

Shulin Sun

List of Publications by Year in descending order

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Version: 2024-02-01

91
papers

8,127
citations

94381

37
h-index

76872

74
g-index

91
all docs

91
docs citations

91
times ranked

4945
citing authors

#	ARTICLE	IF	CITATIONS
1	Gradient-index meta-surfaces as a bridge linking propagating waves and surface waves. <i>Nature Materials</i> , 2012, 11, 426-431.	13.3	1,617
2	High-Efficiency Broadband Anomalous Reflection by Gradient Meta-Surfaces. <i>Nano Letters</i> , 2012, 12, 6223-6229.	4.5	1,120
3	High-Efficiency Broadband Meta-Hologram with Polarization-Controlled Dual Images. <i>Nano Letters</i> , 2014, 14, 225-230.	4.5	655
4	Electromagnetic metasurfaces: physics and applications. <i>Advances in Optics and Photonics</i> , 2019, 11, 380.	12.1	324
5	Photonic Spin Hall Effect with Nearly 100% Efficiency. <i>Advanced Optical Materials</i> , 2015, 3, 1102-1108.	3.6	252
6	High-Efficiency Metasurfaces: Principles, Realizations, and Applications. <i>Advanced Optical Materials</i> , 2018, 6, 1800415.	3.6	250
7	High-efficiency surface plasmon meta-couplers: concept and microwave-regime realizations. <i>Light: Science and Applications</i> , 2016, 5, e16003-e16003.	7.7	232
8	Tailor the Functionalities of Metasurfaces Based on a Complete Phase Diagram. <i>Physical Review Letters</i> , 2015, 115, 235503.	2.9	230
9	High-Performance Bifunctional Metasurfaces in Transmission and Reflection Geometries. <i>Advanced Optical Materials</i> , 2017, 5, 1600506.	3.6	208
10	Tunable/Reconfigurable Metasurfaces: Physics and Applications. <i>Research</i> , 2019, 2019, 1849272.	2.8	204
11	Transmissive Ultrathin Pancharatnam-Berry Metasurfaces with nearly 100% Efficiency. <i>Physical Review Applied</i> , 2017, 7, .	1.5	198
12	Optical meta-waveguides for integrated photonics and beyond. <i>Light: Science and Applications</i> , 2021, 10, 235.	7.7	196
13	High-Efficiency and Full-Space Manipulation of Electromagnetic Wave Fronts with Metasurfaces. <i>Physical Review Applied</i> , 2017, 8, .	1.5	190
14	Hybridization-induced broadband terahertz wave absorption with graphene metasurfaces. <i>Optics Express</i> , 2018, 26, 11728.	1.7	188
15	A hybrid invisibility cloak based on integration of transparent metasurfaces and zero-index materials. <i>Light: Science and Applications</i> , 2018, 7, 50.	7.7	156
16	Multifunctional Microstrip Array Combining a Linear Polarizer and Focusing Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2016, 64, 3676-3682.	3.1	135
17	Tunable microwave metasurfaces for high-performance operations: dispersion compensation and dynamical switch. <i>Scientific Reports</i> , 2016, 6, 38255.	1.6	113
18	Deterministic Approach to Achieve Broadband Polarization-Independent Diffusive Scatterings Based on Metasurfaces. <i>ACS Photonics</i> , 2018, 5, 1691-1702.	3.2	113

#	ARTICLE	IF	CITATIONS
19	Dynamical control on helicity of electromagnetic waves by tunable metasurfaces. Scientific Reports, 2016, 6, 27503.	1.6	112
20	Efficient manipulations of circularly polarized terahertz waves with transmissive metasurfaces. Light: Science and Applications, 2019, 8, 16.	7.7	107
21	Optical magnetic response in three-dimensional metamaterial of upright plasmonic meta-molecules. Optics Express, 2011, 19, 12837.	1.7	95
22	Controlling angular dispersions in optical metasurfaces. Light: Science and Applications, 2020, 9, 76.	7.7	95
23	Large-scale, low-cost, broadband and tunable perfect optical absorber based on phase-change material. Nanoscale, 2020, 12, 5374-5379.	2.8	92
24	Rapid and sensitive detection of sodium saccharin in soft drinks by silver nanorod array SERS substrates. Sensors and Actuators B: Chemical, 2017, 251, 272-279.	4.0	78
25	High-efficiency chirality-modulated spoof surface plasmon meta-coupler. Scientific Reports, 2017, 7, 1354.	1.6	77
26	Efficient generation of complex vectorial optical fields with metasurfaces. Light: Science and Applications, 2021, 10, 67.	7.7	75
27	Excite Spoof Surface Plasmons with Tailored Wavefronts Using High-Efficiency Terahertz Metasurfaces. Advanced Science, 2020, 7, 2000982.	5.6	67
28	Fabrication of three dimensional split ring resonators by stress-driven assembly method. Optics Express, 2012, 20, 9415.	1.7	54
29	Aberration-free and functionality-switchable meta-lenses based on tunable metasurfaces. Applied Physics Letters, 2016, 109, .	1.5	54
30	Fabrication of multilayer metamaterials by femtosecond laser-induced forward-transfer technique. Laser and Photonics Reviews, 2012, 6, 702-707.	4.4	52
31	Dispersion relation, propagation length and mode conversion of surface plasmon polaritons in silver double-nanowire systems. Optics Express, 2013, 21, 14591.	1.7	51
32	High-efficiency generation of Bessel beams with transmissive metasurfaces. Applied Physics Letters, 2018, 112, .	1.5	48
33	Ultra-wide band reflective metamaterial wave plates for terahertz waves. Europhysics Letters, 2017, 117, 37007.	0.7	44
34	Angular Dispersions in Terahertz Metasurfaces: Physics and Applications. Physical Review Applied, 2018, 9, .	1.5	43
35	Multifunctional Metasurfaces Based on the "Merging" Concept and Anisotropic Single-Structure Meta-Atoms. Applied Sciences (Switzerland), 2018, 8, 555.	1.3	39
36	Helicity-delinked manipulations on surface waves and propagating waves by metasurfaces. Nanophotonics, 2020, 9, 3473-3481.	2.9	39

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37	A theoretical study on the conversion efficiencies of gradient meta-surfaces. Europhysics Letters, 2013, 101, 54002.	0.7	37
38	Two-dimensional complete photonic gaps from layered periodic structures containing anisotropic left-handed metamaterials. Physical Review E, 2007, 75, 066602.	0.8	27
39	Flat optical transparent window: mechanism and realization based on metasurfaces. Journal Physics D: Applied Physics, 2018, 51, 074001.	1.3	26
40	Mode-expansion theory for inhomogeneous meta-surfaces. Optics Express, 2013, 21, 27219.	1.7	25
41	Black silicon Schottky photodetector in sub-bandgap near-infrared regime. Optics Express, 2019, 27, 3161.	1.7	24
42	Effective-medium theory for one-dimensional gratings. Physical Review B, 2015, 91, .	1.1	23
43	High-efficiency metadevices for bifunctional generations of vectorial optical fields. Nanophotonics, 2020, 10, 685-695.	2.9	23
44	Coherent perfect nanoabsorbers based on negative refraction. Optics Express, 2012, 20, 13071.	1.7	22
45	Fabrication of three-dimensional plasmonic cavity by femtosecond laser-induced forward transfer. Optics Express, 2013, 21, 618.	1.7	22
46	Geometry Dependent Evolution of the Resonant Mode in ZnO Elongated Hexagonal Microcavity. Scientific Reports, 2016, 6, 19273.	1.6	19
47	Surface Energy-Driven Growth of ZnO Hexagonal Microtube Optical Resonators. Advanced Optical Materials, 2016, 4, 126-134.	3.6	19
48	Highly Efficient Wave-Front Reshaping of Surface Waves with Dielectric Metawalls. Physical Review Applied, 2018, 9, .	1.5	18
49	Effective-medium properties of metamaterials: A quasimode theory. Physical Review E, 2009, 79, 066604.	0.8	16
50	High-efficiency generation of far-field spin-polarized wavefronts via designer surface wave metasurfaces. Nanophotonics, 2022, 11, 2025-2036.	2.9	16
51	Highly modified polylactide transparent blends with better heat resistance, melt strength, toughness and stiffness balance due to the compatibilization and chain extender effects of methacrylate-co-glycidyl methacrylate copolymer. Journal of Applied Polymer Science, 2021, 138, 50124.	1.3	14
52	On-chip trans-dimensional plasmonic router. Nanophotonics, 2020, 9, 3357-3365.	2.9	14
53	Single-crystalline polyhedral In ₂ O ₃ vertical Fabry-Pérot resonators. Applied Physics Letters, 2011, 98, 011913.	1.5	13
54	A synergetic application of surface plasmon and field effect to improve Si solar cell performance. Nanotechnology, 2016, 27, 145203.	1.3	12

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55	Scatterings from surface plasmons to propagating waves at plasmonic discontinuities. <i>Science Bulletin</i> , 2019, 64, 802-807.	4.3	12
56	All-dielectric orthogonal doublet cylindrical metalens in long-wave infrared regions. <i>Optics Express</i> , 2021, 29, 3524.	1.7	12
57	Thermodynamic-effect-induced growth, optical modulation and UV lasing of hierarchical ZnO Fabry-Pérot resonators. <i>Journal of Materials Chemistry</i> , 2012, 22, 3069.	6.7	11
58	Optical modulation of ZnO microwire optical resonators with a parallelogram cross-section. <i>Nanoscale</i> , 2013, 5, 4123.	2.8	11
59	Optical modulation in microsized optical resonators with irregular hexagonal cross-section. <i>Journal of Materials Chemistry C</i> , 2014, 2, 8976-8982.	2.7	11
60	Manipulating electromagnetic waves with metamaterials: Concept and microwave realizations. <i>Chinese Physics B</i> , 2014, 23, 047808.	0.7	11
61	Indium oxide octahedra optical microcavities. <i>Applied Physics Letters</i> , 2010, 97, 223114.	1.5	10
62	Broadband and high-efficiency spin-polarized wave engineering with PB metasurfaces. <i>Optics Express</i> , 2020, 28, 15601.	1.7	9
63	Near-infrared left-handed metamaterials made of arrays of upright split-ring pairs. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 265103.	1.3	8
64	Dielectric meta-walls for surface plasmon focusing and Bessel beam generation. <i>Europhysics Letters</i> , 2018, 122, 67002.	0.7	8
65	A review of high-efficiency Pancharatnam-Berry metasurfaces. <i>Terahertz Science & Technology</i> , 2020, 13, 73-89.	0.5	8
66	Broadband spin-unlocked metasurfaces for bifunctional wavefront manipulations. <i>Applied Physics Letters</i> , 2022, 120, .	1.5	8
67	Metamaterial slab-based super-absorbers and perfect nanodetectors for single dipole sources. <i>Optics Express</i> , 2013, 21, 11338.	1.7	7
68	Experimental verifications on an effective model for photonic coupling. <i>Optics Letters</i> , 2015, 40, 272.	1.7	7
69	Transmission/reflection behaviors of surface plasmons at an interface between two plasmonic systems. <i>Journal of Physics Condensed Matter</i> , 2018, 30, 114002.	0.7	7
70	Surface wave resonance and chirality in a tubular cavity with metasurface design. <i>Optics Communications</i> , 2018, 417, 42-45.	1.0	3
71	Facile synthesis and optical properties of colloidal quantum dots/ZnO composite optical resonators. <i>RSC Advances</i> , 2018, 8, 1778-1783.	1.7	3
72	Spin Hall Effect: Photonic Spin Hall Effect with Nearly 100% Efficiency (<i>Advanced Optical Materials</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	8.6	2

#	ARTICLE	IF	CITATIONS
73	Scatterings and wavefront manipulations of surface plasmon polaritons. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 157804.	0.2	2
74	Metamaterials to bridge propagating waves with surface waves and control electromagnetic waves. , 2013, , .		1
75	Recent advances on metasurfaces. , 2015, , .		1
76	Multifunctional Metasurfaces: Design Principles and Device Realizations. Synthesis Lectures on Materials and Optics, 2021, 2, 1-184.	0.2	1
77	Highly efficient anomalous reflection by an optical metasurface. SPIE Newsroom, 0, , .	0.1	1
78	Metamaterials: From 3D Plasmonic Nanostructure to Reflective Metasurface. , 2014, , .		0
79	Reflective Metasurface and Plasmonic Hologram Application. , 2014, , .		0
80	Polarization controlled colorful images reconstructed by reflective meta-hologram. Proceedings of SPIE, 2014, , .	0.8	0
81	Reflective plasmonic metasurface and metahologram. , 2015, , .		0
82	Tailor the functionalities of metasurfaces based on a complete phase diagram. , 2016, , .		0
83	Photonic spin Hall effect with nearly 100% efficiency (Conference Presentation). , 2016, , .		0
84	A new concept to design high efficiency surface plasmon meta-couplers (Conference Presentation). , 2016, , .		0
85	Metamaterials to bridge propagating waves with surface waves and control electromagnetic waves. , 2012, , .		0
86	Femtosecond laser-induced forward transfer for multilayer plasmonic metamaterials. SPIE Newsroom, 0, , .	0.1	0
87	Fabrication of plasmonic cavity and indefinite metamaterial by laser-induced forward transfer. , 2014, , .		0
88	Controlling electromagnetic waves with meta-surfaces. SPIE Newsroom, 0, , .	0.1	0
89	Meta-holograms for colorful image storage. SPIE Newsroom, 0, , .	0.1	0
90	Recent advances on metasurfaces. , 2015, , .		0

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91	Control the Wave-front and Polarization of Light Simultaneously with High-efficiency Meta-surfaces. , 2019, , .		0