

# Xiaodong Yang

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1931508/publications.pdf>

Version: 2024-02-01

78  
papers

3,272  
citations

159358

30  
h-index

149479

56  
g-index

78  
all docs

78  
docs citations

78  
times ranked

3295  
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental realization of three-dimensional indefinite cavities at the nanoscale with anomalous scaling laws. <i>Nature Photonics</i> , 2012, 6, 450-454.	15.6	316
2	Structural color printing based on plasmonic metasurfaces of perfect light absorption. <i>Scientific Reports</i> , 2015, 5, 11045.	1.6	254
3	Full-Color Plasmonic Metasurface Holograms. <i>ACS Nano</i> , 2016, 10, 10671-10680.	7.3	225
4	Metasurface Holograms for Holographic Imaging. <i>Advanced Optical Materials</i> , 2017, 5, 1700541.	3.6	149
5	3D Janus plasmonic helical nanoapertures for polarization-encrypted data storage. <i>Light: Science and Applications</i> , 2019, 8, 45.	7.7	140
6	Spin-controlled wavefront shaping with plasmonic chiral geometric metasurfaces. <i>Light: Science and Applications</i> , 2018, 7, 84.	7.7	113
7	Generating Focused 3D Perfect Vortex Beams By Plasmonic Metasurfaces. <i>Advanced Optical Materials</i> , 2018, 6, 1701228.	3.6	111
8	Aluminum plasmonic metamaterials for structural color printing. <i>Optics Express</i> , 2015, 23, 14552.	1.7	110
9	Generating and Separating Twisted Light by gradient-rotation Split-Ring Antenna Metasurfaces. <i>Nano Letters</i> , 2016, 16, 3101-3108.	4.5	110
10	Chiral Metamaterials of Plasmonic Slanted Nanoapertures with Symmetry Breaking. <i>Nano Letters</i> , 2018, 18, 520-527.	4.5	106
11	Experimental realization of epsilon-near-zero metamaterial slabs with metal-dielectric multilayers. <i>Applied Physics Letters</i> , 2013, 103, .	1.5	83
12	Wavelength-selective mid-infrared metamaterial absorbers with multiple tungsten cross resonators. <i>Optics Express</i> , 2018, 26, 5616.	1.7	81
13	Near-infrared chiral plasmonic metasurface absorbers. <i>Optics Express</i> , 2018, 26, 31484.	1.7	66
14	Enhanced Quantum Dot Spontaneous Emission with Multilayer Metamaterial Nanostructures. <i>ACS Photonics</i> , 2017, 4, 501-508.	3.2	62
15	Atomically Thin Nonlinear Transition Metal Dichalcogenide Holograms. <i>Nano Letters</i> , 2019, 19, 6511-6516.	4.5	61
16	Direction-Controlled Bifunctional Metasurface Polarizers. <i>Laser and Photonics Reviews</i> , 2018, 12, 1800198.	4.4	60
17	Loss enhanced transmission and collimation in anisotropic epsilon-near-zero metamaterials. <i>Applied Physics Letters</i> , 2012, 101, .	1.5	57
18	Ultrasensitive detection and characterization of molecules with infrared plasmonic metamaterials. <i>Scientific Reports</i> , 2015, 5, 14327.	1.6	55

#	ARTICLE	IF	CITATIONS
19	Chiral Grayscale Imaging with Plasmonic Metasurfaces of Stepped Nanoapertures. <i>Advanced Optical Materials</i> , 2019, 7, 1801467.	3.6	55
20	Broadband infrared absorbers with stacked double chromium ring resonators. <i>Optics Express</i> , 2017, 25, 28295.	1.7	50
21	Enhanced structural color generation in aluminum metamaterials coated with a thin polymer layer. <i>Optics Express</i> , 2015, 23, 25329.	1.7	44
22	Broadband polarization conversion with anisotropic plasmonic metasurfaces. <i>Scientific Reports</i> , 2017, 7, 8841.	1.6	41
23	All-metal structural color printing based on aluminum plasmonic metasurfaces. <i>Optics Express</i> , 2016, 24, 20472.	1.7	40
24	Chiral plasmonic metasurface absorbers in the mid-infrared wavelength range. <i>Optics Letters</i> , 2020, 45, 5372.	1.7	40
25	Strong coupling between mid-infrared localized plasmons and phonons. <i>Optics Express</i> , 2016, 24, 12367.	1.7	38
26	Strong circular dichroism in chiral plasmonic metasurfaces optimized by micro-genetic algorithm. <i>Optics Express</i> , 2019, 27, 28313.	1.7	38
27	Nonlocal effective medium analysis in symmetric metal-dielectric multilayer metamaterials. <i>Physical Review B</i> , 2015, 91, .	1.1	37
28	Experimental demonstration of near-infrared epsilon-near-zero multilayer metamaterial slabs. <i>Optics Express</i> , 2013, 21, 23631.	1.7	36
29	Spin-selective Second-Harmonic Vortex Beam Generation with Inverted Plasmonic Metasurfaces. <i>Advanced Optical Materials</i> , 2018, 6, 1800646.	3.6	34
30	Giant optical nonlocality near the Dirac point in metal-dielectric multilayer metamaterials. <i>Optics Express</i> , 2013, 21, 21542.	1.7	33
31	Broadband infrared circular dichroism in chiral metasurface absorbers. <i>Nanotechnology</i> , 2020, 31, 295203.	1.3	31
32	Structuring Light by Concentric-Ring Patterned Magnetic Metamaterial Cavities. <i>Nano Letters</i> , 2015, 15, 5363-5368.	4.5	30
33	Broadband epsilon-near-zero metamaterials with steplike metal-dielectric multilayer structures. <i>Physical Review B</i> , 2013, 87, .	1.1	29
34	Anisotropic Third-Harmonic Generation in Layered Germanium Selenide. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900416.	4.4	28
35	Realizing structural color generation with aluminum plasmonic V-groove metasurfaces. <i>Optics Express</i> , 2017, 25, 20454.	1.7	27
36	Nonlocal effective medium approximation for metallic nanorod metamaterials. <i>Physical Review B</i> , 2015, 91, .	1.1	26

#	ARTICLE	IF	CITATIONS
37	Dual-band selective circular dichroism in mid-infrared chiral metasurfaces. <i>Optics Express</i> , 2022, 30, 20063.	1.7	26
38	Nonlinear Beam Shaping with Binary Phase Modulation on Patterned WS <sub>2</sub> Monolayer. <i>ACS Photonics</i> , 2020, 7, 2506-2514.	3.2	24
39	Quantum entanglement in plasmonic waveguides with near-zero mode indices. <i>Optics Letters</i> , 2013, 38, 4078.	1.7	23
40	Plasmon-phonon coupling between mid-infrared chiral metasurfaces and molecular vibrations. <i>Optics Express</i> , 2020, 28, 21192.	1.7	23
41	Generation of Nondiffracting Vector Beams with Ring-Shaped Plasmonic Metasurfaces. <i>Physical Review Applied</i> , 2019, 11, .	1.5	21
42	Orbital angular momentum transformation of optical vortex with aluminum metasurfaces. <i>Scientific Reports</i> , 2019, 9, 9133.	1.6	20
43	Generation of polarization singularities with geometric metasurfaces. <i>Scientific Reports</i> , 2019, 9, 19656.	1.6	18
44	2D layered SiP as anisotropic nonlinear optical material. <i>Scientific Reports</i> , 2021, 11, 6372.	1.6	18
45	In-plane anisotropic third-harmonic generation from germanium arsenide thin flakes. <i>Scientific Reports</i> , 2020, 10, 14282.	1.6	17
46	Spatial variation of vector vortex beams with plasmonic metasurfaces. <i>Scientific Reports</i> , 2019, 9, 9969.	1.6	16
47	Naturally occurring layered mineral franckeite with anisotropic Raman scattering and third-harmonic generation responses. <i>Scientific Reports</i> , 2021, 11, 8510.	1.6	16
48	Twisting phase and intensity of light with plasmonic metasurfaces. <i>Scientific Reports</i> , 2018, 8, 4884.	1.6	15
49	Topological Charge Inversion of Optical Vortex with Geometric Metasurfaces. <i>Advanced Optical Materials</i> , 2019, 7, 1801486.	3.6	15
50	Natural van der Waals heterostructure cylindrite with highly anisotropic optical responses. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	14
51	Van der Waals Layered Mineral Getchellite with Anisotropic Linear and Nonlinear Optical Responses. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100182.	4.4	14
52	Plasmonic Brownian ratchet. <i>Physical Review B</i> , 2013, 88, .	1.1	13
53	Spiraling Light with Magnetic Metamaterial Quarter-Wave Turbines. <i>Scientific Reports</i> , 2017, 7, 11824.	1.6	12
54	Second-harmonic optical vortex conversion from WS <sub>2</sub> monolayer. <i>Scientific Reports</i> , 2019, 9, 8780.	1.6	12

#	ARTICLE	IF	CITATIONS
55	Analysis of nonlocal effective permittivity and permeability in symmetric metal-dielectric multilayer metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2016, 18, 065101.	1.0	11
56	Generation of three-dimensional optical cusp beams with ultrathin metasurfaces. <i>Scientific Reports</i> , 2018, 8, 9493.	1.6	11
57	Optical Vortex Transmutation with Geometric Metasurfaces of Rotational Symmetry Breaking. <i>Advanced Optical Materials</i> , 2019, 7, 1901152.	3.6	11
58	Deep subwavelength beam propagation in extremely loss-anisotropic metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2013, 15, 055105.	1.0	10
59	Experimental characterization of optical nonlocality in metal-dielectric multilayer metamaterials. <i>Optics Express</i> , 2014, 22, 22974.	1.7	10
60	Diffraction-free optical beam propagation with near-zero phase variation in extremely anisotropic metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2015, 17, 035101.	1.0	9
61	Enhanced quantum dots spontaneous emission with metamaterial perfect absorbers. <i>Applied Physics Letters</i> , 2019, 114, 021103.	1.5	8
62	Scaling law of Purcell factor in hyperbolic metamaterial cavities with dipole excitation. <i>Optics Letters</i> , 2019, 44, 471.	1.7	7
63	Polarization-dependent optical responses in natural 2D layered mineral teallite. <i>Scientific Reports</i> , 2021, 11, 21895.	1.6	7
64	Naturally occurring van der Waals heterostructure lengenbachite with strong in-plane structural and optical anisotropy. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	7
65	Nonlinear conversion of orbital angular momentum in tungsten disulfide monolayer. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 125404.	1.0	6
66	Determination of effective parameters of fishnet metamaterials with vortex based interferometry. <i>Optics Express</i> , 2020, 28, 20051.	1.7	6
67	Naturally Occurring 2D Heterostructure Nagyite with Anisotropic Optical Properties. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101106.	1.9	6
68	Optical transportation and accumulation of microparticles by self-accelerating cusp beams. <i>Physical Review A</i> , 2019, 99, .	1.0	5
69	Optical nonlocality induced Zitterbewegung near the Dirac point in metal-dielectric multilayer metamaterials. <i>Optics Express</i> , 2016, 24, 7055.	1.7	4
70	Spontaneous emission rate enhancement with aperiodic Thue-Morse multilayer. <i>Scientific Reports</i> , 2019, 9, 8473.	1.6	4
71	Anisotropic optical responses of layered thallium arsenic sulfosalt gillulyite. <i>Scientific Reports</i> , 2021, 11, 22002.	1.6	4
72	Optical transportation of micro-particles by non-diffracting Weber beams. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 125404.	1.0	5

#	ARTICLE	IF	CITATIONS
73	Polarization-sensitive optical responses from natural layered hydrated sodium sulfosalt gerstleyite. Scientific Reports, 2022, 12, 4242.	1.6	3
74	Klein tunneling near the Dirac points in metal-dielectric multilayer metamaterials. Scientific Reports, 2017, 7, 9678.	1.6	2
75	Natural 2D layered mineral cannizzarite with anisotropic optical responses. Scientific Reports, 2022, 12, .	1.6	2
76	Structured light generation by magnetic metamaterial half-wave plates at visible wavelength. Journal of Optics (United Kingdom), 2017, 19, 125103.	1.0	1
77	Natural layered mercury antimony sulfosalt livingstonite with anisotropic optical properties. Optics Express, 0, , .	1.7	1
78	Anisotropic third-harmonic generation of exfoliated As <sub>2</sub> S <sub>3</sub> thin flakes. Optics Express, 0, , .	1.7	1