

Jie Gao

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,363
citations

236925

25
h-index

206112

48
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57
all docs

57
docs citations

57
times ranked

2467
citing authors

#	ARTICLE	IF	CITATIONS
1	Structural color printing based on plasmonic metasurfaces of perfect light absorption. Scientific Reports, 2015, 5, 11045.	3.3	254
2	Full-Color Plasmonic Metasurface Holograms. ACS Nano, 2016, 10, 10671-10680.	14.6	225
3	Metasurface Holograms for Holographic Imaging. Advanced Optical Materials, 2017, 5, 1700541.	7.3	149
4	3D Janus plasmonic helical nanoapertures for polarization-encrypted data storage. Light: Science and Applications, 2019, 8, 45.	16.6	140
5	Spin-controlled wavefront shaping with plasmonic chiral geometric metasurfaces. Light: Science and Applications, 2018, 7, 84.	16.6	113
6	Generating Focused 3D Perfect Vortex Beams By Plasmonic Metasurfaces. Advanced Optical Materials, 2018, 6, 1701228.	7.3	111
7	Generating and Separating Twisted Light by gradient-rotation Split-Ring Antenna Metasurfaces. Nano Letters, 2016, 16, 3101-3108.	9.1	110
8	Chiral Metamaterials of Plasmonic Slanted Nanoapertures with Symmetry Breaking. Nano Letters, 2018, 18, 520-527.	9.1	106
9	Experimental realization of epsilon-near-zero metamaterial slabs with metal-dielectric multilayers. Applied Physics Letters, 2013, 103, .	3.3	83
10	Near-infrared chiral plasmonic metasurface absorbers. Optics Express, 2018, 26, 31484.	3.4	66
11	Enhanced Quantum Dot Spontaneous Emission with Multilayer Metamaterial Nanostructures. ACS Photonics, 2017, 4, 501-508.	6.6	62
12	Atomically Thin Nonlinear Transition Metal Dichalcogenide Holograms. Nano Letters, 2019, 19, 6511-6516.	9.1	61
13	Direction-Controlled Bifunctional Metasurface Polarizers. Laser and Photonics Reviews, 2018, 12, 1800198.	8.7	60
14	Ultrasensitive detection and characterization of molecules with infrared plasmonic metamaterials. Scientific Reports, 2015, 5, 14327.	3.3	55
15	Chiral Grayscale Imaging with Plasmonic Metasurfaces of Stepped Nanoapertures. Advanced Optical Materials, 2019, 7, 1801467.	7.3	55
16	Broadband polarization conversion with anisotropic plasmonic metasurfaces. Scientific Reports, 2017, 7, 8841.	3.3	41
17	Chiral plasmonic metasurface absorbers in the mid-infrared wavelength range. Optics Letters, 2020, 45, 5372.	3.3	40
18	Nonlocal effective medium analysis in symmetric metal-dielectric multilayer metamaterials. Physical Review B, 2015, 91, .	3.2	37

#	ARTICLE	IF	CITATIONS
19	Experimental demonstration of near-infrared epsilon-near-zero multilayer metamaterial slabs. <i>Optics Express</i> , 2013, 21, 23631.	3.4	36
20	Spin-Selective Second-Harmonic Vortex Beam Generation with Inverted Plasmonic Metasurfaces. <i>Advanced Optical Materials</i> , 2018, 6, 1800646.	7.3	34
21	Broadband infrared circular dichroism in chiral metasurface absorbers. <i>Nanotechnology</i> , 2020, 31, 295203.	2.6	31
22	Structuring Light by Concentric-Ring Patterned Magnetic Metamaterial Cavities. <i>Nano Letters</i> , 2015, 15, 5363-5368.	9.1	30
23	Anisotropic Third-Harmonic Generation in Layered Germanium Selenide. <i>Laser and Photonics Reviews</i> , 2020, 14, 1900416.	8.7	28
24	Nonlocal effective medium approximation for metallic nanorod metamaterials. <i>Physical Review B</i> , 2015, 91, .	3.2	26
25	Dual-band selective circular dichroism in mid-infrared chiral metasurfaces. <i>Optics Express</i> , 2022, 30, 20063.	3.4	26
26	Nonlinear Beam Shaping with Binary Phase Modulation on Patterned WS ₂ Monolayer. <i>ACS Photonics</i> , 2020, 7, 2506-2514.	6.6	24
27	Quantum entanglement in plasmonic waveguides with near-zero mode indices. <i>Optics Letters</i> , 2013, 38, 4078.	3.3	23
28	Self-Assembly of Heterogeneously Shaped Nanoparticles into Plasmonic Metamolecules on DNA Origami. <i>Chemistry - A European Journal</i> , 2017, 23, 14177-14181.	3.3	23
29	Plasmon-phonon coupling between mid-infrared chiral metasurfaces and molecular vibrations. <i>Optics Express</i> , 2020, 28, 21192.	3.4	23
30	Generation of Nondiffracting Vector Beams with Ring-Shaped Plasmonic Metasurfaces. <i>Physical Review Applied</i> , 2019, 11, .	3.8	21
31	Orbital angular momentum transformation of optical vortex with aluminum metasurfaces. <i>Scientific Reports</i> , 2019, 9, 9133.	3.3	20
32	Generation of polarization singularities with geometric metasurfaces. <i>Scientific Reports</i> , 2019, 9, 19656.	3.3	18
33	2D layered SiP as anisotropic nonlinear optical material. <i>Scientific Reports</i> , 2021, 11, 6372.	3.3	18
34	In-plane anisotropic third-harmonic generation from germanium arsenide thin flakes. <i>Scientific Reports</i> , 2020, 10, 14282.	3.3	17
35	Spatial variation of vector vortex beams with plasmonic metasurfaces. <i>Scientific Reports</i> , 2019, 9, 9969.	3.3	16
36	Naturally occurring layered mineral franckeite with anisotropic Raman scattering and third-harmonic generation responses. <i>Scientific Reports</i> , 2021, 11, 8510.	3.3	16

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37	Twisting phase and intensity of light with plasmonic metasurfaces. Scientific Reports, 2018, 8, 4884.	3.3	15
38	Topological Charge Inversion of Optical Vortex with Geometric Metasurfaces. Advanced Optical Materials, 2019, 7, 1801486.	7.3	15
39	Natural van der Waals heterostructure cylindrite with highly anisotropic optical responses. Npj 2D Materials and Applications, 2021, 5, .	7.9	14
40	Van der Waals Layered Mineral Getchellite with Anisotropic Linear and Nonlinear Optical Responses. Laser and Photonics Reviews, 2021, 15, 2100182.	8.7	14
41	Spiraling Light with Magnetic Metamaterial Quarter-Wave Turbines. Scientific Reports, 2017, 7, 11824.	3.3	12
42	Second-harmonic optical vortex conversion from WS2 monolayer. Scientific Reports, 2019, 9, 8780.	3.3	12
43	Generation of three-dimensional optical cusp beams with ultrathin metasurfaces. Scientific Reports, 2018, 8, 9493.	3.3	11
44	Optical Vortex Transmutation with Geometric Metasurfaces of Rotational Symmetry Breaking. Advanced Optical Materials, 2019, 7, 1901152.	7.3	11
45	Experimental characterization of optical nonlocality in metal-dielectric multilayer metamaterials. Optics Express, 2014, 22, 22974.	3.4	10
46	Enhanced quantum dots spontaneous emission with metamaterial perfect absorbers. Applied Physics Letters, 2019, 114, 021103.	3.3	8
47	Scaling law of Purcell factor in hyperbolic metamaterial cavities with dipole excitation. Optics Letters, 2019, 44, 471.	3.3	7
48	Polarization-dependent optical responses in natural 2D layered mineral teallite. Scientific Reports, 2021, 11, 21895.	3.3	7
49	Determination of effective parameters of fishnet metamaterials with vortex based interferometry. Optics Express, 2020, 28, 20051.	3.4	6
50	Naturally Occurring 2D Heterostructure Nagyite with Anisotropic Optical Properties. Advanced Materials Interfaces, 2021, 8, 2101106.	3.7	6
51	Spontaneous emission rate enhancement with aperiodic Thue-Morse multilayer. Scientific Reports, 2019, 9, 8473.	3.3	4
52	Anisotropic optical responses of layered thallium arsenic sulfosalt gillulyite. Scientific Reports, 2021, 11, 22002.	3.3	4
53	Polarization-sensitive optical responses from natural layered hydrated sodium sulfosalt gerstleyite. Scientific Reports, 2022, 12, 4242.	3.3	3
54	Klein tunneling near the Dirac points in metal-dielectric multilayer metamaterials. Scientific Reports, 2017, 7, 9678.	3.3	2

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55	Natural 2D layered mineral cannizzarite with anisotropic optical responses. Scientific Reports, 2022, 12, .	3.3	2
56	Natural layered mercury antimony sulfosalt livingstonite with anisotropic optical properties. Optics Express, 0, , .	3.4	1
57	Anisotropic third-harmonic generation of exfoliated As ₂ S ₃ thin flakes. Optics Express, 0, , .	3.4	1