

Jiangfeng Zhou

List of Publications by Year in descending order

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59
papers

8,466
citations

136885

32
h-index

168321

53
g-index

59
all docs

59
docs citations

59
times ranked

5186
citing authors

#	ARTICLE	IF	CITATIONS
1	High efficiency ambient RF energy harvesting by a metamaterial perfect absorber. <i>Optical Materials Express</i> , 2022, 12, 1242.	1.6	9
2	Magneto-optical nonreciprocity without chirality: Archimedean spirals on InSb. <i>Optics Express</i> , 2022, 30, 17193.	1.7	0
3	Nonreciprocal Fabry-Perot effect and performance enhancement in a magneto-optical InSb-based Faraday terahertz isolator. <i>Optics Express</i> , 2020, 28, 38280.	1.7	15
4	High-Efficiency and Wide-Angle Versatile Polarization Controller Based on Metagratings. <i>Materials</i> , 2019, 12, 623.	1.3	3
5	Strong Responsivity Enhancement of Quantum Dot-Infrared Photodetectors Using Plasmonic Structures. <i>Advanced Theory and Simulations</i> , 2019, 2, 1800143.	1.3	5
6	Robust metamaterial-based antireflection coating for surface plasmon polariton resonance. <i>Optical Materials Express</i> , 2019, 9, 1290.	1.6	2
7	Fabry-Perot cavity resonance enabling highly polarization-sensitive double-layer gold grating. <i>Scientific Reports</i> , 2018, 8, 14787.	1.6	19
8	Broadband and high-efficiency transmissive-type nondispersive polarization conversion meta-device. <i>Optical Materials Express</i> , 2018, 8, 2430.	1.6	12
9	A One-Way Mirror: High-Performance Terahertz Optical Isolator Based on Magnetoplasmonics. <i>Advanced Optical Materials</i> , 2018, 6, 1800572.	3.6	44
10	Angle-Dependent Spoof Surface Plasmons in Metallic Hole Arrays at Terahertz Frequencies. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017, 23, 1-6.	1.9	8
11	Broadband angle- and permittivity-insensitive nondispersive optical activity based on planar chiral metamaterials. <i>Scientific Reports</i> , 2017, 7, 10730.	1.6	11
12	Giant THz surface plasmon polariton induced by high-index dielectric metasurface. <i>Scientific Reports</i> , 2017, 7, 9876.	1.6	8
13	Metamaterial Perfect Absorber Analyzed by a Meta-cavity Model Consisting of Multilayer Metasurfaces. <i>Scientific Reports</i> , 2017, 7, 10569.	1.6	59
14	A Low-loss Metasurface Antireflection Coating on Dispersive Surface Plasmon Structure. <i>Scientific Reports</i> , 2016, 6, 36190.	1.6	25
15	Planar composite chiral metamaterial with broadband dispersionless polarization rotation and high transmission. <i>Journal of Applied Physics</i> , 2016, 120, .	1.1	9
16	Thin InSb layers with metallic gratings: a novel platform for spectrally-selective THz plasmonic sensing. <i>Optics Express</i> , 2016, 24, 19448.	1.7	23
17	A THz plasmonics perfect absorber and Fabry-Perot cavity mechanism (Conference Presentation). , 2016, , .		2
18	A THz plasmonic perfect absorber and Fabry-Perot cavity mechanism. , 2016, , .		0

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19	A multilayer effective medium model for plasmonic perfect absorber. , 2016, , .		0
20	A Largeâ€œArea, Mushroomâ€œCapped Plasmonic Perfect Absorber: Refractive Index Sensing and Fabryâ€œPerot Cavity Mechanism. Advanced Optical Materials, 2015, 3, 1779-1786.	3.6	79
21	Enhanced transmission due to antireflection coating layer at surface plasmon resonance wavelengths. Optics Express, 2014, 22, 30161.	1.7	19
22	nAnalysis of subwavelength metal hole array structure for the enhancement of back-illuminated quantum dot infrared photodetectors. Optics Express, 2013, 21, 4709.	1.7	20
23	Terahertz chiral metamaterials with giant and dynamically tunable optical activity. Physical Review B, 2012, 86, .	1.1	221
24	Reversible modulation and ultrafast dynamics of terahertz resonances in strongly photoexcited metamaterials. Physical Review B, 2012, 86, .	1.1	26
25	Photoinduced handedness switching in terahertz chiral metamolecules. Nature Communications, 2012, 3, 942.	5.8	407
26	Resonance tuning behavior in closely spaced inhomogeneous bilayer metamaterials. Applied Physics Letters, 2011, 98, .	1.5	38
27	Conjugated gammadion chiral metamaterial with uniaxial optical activity and negative refractive index. Physical Review B, 2011, 83, .	1.1	201
28	Tailored resonator coupling for modifying the terahertz metamaterial response. Optics Express, 2011, 19, 10679.	1.7	61
29	Chiral THz Metamaterial with Tunable Optical Activity. , 2010, , .		1
30	Coupling effect between two adjacent chiral structure layers. Optics Express, 2010, 18, 5375.	1.7	53
31	Dirac dynamics in one-dimensional graphene-like plasmonic crystals: pseudo-spin, chirality, and diffraction anomaly. Optics Express, 2010, 18, 25329.	1.7	14
32	Antireflection Coating Using Metamaterials and Identification of Its Mechanism. Physical Review Letters, 2010, 105, 073901.	2.9	318
33	Zhao<i>etÂAal.</i>Reply:. Physical Review Letters, 2010, 105, .	2.9	6
34	Microstructure effects for Casimir forces in chiral metamaterials. Physical Review B, 2010, 82, .	1.1	29
35	Bi-layer cross chiral structure with strong optical activity and negative refractive index. Optics Express, 2009, 17, 14172.	1.7	92
36	Negative refractive index due to chirality. Physical Review B, 2009, 79, .	1.1	359

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37	Metamaterial with negative index due to chirality. <i>Physical Review B</i> , 2009, 79, .	1.1	683
38	Chiral metamaterials: simulations and experiments. <i>Journal of Optics</i> , 2009, 11, 114003.	1.5	273
39	Negative refractive index response of weakly and strongly coupled optical metamaterials. <i>Physical Review B</i> , 2009, 80, .	1.1	89
40	Repulsive Casimir Force in Chiral Metamaterials. <i>Physical Review Letters</i> , 2009, 103, 103602.	2.9	196
41	Nonplanar chiral metamaterials with negative index. <i>Applied Physics Letters</i> , 2009, 94, .	1.5	134
42	Size dependence and convergence of the retrieval parameters of metamaterials. <i>Photonics and Nanostructures - Fundamentals and Applications</i> , 2008, 6, 96-101.	1.0	44
43	An efficient way to reduce losses of left-handed metamaterials. <i>Optics Express</i> , 2008, 16, 11147.	1.7	99
44	Nonlinear properties of split-ring resonators. <i>Optics Express</i> , 2008, 16, 16058.	1.7	115
45	The science of negative index materials. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 304217.	0.7	58
46	Magnetic and electric excitations in split ring resonators. <i>Optics Express</i> , 2007, 15, 17881.	1.7	121
47	Electromagnetic behaviour of left-handed materials. <i>Physica B: Condensed Matter</i> , 2007, 394, 148-154.	1.3	8
48	Magnetic response of split ring resonators at terahertz frequencies. <i>Physica Status Solidi (B): Basic Research</i> , 2007, 244, 1181-1187.	0.7	35
49	Experimental demonstration of negative index of refraction. <i>Applied Physics Letters</i> , 2006, 88, 221103.	1.5	167
50	Photonic Metamaterials: Magnetism at Optical Frequencies. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2006, 12, 1097-1105.	1.9	180
51	Negative index materials using simple short wire pairs. <i>Physical Review B</i> , 2006, 73, .	1.1	372
52	Unifying approach to left-handed material design. <i>Optics Letters</i> , 2006, 31, 3620.	1.7	376
53	Negative Index Materials in GHz and THz Frequencies. , 2006, , .		0
54	Magnetic Metamaterials at Telecommunication and Visible Frequencies. <i>Physical Review Letters</i> , 2005, 95, 203901.	2.9	707

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55	Focused-Ion-Beam Nanofabrication of Near-Infrared Magnetic Metamaterials. <i>Advanced Materials</i> , 2005, 17, 2547-2549.	11.1	134
56	Cut-wire pairs and plate pairs as magnetic atoms for optical metamaterials. <i>Optics Letters</i> , 2005, 30, 3198.	1.7	482
57	Saturation of the Magnetic Response of Split-Ring Resonators at Optical Frequencies. <i>Physical Review Letters</i> , 2005, 95, 223902.	2.9	559
58	Magnetic Response of Metamaterials at 100 Terahertz. <i>Science</i> , 2004, 306, 1351-1353.	6.0	1,432
59	Large-scale synthesis of single-phase, high-quality GaN nanocrystallites. <i>Applied Physics A: Materials Science and Processing</i> , 2004, 78, 753-755.	1.1	4