

Shulin Sun

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

74
papers

5,655
citations

30
h-index

75
g-index

91
ext. papers

6,999
ext. citations

6
avg. IF

5.91
L-index

#	Paper	IF	Citations
74	Gradient-index meta-surfaces as a bridge linking propagating waves and surface waves. <i>Nature Materials</i> , 2012 , 11, 426-31	27	1208
73	High-efficiency broadband anomalous reflection by gradient meta-surfaces. <i>Nano Letters</i> , 2012 , 12, 6223-25	11.5	856
72	High-efficiency broadband meta-hologram with polarization-controlled dual images. <i>Nano Letters</i> , 2014 , 14, 225-30	11.5	517
71	Photonic Spin Hall Effect with Nearly 100% Efficiency. <i>Advanced Optical Materials</i> , 2015 , 3, 1102-1108	8.1	186
70	High-efficiency surface plasmon meta-couplers: concept and microwave-regime realizations. <i>Light: Science and Applications</i> , 2016 , 5, e16003	16.7	184
69	Electromagnetic metasurfaces: physics and applications. <i>Advances in Optics and Photonics</i> , 2019 , 11, 380	16.7	174
68	Tailor the Functionalities of Metasurfaces Based on a Complete Phase Diagram. <i>Physical Review Letters</i> , 2015 , 115, 235503	7.4	173
67	High-Performance Bifunctional Metasurfaces in Transmission and Reflection Geometries. <i>Advanced Optical Materials</i> , 2017 , 5, 1600506	8.1	157
66	High-Efficiency Metasurfaces: Principles, Realizations, and Applications. <i>Advanced Optical Materials</i> , 2018 , 6, 1800415	8.1	151
65	Transmissive Ultrathin Pancharatnam-Berry Metasurfaces with nearly 100% Efficiency. <i>Physical Review Applied</i> , 2017 , 7,	4.3	133
64	High-Efficiency and Full-Space Manipulation of Electromagnetic Wave Fronts with Metasurfaces. <i>Physical Review Applied</i> , 2017 , 8,	4.3	127
63	Hybridization-induced broadband terahertz wave absorption with graphene metasurfaces. <i>Optics Express</i> , 2018 , 26, 11728-11736	3.3	123
62	Tunable/Reconfigurable Metasurfaces: Physics and Applications. <i>Research</i> , 2019 , 2019, 1849272	7.8	111
61	Multifunctional Microstrip Array Combining a Linear Polarizer and Focusing Metasurface. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 3676-3682	4.9	103
60	Dynamical control on helicity of electromagnetic waves by tunable metasurfaces. <i>Scientific Reports</i> , 2016 , 6, 27503	4.9	88
59	Tunable microwave metasurfaces for high-performance operations: dispersion compensation and dynamical switch. <i>Scientific Reports</i> , 2016 , 6, 38255	4.9	88
58	A hybrid invisibility cloak based on integration of transparent metasurfaces and zero-index materials. <i>Light: Science and Applications</i> , 2018 , 7, 50	16.7	87

57	Deterministic Approach to Achieve Broadband Polarization-Independent Diffusive Scatterings Based on Metasurfaces. <i>ACS Photonics</i> , 2018 , 5, 1691-1702	6.3	79
56	Optical magnetic response in three-dimensional metamaterial of upright plasmonic meta-molecules. <i>Optics Express</i> , 2011 , 19, 12837-42	3.3	77
55	High-efficiency chirality-modulated spoof surface plasmon meta-coupler. <i>Scientific Reports</i> , 2017 , 7, 1354.9	6.1	61
54	Efficient manipulations of circularly polarized terahertz waves with transmissive metasurfaces. <i>Light: Science and Applications</i> , 2019 , 8, 16	16.7	61
53	Rapid and sensitive detection of sodium saccharin in soft drinks by silver nanorod array SERS substrates. <i>Sensors and Actuators B: Chemical</i> , 2017 , 251, 272-279	8.5	54
52	Large-scale, low-cost, broadband and tunable perfect optical absorber based on phase-change material. <i>Nanoscale</i> , 2020 , 12, 5374-5379	7.7	53
51	Controlling angular dispersions in optical metasurfaces. <i>Light: Science and Applications</i> , 2020 , 9, 76	16.7	51
50	Fabrication of three dimensional split ring resonators by stress-driven assembly method. <i>Optics Express</i> , 2012 , 20, 9415-20	3.3	45
49	Aberration-free and functionality-switchable meta-lenses based on tunable metasurfaces. <i>Applied Physics Letters</i> , 2016 , 109, 193506	3.4	44
48	Fabrication of multilayer metamaterials by femtosecond laser-induced forward-transfer technique. <i>Laser and Photonics Reviews</i> , 2012 , 6, 702-707	8.3	40
47	Dispersion relation, propagation length and mode conversion of surface plasmon polaritons in silver double-nanowire systems. <i>Optics Express</i> , 2013 , 21, 14591-605	3.3	36
46	Optical meta-waveguides for integrated photonics and beyond. <i>Light: Science and Applications</i> , 2021 , 10, 235	16.7	32
45	Ultra-wide band reflective metamaterial wave plates for terahertz waves. <i>Europhysics Letters</i> , 2017 , 117, 37007	1.6	31
44	Multifunctional Metasurfaces Based on the Merging Concept and Anisotropic Single-Structure Meta-Atoms. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 555	2.6	30
43	A theoretical study on the conversion efficiencies of gradient meta-surfaces. <i>Europhysics Letters</i> , 2013 , 101, 54002	1.6	30
42	Efficient generation of complex vectorial optical fields with metasurfaces. <i>Light: Science and Applications</i> , 2021 , 10, 67	16.7	30
41	High-efficiency generation of Bessel beams with transmissive metasurfaces. <i>Applied Physics Letters</i> , 2018 , 112, 191901	3.4	29
40	Excite Spoof Surface Plasmons with Tailored Wavefronts Using High-Efficiency Terahertz Metasurfaces. <i>Advanced Science</i> , 2020 , 7, 2000982	13.6	29

- 39 Angular Dispersions in Terahertz Metasurfaces: Physics and Applications. *Physical Review Applied*, **2018**, 9, 4-3 29
- 38 Two-dimensional complete photonic gaps from layered periodic structures containing anisotropic left-handed metamaterials. *Physical Review E*, **2007**, 75, 066602 2-4 23
- 37 Coherent perfect nanoabsorbers based on negative refraction. *Optics Express*, **2012**, 20, 13071-81 3-3 22
- 36 Flat optical transparent window: mechanism and realization based on metasurfaces. *Journal Physics D: Applied Physics*, **2018**, 51, 074001 3 20
- 35 Effective-medium theory for one-dimensional gratings. *Physical Review B*, **2015**, 91, 3-3 20
- 34 Helicity-delinked manipulations on surface waves and propagating waves by metasurfaces. *Nanophotonics*, **2020**, 9, 3473-3481 6-3 20
- 33 Fabrication of three-dimensional plasmonic cavity by femtosecond laser-induced forward transfer. *Optics Express*, **2013**, 21, 618-25 3-3 19
- 32 Mode-expansion theory for inhomogeneous meta-surfaces. *Optics Express*, **2013**, 21, 27219-37 3-3 17
- 31 Surface-Energy-Driven Growth of ZnO Hexagonal Microtube Optical Resonators. *Advanced Optical Materials*, **2016**, 4, 126-134 8-1 16
- 30 Black silicon Schottky photodetector in sub-bandgap near-infrared regime. *Optics Express*, **2019**, 27, 31613-31681 3-3 15
- 29 Highly Efficient Wave-Front Reshaping of Surface Waves with Dielectric Metawalls. *Physical Review Applied*, **2018**, 9, 4-3 13
- 28 Geometry Dependent Evolution of the Resonant Mode in ZnO Elongated Hexagonal Microcavity. *Scientific Reports*, **2016**, 6, 19273 4-9 13
- 27 Single-crystalline polyhedral In₂O₃ vertical Fabry-Pérot resonators. *Applied Physics Letters*, **2011**, 98, 011913 3-4 12
- 26 Effective-medium properties of metamaterials: a quasimode theory. *Physical Review E*, **2009**, 79, 066604 2-4 11
- 25 High-efficiency metadevices for bifunctional generations of vectorial optical fields. *Nanophotonics*, **2020**, 10, 685-695 6-3 11
- 24 Indium oxide octahedra optical microcavities. *Applied Physics Letters*, **2010**, 97, 223114 3-4 10
- 23 A synergetic application of surface plasmon and field effect to improve Si solar cell performance. *Nanotechnology*, **2016**, 27, 145203 3-4 10
- 22 Thermodynamic-effect-induced growth, optical modulation and UV lasing of hierarchical ZnO Fabry-Pérot resonators. *Journal of Materials Chemistry*, **2012**, 22, 3069 9

21	On-chip trans-dimensional plasmonic router. <i>Nanophotonics</i> , 2020 , 9, 3357-3365	6.3	9
20	Scatterings from surface plasmons to propagating waves at plasmonic discontinuities. <i>Science Bulletin</i> , 2019 , 64, 802-807	10.6	8
19	Manipulating electromagnetic waves with metamaterials: Concept and microwave realizations. <i>Chinese Physics B</i> , 2014 , 23, 047808	1.2	8
18	Optical modulation of ZnO microwire optical resonators with a parallelogram cross-section. <i>Nanoscale</i> , 2013 , 5, 4123-8	7.7	8
17	Experimental verifications on an effective model for photonic coupling. <i>Optics Letters</i> , 2015 , 40, 272-5	3	7
16	Metamaterial slab-based super-absorbers and perfect nanodetectors for single dipole sources. <i>Optics Express</i> , 2013 , 21, 11338-48	3.3	7
15	Near-infrared left-handed metamaterials made of arrays of upright split-ring pairs. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 265103	3	6
14	Transmission/reflection behaviors of surface plasmons at an interface between two plasmonic systems. <i>Journal of Physics Condensed Matter</i> , 2018 , 30, 114002	1.8	5
13	Dielectric meta-walls for surface plasmon focusing and Bessel beam generation. <i>Europhysics Letters</i> , 2018 , 122, 67002	1.6	5
12	Optical modulation in microsized optical resonators with irregular hexagonal cross-section. <i>Journal of Materials Chemistry C</i> , 2014 , 2, 8976-8982	7.1	5
11	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. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 50124	2.9	4
10	Surface wave resonance and chirality in a tubular cavity with metasurface design. <i>Optics Communications</i> , 2018 , 417, 42-45	2	3
9	Facile synthesis and optical properties of colloidal quantum dots/ZnO composite optical resonators.. <i>RSC Advances</i> , 2018 , 8, 1778-1783	3.7	2
8	Spin Hall Effect: Photonic Spin Hall Effect with Nearly 100% Efficiency (Advanced Optical Materials 8/2015). <i>Advanced Optical Materials</i> , 2015 , 3, 1126-1126	8.1	2
7	Broadband and high-efficiency spin-polarized wave engineering with PB metasurfaces. <i>Optics Express</i> , 2020 , 28, 15601-15610	3.3	2
6	High-efficiency generation of far-field spin-polarized wavefronts via designer surface wave metasurfaces. <i>Nanophotonics</i> , 2022 ,	6.3	2
5	A review of high-efficiency Pancharatnam-Berry metasurfaces. <i>Terahertz Science & Technology</i> , 2020 , 13, 73-89	0.3	1
4	All-dielectric orthogonal doublet cylindrical metalens in long-wave infrared regions. <i>Optics Express</i> , 2021 , 29, 3524-3532	3.3	1

3	Broadband spin-unlocked metasurfaces for bifunctional wavefront manipulations. <i>Applied Physics Letters</i> , 2022 , 120, 181702	3.4	1
2	Scatterings and wavefront manipulations of surface plasmon polaritons. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2020 , 69, 157804	0.6	0
1	Multifunctional Metasurfaces: Design Principles and Device Realizations 2021 , 2, 1-184		0