Xingjie Ni

List of Publications by Year in descending order

59 papers	7,274 citations	304602 22 h-index	414303 32 g-index
61 all docs	61 docs citations	61 times ranked	7446 citing authors

#	Article	IF	Citations
1	Metasurface-Dressed Two-Dimensional on-Chip Waveguide for Free-Space Light Field Manipulation. ACS Photonics, 2022, 9, 398-404.	3.2	34
2	Fabrication-Friendly Random Meta-Atom Generation for Phase-Shifting Metasurfaces. IEEE Photonics Journal, 2022, 14, 1-4.	1.0	3
3	Single-cavity bi-color laser enabled by optical anti-parity-time symmetry. Photonics Research, 2021, 9, 1280.	3.4	4
4	On-chip optical levitation with a metalens in vacuum. Optica, 2021, 8, 1359.	4.8	29
5	Optical meta-waveguides for integrated photonics and beyond. Light: Science and Applications, 2021, 10, 235.	7.7	196
6	Molding free-space light with guided waveâ€“driven metasurfaces. Science Advances, 2020, 6, eabb4142.	4.7	66
7	Nonlinear Chiral Meta-Mirrors: Enabling Technology for Ultrafast Switching of Light Polarization. Nano Letters, 2020, 20, 2047-2055.	4.5	56
8	On-chip Integrated Spectrometers based on Metasurfaces on Waveguides. , 2020, , .		1
9	Guided-Wave-Driven Photonic Integrated Metasurface Holograms. , 2020, , .		1
10	A Matrix Pencil Method to Realize Random and Sparse Metalens. , 2019, , .		0
11	Nonreciprocal metasurface with spaceâ€“time phase modulation. Light: Science and Applications, 2019, 8, 123.	7.7	146
12	Logic Obfuscation using Metasurface Holography. , 2019, , .		0
13	Electrically tunable dynamic phase modulation enhanced second harmonic generation of dielectric metasurfaces. , 2019, , .		0
14	Optical Metasurfaces: Progress and Applications. Annual Review of Materials Research, 2018, 48, 279-302.	4.3	111
15	Design of random and sparse metalens with matrix pencil method. Optics Express, 2018, 26, 24702.	1.7	16
16	Metasurface invisibility skin cloak. , 2016, , .		0
17	Chapter 8: Broadband Optical Metasurfaces and Metamaterials. , 2016, , 321-370.		0
18	Optical modulation of aqueous metamaterial properties at large scale. Optics Express, 2015, 23, 28736.	1.7	4

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19	Experimental Demonstration of In-Plane Negative-Angle Refraction with an Array of Silicon Nanoposts. Nano Letters, 2015, 15, 2055-2060.	4.5	35
20	Metasurface-Enabled Remote Quantum Interference. Physical Review Letters, 2015, 115, 025501.	2.9	116
21	Monolayer excitonic laser. Nature Photonics, 2015, 9, 733-737.	15.6	492
22	Three-Dimensional Metasurface Carpet Cloak. , 2015, , .		3
23	Metamaterials Assembled by Light. , 2015, , .		0
24	An ultrathin invisibility skin cloak for visible light. Science, 2015, 349, 1310-1314.	6.0	924
25	Photon Spin Induced Collective Electron Motion on a Metasurface. , 2015, , .		3
26	Ultrathin Invisibility Skin Cloak. , 2015, , .		0
27	Fast Eigensolver for Plasmonic Metasurfaces. Optical Materials Express, 2014, 4, 288.	1.6	3
28	Electrodynamical Light Trapping Using Whispering-Gallery Resonances in Hyperbolic Cavities. Physical Review X, 2014, 4, .	2.8	19
29	Feedback-driven self-assembly of symmetry-breaking optical metamaterials in solution. Nature Nanotechnology, 2014, 9, 1002-1006.	15.6	79
30	Electrical Detection of Photonic Spin Hall Effect on Metasurfaces. , 2014, , .		0
31	Metasurface holograms for visible light. Nature Communications, 2013, 4, .	5.8	1,167
32	Experimental validation of a new bianisotropic parameter retrieval technique using plasmonic metasurfaces made of V-shape antennas. , 2013, , .		4
33	Planar Meta-Optics. , 2013, , .		0
34	Ultra-thin, planar, Babinet-inverted plasmonic metalenses. Light: Science and Applications, 2013, 2, e72-e72.	7.7	576
35	Titanium nitride as a plasmonic material for visible and near-infrared wavelengths [erratum]. Optical Materials Express, 2013, 3, 1658.	1.6	10
36	Plasmonic Metasurface Based Ultra-thin Phase Holograms and Planar Micro-lenses. , 2013, , .		1

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37	Titanium nitride as a plasmonic material for visible and near-infrared wavelengths. Optical Materials Express, 2012, 2, 478.	1.6	567
38	Electrically Tunable Plasmonic Resonances with Graphene. , 2012, , .		4
39	Pulse shaping using optical metamaterials with naturally anisotropic structural elements. , 2012, , .		0
40	Electrically Tunable Damping of Plasmonic Resonances with Graphene. Nano Letters, 2012, 12, 5202-5206.	4.5	301
41	Metal Nitrides for Plasmonic Applications. , 2012, , .		2
42	Broadband Light Bending with Plasmonic Nanoantennas. Science, 2012, 335, 427-427.	6.0	1,291
43	Gain-Assisted Hyperbolic Metamaterials. , 2012, , .		0
44	Symmetry-Breaking Plasmonic Metasurfaces for Broadband Light Bending. , 2012, , .		0
45	Loss-compensated and active hyperbolic metamaterials. Optics Express, 2011, 19, 25242.	1.7	126
46	Bianisotropic Effective Parameters of Optical Metamagnetics and Negative-Index Materials. Proceedings of the IEEE, 2011, 99, 1691-1700.	16.4	25
47	Effect of metallic and hyperbolic metamaterial surfaces on electric and magnetic dipole emission transitions. Applied Physics B: Lasers and Optics, 2011, 103, 553-558.	1.1	63
48	Non-linear modeling of active or passive optical lamellar nanostructures. , 2011, , .		0
49	Effect of Metallic and Hyperbolic Metamaterial Surface on Electric and Magnetic Dipole Emission. , 2011, , .		0
50	The validation of the parallel three-dimensional solver for analysis of optical plasmonic bi-periodic multilayer nanostructures. Applied Physics A: Materials Science and Processing, 2010, 100, 365-374.	1.1	17
51	Loss-free and active optical negative-index metamaterials. Nature, 2010, 466, 735-738.	13.7	729
52	Validation of the Parallel Three-Dimensional Solver for Analysis of Optical Plasmonic Bi-Periodic Multilayer Nanostructures. , 2010, , .		0
53	Scalable spatial harmonic analysis solver for modeling plasmonic bi-periodic multilayer nanostructures. , 2010, , .		0
54	FE modeling of plasmonic nanoantennas with realistic 3D roughness and distortion. , 2010, , .		0

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55	Analyzing the effect of a metamaterial surface on electric and magnetic dipole emissions using Green's function and spatial harmonic analysis techniques. , 2010, , .		1
56	Experimental verification of two-dimensional spatial harmonic analysis at oblique light incidence. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 2465.	0.9	14
57	SHA Modeling of Gold Gratings for Oblique Light Incidence. , 2010, , .		0
58	A Tool for Designing Realizable Hyperlenses. , 2009, , .		1
59	Research of a novel fiber Bragg grating underwater acoustic sensor. Sensors and Actuators A: Physical, 2007, 138, 76-80.	2.0	32