Jie Gao

List of Publications by Year in descending order

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57 papers	2,363 citations	236925 25 h-index	206112 48 g-index
57 all docs	57 docs citations	57 times ranked	2467 citing authors

#	Article	IF	Citations
1	Polarization-sensitive optical responses from natural layered hydrated sodium sulfosalt gerstleyite. Scientific Reports, 2022, 12, 4242.	3.3	3
2	Dual-band selective circular dichroism in mid-infrared chiral metasurfaces. Optics Express, 2022, 30, 20063.	3.4	26
3	Natural 2D layered mineral cannizzarite with anisotropic optical responses. Scientific Reports, 2022, 12, .	3.3	2
4	2D layered SiP as anisotropic nonlinear optical material. Scientific Reports, 2021, 11, 6372.	3.3	18
5	Naturally occurring layered mineral franckeite with anisotropic Raman scattering and third-harmonic generation responses. Scientific Reports, 2021, 11, 8510.	3.3	16
6	Natural van der Waals heterostructure cylindrite with highly anisotropic optical responses. Npj 2D Materials and Applications, 2021, 5, .	7.9	14
7	Van der Waals Layered Mineral Getchellite with Anisotropic Linear and Nonlinear Optical Responses. Laser and Photonics Reviews, 2021, 15, 2100182.	8.7	14
8	Anisotropic optical responses of layered thallium arsenic sulfosalt gillulyite. Scientific Reports, 2021, 11, 22002.	3.3	4
9	Polarization-dependent optical responses in natural 2D layered mineral teallite. Scientific Reports, 2021, 11, 21895.	3.3	7
10	Naturally Occurring 2D Heterostructure NagyÃ¡gite with Anisotropic Optical Properties. Advanced Materials Interfaces, 2021, 8, 2101106.	3.7	6
11	Nonlinear Beam Shaping with Binary Phase Modulation on Patterned WS₂ Monolayer. ACS Photonics, 2020, 7, 2506-2514.	6.6	24
12	In-plane anisotropic third-harmonic generation from germanium arsenide thin flakes. Scientific Reports, 2020, 10, 14282.	3.3	17
13	Anisotropic Thirdâ€Harmonic Generation in Layered Germanium Selenide. Laser and Photonics Reviews, 2020, 14, 1900416.	8.7	28
14	Broadband infrared circular dichroism in chiral metasurface absorbers. Nanotechnology, 2020, 31, 295203.	2.6	31
15	Plasmon-phonon coupling between mid-infrared chiral metasurfaces and molecular vibrations. Optics Express, 2020, 28, 21192.	3.4	23
16	Chiral plasmonic metasurface absorbers in the mid-infrared wavelength range. Optics Letters, 2020, 45, 5372.	3.3	40
17	Determination of effective parameters of fishnet metamaterials with vortex based interferometry. Optics Express, 2020, 28, 20051.	3.4	6
18	Atomically Thin Nonlinear Transition Metal Dichalcogenide Holograms. Nano Letters, 2019, 19, 6511-6516.	9.1	61

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19	Optical Vortex Transmutation with Geometric Metasurfaces of Rotational Symmetry Breaking. Advanced Optical Materials, 2019, 7, 1901152.	7.3	11
20	Spatial variation of vector vortex beams with plasmonic metasurfaces. Scientific Reports, 2019, 9, 9969.	3.3	16
21	Generation of Nondiffracting Vector Beams with Ring-Shaped Plasmonic Metasurfaces. Physical Review Applied, 2019, 11, .	3.8	21
22	Topological Charge Inversion of Optical Vortex with Geometric Metasurfaces. Advanced Optical Materials, 2019, 7, 1801486.	7.3	15
23	Second-harmonic optical vortex conversion from WS2 monolayer. Scientific Reports, 2019, 9, 8780.	3.3	12
24	Spontaneous emission rate enhancement with aperiodic Thue-Morse multilayer. Scientific Reports, 2019, 9, 8473.	3.3	4
25	Orbital angular momentum transformation of optical vortex with aluminum metasurfaces. Scientific Reports, 2019, 9, 9133.	3.3	20
26	3D Janus plasmonic helical nanoapertures for polarization-encrypted data storage. Light: Science and Applications, 2019, 8, 45.	16.6	140
27	Generation of polarization singularities with geometric metasurfaces. Scientific Reports, 2019, 9, 19656.	3.3	18
28	Chiral Grayscale Imaging with Plasmonic Metasurfaces of Stepped Nanoapertures. Advanced Optical Materials, 2019, 7, 1801467.	7.3	55
29	Enhanced quantum dots spontaneous emission with metamaterial perfect absorbers. Applied Physics Letters, 2019, 114, 021103.	3.3	8
30	Scaling law of Purcell factor in hyperbolic metamaterial cavities with dipole excitation. Optics Letters, 2019, 44, 471.	3.3	7
31	Generating Focused 3D Perfect Vortex Beams By Plasmonic Metasurfaces. Advanced Optical Materials, 2018, 6, 1701228.	7.3	111
32	Twisting phase and intensity of light with plasmonic metasurfaces. Scientific Reports, 2018, 8, 4884.	3.3	15
33	Chiral Metamaterials of Plasmonic Slanted Nanoapertures with Symmetry Breaking. Nano Letters, 2018, 18, 520-527.	9.1	106
34	Spin-controlled wavefront shaping with plasmonic chiral geometric metasurfaces. Light: Science and Applications, 2018, 7, 84.	16.6	113
35	Directionâ€Controlled Bifunctional Metasurface Polarizers. Laser and Photonics Reviews, 2018, 12, 1800198.	8.7	60
36	Generation of three-dimensional optical cusp beams with ultrathin metasurfaces. Scientific Reports, 2018, 8, 9493.	3.3	11

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37	Spinâ€Selective Secondâ€Harmonic Vortex Beam Generation with Babinetâ€Inverted Plasmonic Metasurfaces. Advanced Optical Materials, 2018, 6, 1800646.	7.3	34
38	Near-infrared chiral plasmonic metasurface absorbers. Optics Express, 2018, 26, 31484.	3.4	66
39	Enhanced Quantum Dot Spontaneous Emission with Multilayer Metamaterial Nanostructures. ACS Photonics, 2017, 4, 501-508.	6.6	62
40	Metasurface Holograms for Holographic Imaging. Advanced Optical Materials, 2017, 5, 1700541.	7.3	149
41	Selfâ€Assembly of Heterogeneously Shaped Nanoparticles into Plasmonic Metamolecules on DNA Origami. Chemistry - A European Journal, 2017, 23, 14177-14181.	3.3	23
42	Broadband polarization conversion with anisotropic plasmonic metasurfaces. Scientific Reports, 2017, 7, 8841.	3.3	41
43	Klein tunneling near the Dirac points in metal-dielectric multilayer metamaterials. Scientific Reports, 2017, 7, 9678.	3.3	2
44	Spiraling Light with Magnetic Metamaterial Quarter-Wave Turbines. Scientific Reports, 2017, 7, 11824.	3.3	12
45	Generating and Separating Twisted Light by gradientâ€“rotation Split-Ring Antenna Metasurfaces. Nano Letters, 2016, 16, 3101-3108.	9.1	110
46	Full-Color Plasmonic Metasurface Holograms. ACS Nano, 2016, 10, 10671-10680.	14.6	225
47	Nonlocal effective medium approximation for metallic nanorod metamaterials. Physical Review B, 2015, 91, .	3.2	26
48	Nonlocal effective medium analysis in symmetric metal-dielectric multilayer metamaterials. Physical Review B, 2015, 91, .	3.2	37
49	Ultrasensitive detection and characterization of molecules with infrared plasmonic metamaterials. Scientific Reports, 2015, 5, 14327.	3.3	55
50	Structuring Light by Concentric-Ring Patterned Magnetic Metamaterial Cavities. Nano Letters, 2015, 15, 5363-5368.	9.1	30
51	Structural color printing based on plasmonic metasurfaces of perfect light absorption. Scientific Reports, 2015, 5, 11045.	3.3	254
52	Experimental characterization of optical nonlocality in metal-dielectric multilayer metamaterials. Optics Express, 2014, 22, 22974.	3.4	10
53	Experimental realization of epsilon-near-zero metamaterial slabs with metal-dielectric multilayers. Applied Physics Letters, 2013, 103, .	3.3	83
54	Experimental demonstration of near-infrared epsilon-near-zero multilayer metamaterial slabs. Optics Express, 2013, 21, 23631.	3.4	36

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55	Quantum entanglement in plasmonic waveguides with near-zero mode indices. Optics Letters, 2013, 38, 4078.	3.3	23
56	Natural layered mercury antimony sulfosalt livingstonite with anisotropic optical properties. Optics Express, 0, , .	3.4	1
57	Anisotropic third-harmonic generation of exfoliated As2S3 thin flakes. Optics Express, 0, , .	3.4	1