materials Today</i> , 2018 , 21, 8-21	21.8	241
69	Nanophotonics with 2D transition metal dichalcogenides [Invited]. <i>Optics Express</i> , 2018 , 26, 15972-15994	9.3	91
68	Strong Coupling in Si Nanoparticle Core - 2D WS ₂ Shell Structure. <i>Journal of Physics: Conference Series</i> , 2018 , 1092, 012077	0.3	
67	Coherently enhanced wireless power transfer: theory and experiment. <i>Journal of Physics: Conference Series</i> , 2018 , 1092, 012078	0.3	
66	Hybrid nanophotonics. <i>Physics-Uspekhi</i> , 2018 , 61, 1035-1050	2.8	24
65	Enhanced light outcoupling in microdisk lasers via Si spherical nanoantennas. <i>Journal of Applied Physics</i> , 2018 , 124, 163102	2.5	13
64	Novel Optimized Hybrid Terahertz Photoconductive Antennas. <i>Journal of Physics: Conference Series</i> , 2018 , 1092, 012076	0.3	2
63	Valley-Selective Response of Nanostructures Coupled to 2D Transition-Metal Dichalcogenides. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 1157	2.6	18
62	Localized All-Optical Control of Single Semiconductor Quantum Dots through Plasmon Polariton-Induced Screening. <i>Advanced Optical Materials</i> , 2018 , 6, 1800345	8.1	

61	Fano Resonances: Tunable Fano Resonance and Plasmon-Exciton Coupling in Single Au Nanotriangles on Monolayer WS ₂ at Room Temperature (Adv. Mater. 22/2018). <i>Advanced Materials</i> , 2018 , 30, 1870155	24	
60	Fine-Tuning of the Magnetic Fano Resonance in Hybrid Oligomers via fs-Laser-Induced Reshaping. <i>ACS Photonics</i> , 2017 , 4, 536-543	6.3	25
59	High-quality laser cavity based on all-dielectric metasurfaces. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2017 , 24, 18-23	2.6	11
58	Light Outcoupling from Quantum Dot-Based Microdisk Laser via Plasmonic Nanoantenna. <i>ACS Photonics</i> , 2017 , 4, 275-281	6.3	27
57	Modifying magnetic dipole spontaneous emission with nanophotonic structures. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1600268	8.3	73
56	Enhancement of terahertz photoconductive antenna operation by optical nanoantennas. <i>Laser and Photonics Reviews</i> , 2017 , 11, 1600199	8.3	73
55	Approach for fine-tuning of hybrid dimer antennas via laser melting at the nanoscale. <i>Annalen Der Physik</i> , 2017 , 529, 1600272	2.6	5
54	Coherent perfect absorbers: linear control of light with light. <i>Nature Reviews Materials</i> , 2017 , 2,	73.3	163
53	Core-shell Yagi-Uda nanoantenna for highly efficient and directive emission. <i>Journal of Physics: Conference Series</i> , 2017 , 929, 012066	0.3	1
52	All-dielectric nanophotonics: the quest for better materials and fabrication techniques. <i>Optica</i> , 2017 , 4, 814	8.6	223
51	Dielectric Yagi-Uda nanoantennas driven by electron-hole plasma photoexcitation. <i>Journal of Physics: Conference Series</i> , 2017 , 917, 062054	0.3	
50	Optimization of Nanoantenna-Enhanced Terahertz Emission from Photoconductive Antennas. <i>Journal of Physics: Conference Series</i> , 2017 , 917, 062060	0.3	1
49	Dynamically reconfigurable metal-semiconductor Yagi-Uda nanoantenna. <i>Physical Review B</i> , 2017 , 95,	3.3	16
48	Coherent virtual absorption based on complex zero excitation for ideal light capturing. <i>Optica</i> , 2017 , 4, 1457	8.6	44
47	Nonlinear core-shell Yagi-Uda nanoantenna for highly tunable directive emission 2017 ,		1
46	Self-adjusted all-dielectric metasurfaces for deep ultraviolet femtosecond pulse generation. <i>Nanoscale</i> , 2016 , 8, 17809-17814	7.7	46
45	Direct Femtosecond Laser Writing of Optical Nanoresonators. <i>Journal of Physics: Conference Series</i> , 2016 , 690, 012021	0.3	1
44	Nonlinear Transient Dynamics of Photoexcited Resonant Silicon Nanostructures. <i>ACS Photonics</i> , 2016 , 3, 1546-1551	6.3	55

43	Tuning of near- and far-field properties of all-dielectric dimer nanoantennas via ultrafast electron-hole plasma photoexcitation. <i>Laser and Photonics Reviews</i> , 2016 , 10, 1009-1015	8.3	44
42	Improved emission outcoupling from microdisk laser by Si nanospheres. <i>Journal of Physics: Conference Series</i> , 2016 , 741, 012158	0.3	2
41	Single-stage fabrication of low-loss dielectric nanoresonators from high-loss material. <i>Journal of Physics: Conference Series</i> , 2016 , 690, 012020	0.3	3
40	Laser fabrication of crystalline silicon nanoresonators from an amorphous film for low-loss all-dielectric nanophotonics. <i>Nanoscale</i> , 2016 , 8, 5043-8	7.7	78
39	Fabrication of Hybrid Nanostructures via Nanoscale Laser-Induced Reshaping for Advanced Light Manipulation. <i>Advanced Materials</i> , 2016 , 28, 3087-93	24	81
38	The role of Purcell effect for third harmonic generation. <i>Journal of Physics: Conference Series</i> , 2016 , 690, 012034	0.3	1
37	Enhancement of artificial magnetism via resonant bianisotropy. <i>Scientific Reports</i> , 2016 , 6, 22546	4.9	33
36	Manipulating Fano resonance via fs-laser melting of hybrid oligomers at nanoscale. <i>Journal of Physics: Conference Series</i> , 2016 , 741, 012140	0.3	1
35	Optical tuning of near and far fields form hybrid dimer nanoantennas via laser-induced melting. <i>Journal of Physics: Conference Series</i> , 2016 , 741, 012152	0.3	2
34	Demonstration of the enhanced Purcell factor in all-dielectric structures. <i>Applied Physics Letters</i> , 2016 , 108, 211105	3.4	47
33	Laser-Induced Periodical Structures Fabrication for Third Harmonic Generation. <i>Journal of Physics: Conference Series</i> , 2016 , 741, 012112	0.3	
32	Femtosecond laser transfer of silicon nanoparticles with enhanced Raman response 2016 ,		2
31	Resonant Raman scattering from silicon nanoparticles enhanced by magnetic response. <i>Nanoscale</i> , 2016 , 8, 9721-6	7.7	101
30	Solitary Waves in Chains of High-Index Dielectric Nanoparticles. <i>ACS Photonics</i> , 2016 , 3, 1869-1876	6.3	13
29	Controllable femtosecond laser-induced dewetting for plasmonic applications. <i>Laser and Photonics Reviews</i> , 2016 , 10, 91-99	8.3	55
28	Towards all-dielectric metamaterials and nanophotonics 2015 ,		48
27	From optical magnetic resonance to dielectric nanophotonics (A review). <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2015 , 119, 551-568	0.7	26
26	Tuning of Magnetic Optical Response in a Dielectric Nanoparticle by Ultrafast Photoexcitation of Dense Electron-Hole Plasma. <i>Nano Letters</i> , 2015 , 15, 6187-92	11.5	121

25	Resonant transmission of light in chains of high-index dielectric particles. <i>Physical Review B</i> , 2015 , 92,	3.3	16
24	Comment on "electromagnetic radiation under explicit symmetry breaking". <i>Physical Review Letters</i> , 2015 , 115, 119701	7.4	4
23	An antenna model for the Purcell effect. <i>Scientific Reports</i> , 2015 , 5, 12956	4.9	115
22	All-dielectric nanoantennas for unidirectional excitation of electromagnetic guided modes. <i>Applied Physics Letters</i> , 2015 , 107, 171101	3.4	31
21	Enhanced emission extraction and selective excitation of NV centers with all-dielectric nanoantennas. <i>Laser and Photonics Reviews</i> , 2015 , 9, 385-391	8.3	18
20	Experimental demonstration of superdirective dielectric antenna. <i>Applied Physics Letters</i> , 2014 , 104, 133502	3.4	39
19	Magnetic Purcell factor in wire metamaterials. <i>Applied Physics Letters</i> , 2014 , 104, 161105	3.4	26
18	Plasmonic nanostructures for local field enhancement in the UV region. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2014 , 12, 2-8	2.6	5
17	Bending of electromagnetic waves in all-dielectric particle array waveguides. <i>Applied Physics Letters</i> , 2014 , 105, 181116	3.4	33
16	Superdirective dielectric nanoantennas. <i>Nanoscale</i> , 2014 , 6, 7354-61	7.7	134
15	Near-field mapping of Fano resonances in all-dielectric oligomers. <i>Applied Physics Letters</i> , 2014 , 104, 021104	3.4	59
14	Superdirective all-dielectric nanoantennas: theory and experiment. <i>IOP Conference Series: Materials Science and Engineering</i> , 2014 , 67, 012008	0.4	3
13	Superdirective magnetic nanoantennas with effect of light steering: Theory and experiment 2013 ,		1
12	Ultracompact all-dielectric superdirective antennas: Theory and experiment 2013 ,		1
11	All-dielectric nanoantennas 2013 ,		3
10	Optical nanoantennas. <i>Physics-Uspekhi</i> , 2013 , 56, 539-564	2.8	146
9	All-dielectric optical nanoantennas 2012 ,		5
8	Nonlinear metal-dielectric nanoantennas for light switching and routing. <i>New Journal of Physics</i> , 2012 , 14, 093005	2.9	58

7	All-dielectric optical nanoantennas. <i>Optics Express</i> , 2012 , 20, 20599-604	3.3	387
6	Experimental verification of the concept of all-dielectric nanoantennas. <i>Applied Physics Letters</i> , 2012 , 100, 201113	3.4	103
5	Huygens optical elements and Yagi-Uda nanoantennas based on dielectric nanoparticles. <i>JETP Letters</i> , 2011 , 94, 593-598	1.2	79
4	Effect of quantum dot shape dispersion on their joint density of states. <i>Technical Physics Letters</i> , 2011 , 37, 431-434	0.7	
3	A model of nonlinear optical transmittance for insulator nanocomposites. <i>Semiconductors</i> , 2011 , 45, 295-301	3.9	11
2	Nonlinear refractive index of dielectric nanocomposites in weak optical fields. <i>Technical Physics Letters</i> , 2010 , 36, 973-977	0.7	16
1	Dark-State Induced Quantum Nonreciprocity. <i>Advanced Quantum Technologies</i> , 2010 , 2, 100112	4.3	1