

Xiaodong Yang

List of Publications by Year in descending order

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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	Polarization-sensitive optical responses from natural layered hydrated sodium sulfosalt gerstleyite. <i>Scientific Reports</i> , 2022, 12, 4242.	1.6	3
2	Dual-band selective circular dichroism in mid-infrared chiral metasurfaces. <i>Optics Express</i> , 2022, 30, 20063.	1.7	26
3	Natural 2D layered mineral cannizzarite with anisotropic optical responses. <i>Scientific Reports</i> , 2022, 12, .	1.6	2
4	2D layered SiP as anisotropic nonlinear optical material. <i>Scientific Reports</i> , 2021, 11, 6372.	1.6	18
5	Naturally occurring layered mineral franckeite with anisotropic Raman scattering and third-harmonic generation responses. <i>Scientific Reports</i> , 2021, 11, 8510.	1.6	16
6	Natural van der Waals heterostructure cylindrite with highly anisotropic optical responses. <i>Npj 2D Materials and Applications</i> , 2021, 5, .	3.9	14
7	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
8	Anisotropic optical responses of layered thallium arsenic sulfosalt gillulyite. <i>Scientific Reports</i> , 2021, 11, 22002.	1.6	4
9	Polarization-dependent optical responses in natural 2D layered mineral teallite. <i>Scientific Reports</i> , 2021, 11, 21895.	1.6	7
10	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
11	Naturally Occurring 2D Heterostructure NagyÅigite with Anisotropic Optical Properties. <i>Advanced Materials Interfaces</i> , 2021, 8, 2101106.	1.9	6
12	Nonlinear Beam Shaping with Binary Phase Modulation on Patterned WS ₂ Monolayer. <i>ACS Photonics</i> , 2020, 7, 2506-2514.	3.2	24
13	In-plane anisotropic third-harmonic generation from germanium arsenide thin flakes. <i>Scientific Reports</i> , 2020, 10, 14282.	1.6	17
14	Anisotropic Third-Harmonic Generation in Layered Germanium Selenide. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900416.	4.4	28
15	Broadband infrared circular dichroism in chiral metasurface absorbers. <i>Nanotechnology</i> , 2020, 31, 295203.	1.3	31
16	Plasmon-phonon coupling between mid-infrared chiral metasurfaces and molecular vibrations. <i>Optics Express</i> , 2020, 28, 21192.	1.7	23
17	Chiral plasmonic metasurface absorbers in the mid-infrared wavelength range. <i>Optics Letters</i> , 2020, 45, 5372.	1.7	40
18	Determination of effective parameters of fishnet metamaterials with vortex based interferometry. <i>Optics Express</i> , 2020, 28, 20051.	1.7	6

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19	Atomically Thin Nonlinear Transition Metal Dichalcogenide Holograms. <i>Nano Letters</i> , 2019, 19, 6511-6516.	4.5	61
20	Optical Vortex Transmutation with Geometric Metasurfaces of Rotational Symmetry Breaking. <i>Advanced Optical Materials</i> , 2019, 7, 1901152.	3.6	11
21	Spatial variation of vector vortex beams with plasmonic metasurfaces. <i>Scientific Reports</i> , 2019, 9, 9969.	1.6	16
22	Generation of Nondiffracting Vector Beams with Ring-Shaped Plasmonic Metasurfaces. <i>Physical Review Applied</i> , 2019, 11, .	1.5	21
23	Nonlinear conversion of orbital angular momentum in tungsten disulfide monolayer. <i>Journal of Optics (United Kingdom)</i> , 2019, 21, 125404.	1.0	6
24	Topological Charge Inversion of Optical Vortex with Geometric Metasurfaces. <i>Advanced Optical Materials</i> , 2019, 7, 1801486.	3.6	15
25	Second-harmonic optical vortex conversion from WS ₂ monolayer. <i>Scientific Reports</i> , 2019, 9, 8780.	1.6	12
26	Spontaneous emission rate enhancement with aperiodic Thue-Morse multilayer. <i>Scientific Reports</i> , 2019, 9, 8473.	1.6	4
27	Orbital angular momentum transformation of optical vortex with aluminum metasurfaces. <i>Scientific Reports</i> , 2019, 9, 9133.	1.6	20
28	Optical transportation and accumulation of microparticles by self-accelerating cusp beams. <i>Physical Review A</i> , 2019, 99, .	1.0	5
29	3D Janus plasmonic helical nanoapertures for polarization-encrypted data storage. <i>Light: Science and Applications</i> , 2019, 8, 45.	7.7	140
30	Generation of polarization singularities with geometric metasurfaces. <i>Scientific Reports</i> , 2019, 9, 19656.	1.6	18
31	Chiral Grayscale Imaging with Plasmonic Metasurfaces of Stepped Nanoapertures. <i>Advanced Optical Materials</i> , 2019, 7, 1801467.	3.6	55
32	Enhanced quantum dots spontaneous emission with metamaterial perfect absorbers. <i>Applied Physics Letters</i> , 2019, 114, 021103.	1.5	8
33	Strong circular dichroism in chiral plasmonic metasurfaces optimized by micro-genetic algorithm. <i>Optics Express</i> , 2019, 27, 28313.	1.7	38
34	Scaling law of Purcell factor in hyperbolic metamaterial cavities with dipole excitation. <i>Optics Letters</i> , 2019, 44, 471.	1.7	7
35	Generating Focused 3D Perfect Vortex Beams By Plasmonic Metasurfaces. <i>Advanced Optical Materials</i> , 2018, 6, 1701228.	3.6	111
36	Twisting phase and intensity of light with plasmonic metasurfaces. <i>Scientific Reports</i> , 2018, 8, 4884.	1.6	15

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37	Optical transportation of micro-particles by non-diffracting Weber beams. Journal of Optics (United Kingdom), 2017, 19, 125103.	1.0	1
38	Chiral Metamaterials of Plasmonic Slanted Nanoapertures with Symmetry Breaking. Nano Letters, 2018, 18, 520-527.	4.5	106
39	Spin-controlled wavefront shaping with plasmonic chiral geometric metasurfaces. Light: Science and Applications, 2018, 7, 84.	7.7	113
40	Direction-controlled Bifunctional Metasurface Polarizers. Laser and Photonics Reviews, 2018, 12, 1800198.	4.4	60
41	Generation of three-dimensional optical cusp beams with ultrathin metasurfaces. Scientific Reports, 2018, 8, 9493.	1.6	11
42	Wavelength-selective mid-infrared metamaterial absorbers with multiple tungsten cross resonators. Optics Express, 2018, 26, 5616.	1.7	81
43	Spin-selective Second-Harmonic Vortex Beam Generation with Inverted Plasmonic Metasurfaces. Advanced Optical Materials, 2018, 6, 1800646.	3.6	34
44	Near-infrared chiral plasmonic metasurface absorbers. Optics Express, 2018, 26, 31484.	1.7	66
45	Enhanced Quantum Dot Spontaneous Emission with Multilayer Metamaterial Nanostructures. ACS Photonics, 2017, 4, 501-508.	3.2	62
46	Structured light generation by magnetic metamaterial half-wave plates at visible wavelength. Journal of Optics (United Kingdom), 2017, 19, 125103.	1.0	1
47	Metasurface Holograms for Holographic Imaging. Advanced Optical Materials, 2017, 5, 1700541.	3.6	149
48	Broadband polarization conversion with anisotropic plasmonic metasurfaces. Scientific Reports, 2017, 7, 8841.	1.6	41
49	Klein tunneling near the Dirac points in metal-dielectric multilayer metamaterials. Scientific Reports, 2017, 7, 9678.	1.6	2
50	Spiraling Light with Magnetic Metamaterial Quarter-Wave Turbines. Scientific Reports, 2017, 7, 11824.	1.6	12
51	Broadband infrared absorbers with stacked double chromium ring resonators. Optics Express, 2017, 25, 28295.	1.7	50
52	Realizing structural color generation with aluminum plasmonic V-groove metasurfaces. Optics Express, 2017, 25, 20454.	1.7	27
53	Analysis of nonlocal effective permittivity and permeability in symmetric metal-dielectric multilayer metamaterials. Journal of Optics (United Kingdom), 2016, 18, 065101.	1.0	11
54	Generating and Separating Twisted Light by gradient-rotation Split-Ring Antenna Metasurfaces. Nano Letters, 2016, 16, 3101-3108.	4.5	110

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55	Full-Color Plasmonic Metasurface Holograms. ACS Nano, 2016, 10, 10671-10680.	7.3	225
56	All-metal structural color printing based on aluminum plasmonic metasurfaces. Optics Express, 2016, 24, 20472.	1.7	40
57	Strong coupling between mid-infrared localized plasmons and phonons. Optics Express, 2016, 24, 12367.	1.7	38
58	Optical nonlocality induced Zitterbewegung near the Dirac point in metal-dielectric multilayer metamaterials. Optics Express, 2016, 24, 7055.	1.7	4
59	Nonlocal effective medium approximation for metallic nanorod metamaterials. Physical Review B, 2015, 91, .	1.1	26
60	Nonlocal effective medium analysis in symmetric metal-dielectric multilayer metamaterials. Physical Review B, 2015, 91, .	1.1	37
61	Ultrasensitive detection and characterization of molecules with infrared plasmonic metamaterials. Scientific Reports, 2015, 5, 14327.	1.6	55
62	Diffraction-free optical beam propagation with near-zero phase variation in extremely anisotropic metamaterials. Journal of Optics (United Kingdom), 2015, 17, 035101.	1.0	9
63	Structuring Light by Concentric-Ring Patterned Magnetic Metamaterial Cavities. Nano Letters, 2015, 15, 5363-5368.	4.5	30
64	Structural color printing based on plasmonic metasurfaces of perfect light absorption. Scientific Reports, 2015, 5, 11045.	1.6	254
65	Aluminum plasmonic metamaterials for structural color printing. Optics Express, 2015, 23, 14552.	1.7	110
66	Enhanced structural color generation in aluminum metamaterials coated with a thin polymer layer. Optics Express, 2015, 23, 25329.	1.7	44
67	Experimental characterization of optical nonlocality in metal-dielectric multilayer metamaterials. Optics Express, 2014, 22, 22974.	1.7	10
68	Experimental realization of epsilon-near-zero metamaterial slabs with metal-dielectric multilayers. Applied Physics Letters, 2013, 103, .	1.5	83
69	Broadband epsilon-near-zero metamaterials with steplike metal-dielectric multilayer structures. Physical Review B, 2013, 87, .	1.1	29
70	Giant optical nonlocality near the Dirac point in metal-dielectric multilayer metamaterials. Optics Express, 2013, 21, 21542.	1.7	33
71	Experimental demonstration of near-infrared epsilon-near-zero multilayer metamaterial slabs. Optics Express, 2013, 21, 23631.	1.7	36
72	Quantum entanglement in plasmonic waveguides with near-zero mode indices. Optics Letters, 2013, 38, 4078.	1.7	23

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73	Deep subwavelength beam propagation in extremely loss-anisotropic metamaterials. Journal of Optics (United Kingdom), 2013, 15, 055105.	1.0	10
74	Plasmonic Brownian ratchet. Physical Review B, 2013, 88, .	1.1	13
75	Loss enhanced transmission and collimation in anisotropic epsilon-near-zero metamaterials. Applied Physics Letters, 2012, 101, .	1.5	57
76	Experimental realization of three-dimensional indefinite cavities at the nanoscale with anomalous scaling laws. Nature Photonics, 2012, 6, 450-454.	15.6	316
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 ₂ S ₃ thin flakes. Optics Express, 0, , .	1.7	1