

Wei Liu

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

2,458
citations

236612

25
h-index

197535

49
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61
all docs

61
docs citations

61
times ranked

2130
citing authors

#	ARTICLE	IF	CITATIONS
1	Arbitrary polarization-independent backscattering or reflection by rotationally symmetric reciprocal structures. <i>Physical Review B</i> , 2021, 103, .	1.1	1
2	Polarization singularities in light scattering by small particles. <i>Physical Review A</i> , 2021, 103, .	1.0	8
3	Topological polarization singularities in metaphotonics. <i>Nanophotonics</i> , 2021, 10, 1469-1486.	2.9	42
4	Nonlinear Lithium Niobate Metasurfaces for Second Harmonic Generation. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000521.	4.4	57
5	Deep-learning-enabled inverse engineering of multi-wavelength invisibility-to-superscattering switching with phase-change materials. <i>Optics Express</i> , 2021, 29, 10527.	1.7	18
6	Evolution and global charge conservation for polarization singularities emerging from non-Hermitian degeneracies. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	17
7	Symmetry Protected Invariant Scattering Properties for Incident Plane Waves of Arbitrary Polarizations. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000496.	4.4	2
8	Extremize Optical Chiralities through Polarization Singularities. <i>Physical Review Letters</i> , 2021, 126, 253901.	2.9	33
9	Second Harmonic Generation Enhancement From Plasmonic Toroidal Resonance in Core-Shell Nanodisk. <i>IEEE Photonics Journal</i> , 2021, 13, 1-9.	1.0	8
10	Polarization Singularities of Photonic Quasicrystals in Momentum Space. <i>Physical Review Letters</i> , 2021, 127, 043901.	2.9	22
11	Scattering invariance for arbitrary polarizations protected by joint spatial-duality symmetries. <i>Physical Review B</i> , 2020, 102, .	1.1	5
12	Scattering and absorption invariance of nonmagnetic particles under duality transformations. <i>Physical Review A</i> , 2020, 102, .	1.0	3
13	Electromagnetic Duality Protected Scattering Properties of Nonmagnetic Particles. <i>ACS Photonics</i> , 2020, 7, 1830-1838.	3.2	8
14	Line Singularities and Hopf Indices of Electromagnetic Multipoles. <i>Laser and Photonics Reviews</i> , 2020, 14, 2000049.	4.4	19
15	Global Mie Scattering: Polarization Morphologies and the Underlying Topological Invariant. <i>ACS Omega</i> , 2020, 5, 14157-14163.	1.6	10
16	Scattering activities bounded by reciprocity and parity conservation. <i>Physical Review Research</i> , 2020, 2, .	1.3	13
17	On the constraints of electromagnetic multipoles for symmetric scatterers: eigenmode analysis. <i>Optics Express</i> , 2020, 28, 3073.	1.7	13
18	Optical telescope with Cassegrain metasurfaces. <i>Nanophotonics</i> , 2020, 9, 3263-3269.	2.9	10

#	ARTICLE	IF	CITATIONS
19	Multipolar Conversion Induced Subwavelength High-Q Kerker Supermodes with Unidirectional Radiations. <i>Laser and Photonics Reviews</i> , 2019, 13, 1900067.	4.4	39
20	Optical Metasurfaces for Designing Planar Cassegrain-Schwarzschild Objectives. <i>Physical Review Applied</i> , 2019, 11, .	1.5	11
21	Singularities and Poincaré Indices of Electromagnetic Multipoles. <i>Physical Review Letters</i> , 2019, 122, 153907.	2.9	86
22	Multipolar Conversion Induced Subwavelength High-Q Kerker Supermodes. , 2019, , .		1
23	Cascaded rotational Doppler effect. <i>Optics Letters</i> , 2019, 44, 2346.	1.7	13
24	Beam Steering with Dielectric Metalattices. <i>ACS Photonics</i> , 2018, 5, 1733-1741.	3.2	66
25	Generalized Kerker effects in nanophotonics and meta-optics [Invited]. <i>Optics Express</i> , 2018, 26, 13085.	1.7	298
26	Multiple unidirectional forward scattering of hybrid metal-dielectric nanoantenna in the near-infrared region. <i>Optical Materials Express</i> , 2018, 8, 3410.	1.6	1
27	Multipolar interference effects in nanophotonics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160317.	1.6	81
28	Mutual injection coupling and phase locking of two multiwavelength fiber lasers. <i>Optical Engineering</i> , 2017, 56, 026121.	0.5	3
29	Scattering Invisibility With Free-space Field Enhancement of All-dielectric Nanoparticles. <i>Laser and Photonics Reviews</i> , 2017, 11, 1700103.	4.4	18
30	Superscattering pattern shaping for radially anisotropic nanowires. <i>Physical Review A</i> , 2017, 96, .	1.0	33
31	Generalized Magnetic Mirrors. <i>Physical Review Letters</i> , 2017, 119, 123902.	2.9	79
32	Unidirectional superscattering by multilayered cavities of effective radial anisotropy. <i>Scientific Reports</i> , 2016, 6, 34775.	1.6	19
33	Ultradirectional scattering of radially anisotropic nanoparticles. , 2016, , .		0
34	Q-factor enhancement in all-dielectric anisotropic nanoresonators. <i>Physical Review B</i> , 2016, 94, .	1.1	15
35	Q-factor and absorption enhancement for plasmonic anisotropic nanoparticles. <i>Optics Letters</i> , 2016, 41, 3563.	1.7	6
36	Geometric interpretations for resonances of plasmonic nanoparticles. <i>Scientific Reports</i> , 2015, 5, 12148.	1.6	25

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37	Toroidal dipole-induced transparency in core-shell nanoparticles. <i>Laser and Photonics Reviews</i> , 2015, 9, 564-570.	4.4	86
38	Elusive Pure Anapole Excitation in Homogenous Spherical Nanoparticles with Radial Anisotropy. <i>Journal of Nanomaterials</i> , 2015, 2015, 1-7.	1.5	11
39	Adiabatic nanofocusing of the fundamental modes in plasmonic parabolic potentials. <i>Optics Communications</i> , 2015, 346, 88-92.	1.0	2
40	Towards photodetection with high efficiency and tunable spectral selectivity: graphene plasmonics for light trapping and absorption engineering. <i>Nanoscale</i> , 2015, 7, 13530-13536.	2.8	127
41	Efficient excitation and tuning of toroidal dipoles within individual homogenous nanoparticles. <i>Optics Express</i> , 2015, 23, 24738.	1.7	32
42	Ultra-directional super-scattering of homogenous spherical particles with radial anisotropy. <i>Optics Express</i> , 2015, 23, 14734.	1.7	49
43	Invisible nanowires with interfering electric and toroidal dipoles. <i>Optics Letters</i> , 2015, 40, 2293.	1.7	105
44	Ultra-directional forward scattering by individual core-shell nanoparticles. <i>Optics Express</i> , 2014, 22, 16178.	1.7	147
45	Strong field enhancement and light-matter interactions with all-dielectric metamaterials based on split bar resonators. <i>Optics Express</i> , 2014, 22, 30889.	1.7	79
46	Visible supercontinuum generation through hollow beams in a two-mode photonic crystal fiber. <i>Applied Physics Express</i> , 2014, 7, 062502.	1.1	4
47	Electromagnetically induced transparency-like optical responses in all-dielectric metamaterials. <i>Journal of Optics (United Kingdom)</i> , 2014, 16, 125102.	1.0	33
48	Control of light scattering by nanoparticles with optically-induced magnetic responses. <i>Chinese Physics B</i> , 2014, 23, 047806.	0.7	43
49	Optically isotropic responses induced by discrete rotational symmetry of nanoparticle clusters. <i>Nanoscale</i> , 2013, 5, 6395.	2.8	62
50	Scattering of core-shell nanowires with the interference of electric and magnetic resonances. <i>Optics Letters</i> , 2013, 38, 2621.	1.7	75
51	Magnetic Light: Optical Magnetism of Dielectric Nanoparticles. <i>Optics and Photonics News</i> , 2012, 23, 35.	0.4	15
52	Polarization-independent Fano resonances in arrays of core-shell nanoparticles. <i>Physical Review B</i> , 2012, 86, .	1.1	47
53	Broadband Unidirectional Scattering by Magneto-Electric Core-shell Nanoparticles. <i>ACS Nano</i> , 2012, 6, 5489-5497.	7.3	277
54	Plasmonic analogue of quantum paddle balls. , 2011, , .		0

#	ARTICLE	IF	CITATIONS
55	Plasmonic Airy beam manipulation in linear optical potentials. Optics Letters, 2011, 36, 1164.	1.7	130
56	Airy Plasmons: Bending Light on a Chip. Optics and Photonics News, 2011, 22, 35.	0.4	1
57	Polychromatic nanofocusing of surface plasmon polaritons. Physical Review B, 2011, 83, .	1.1	23
58	Bouncing plasmonic waves in half-parabolic potentials. Physical Review A, 2011, 84, .	1.0	2
59	Mode transformation in waveguiding plasmonic structures. Photonics and Nanostructures - Fundamentals and Applications, 2011, 9, 207-212.	1.0	14
60	Manipulation of Airy plasmon beams by linear optical potentials. , 2011, , .		5
61	Complete spectral gap in coupled dielectric waveguides embedded into metal. Applied Physics Letters, 2010, 97, 021106.	1.5	6