Shulin Sun

List of Publications by Year in Descending Order

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	High-efficiency generation of far-field spin-polarized wavefronts via designer surface wave metasurfaces. *Nanophotonics*, **2022**,	6.3	2
73	Broadband spin-unlocked metasurfaces for bifunctional wavefront manipulations. *Applied Physics Letters*, **2022**, 120, 181702	3.4	1
72	Optical meta-waveguides for integrated photonics and beyond. *Light: Science and Applications*, **2021**, 10, 235	16.7	32
71	Multifunctional Metasurfaces: Design Principles and Device Realizations **2021**, 2, 1-184		0
70	Efficient generation of complex vectorial optical fields with metasurfaces. *Light: Science and Applications*, **2021**, 10, 67	16.7	30
69	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	2.9	4
68	All-dielectric orthogonal doublet cylindrical metalens in long-wave infrared regions. *Optics Express*, **2021**, 29, 3524-3532	3.3	1
67	Controlling angular dispersions in optical metasurfaces. *Light: Science and Applications*, **2020**, 9, 76	16.7	51
66	Large-scale, low-cost, broadband and tunable perfect optical absorber based on phase-change material. *Nanoscale*, **2020**, 12, 5374-5379	7.7	53
65	Broadband and high-efficiency spin-polarized wave engineering with PB metasurfaces. *Optics Express*, **2020**, 28, 15601-15610	3.3	2
64	On-chip trans-dimensional plasmonic router. *Nanophotonics*, **2020**, 9, 3357-3365	6.3	9
63	Helicity-delinked manipulations on surface waves and propagating waves by metasurfaces. *Nanophotonics*, **2020**, 9, 3473-3481	6.3	20
62	High-efficiency metadevices for bifunctional generations of vectorial optical fields. *Nanophotonics*, **2020**, 10, 685-695	6.3	11
61	Scatterings and wavefront manipulations of surface plasmon polaritons. *Wuli Xuebao/Acta Physica Sinica*, **2020**, 69, 157804	0.6	0
60	A review of high-efficiency Pancharatnam–Berry metasurfaces. *Terahertz Science & Technology*, **2020**, 13, 73-89	0.3	1
59	Excite Spoof Surface Plasmons with Tailored Wavefronts Using High-Efficiency Terahertz Metasurfaces. *Advanced Science*, **2020**, 7, 2000982	13.6	29
58	Efficient manipulations of circularly polarized terahertz waves with transmissive metasurfaces. *Light: Science and Applications*, **2019**, 8, 16	16.7	61

57	Scatterings from surface plasmons to propagating waves at plasmonic discontinuities. *Science Bulletin*, **2019**, 64, 802-807	10.6	8
56	Electromagnetic metasurfaces: physics and applications. *Advances in Optics and Photonics*, **2019**, 11, 380	16.7	174
55	Black silicon Schottky photodetector in sub-bandgap near-infrared regime. *Optics Express*, **2019**, 27, 3161-3168	3.3	15
54	Tunable/Reconfigurable Metasurfaces: Physics and Applications. *Research*, **2019**, 2019, 1849272	7.8	111
53	Surface wave resonance and chirality in a tubular cavity with metasurface design. *Optics Communications*, **2018**, 417, 42-45	2	3
52	Highly Efficient Wave-Front Reshaping of Surface Waves with Dielectric Metawalls. *Physical Review Applied*, **2018**, 9,	4.3	13
51	Facile synthesis and optical properties of colloidal quantum dots/ZnO composite optical resonators.. *RSC Advances*, **2018**, 8, 1778-1783	3.7	2
50	Transmission/reflection behaviors of surface plasmons at an interface between two plasmonic systems. *Journal of Physics Condensed Matter*, **2018**, 30, 114002	1.8	5
49	Flat optical transparent window: mechanism and realization based on metasurfaces. *Journal Physics D: Applied Physics*, **2018**, 51, 074001	3	20
48	Deterministic Approach to Achieve Broadband Polarization-Independent Diffusive Scatterings Based on Metasurfaces. *ACS Photonics*, **2018**, 5, 1691-1702	6.3	79
47	Hybridization-induced broadband terahertz wave absorption with graphene metasurfaces. *Optics Express*, **2018**, 26, 11728-11736	3.3	123
46	High-Efficiency Metasurfaces: Principles, Realizations, and Applications. *Advanced Optical Materials*, **2018**, 6, 1800415	8.1	151
45	Dielectric meta-walls for surface plasmon focusing and Bessel beam generation. *Europhysics Letters* , **2018**, 122, 67002	1.6	5
44	Multifunctional Metasurfaces Based on the Merging Concept and Anisotropic Single-Structure Meta-Atoms. *Applied Sciences (Switzerland)*, **2018**, 8, 555	2.6	30
43	High-efficiency generation of Bessel beams with transmissive metasurfaces. *Applied Physics Letters*, **2018**, 112, 191901	3.4	29
42	A hybrid invisibility cloak based on integration of transparent metasurfaces and zero-index materials. *Light: Science and Applications*, **2018**, 7, 50	16.7	87
41	Near-infrared left-handed metamaterials made of arrays of upright split-ring pairs. *Journal Physics D: Applied Physics*, **2018**, 51, 265103	3	6
40	Angular Dispersions in Terahertz Metasurfaces: Physics and Applications. *Physical Review Applied*, **2018**, 9,	4.3	29

39	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	8.5	54
38	High-efficiency chirality-modulated spoof surface plasmon meta-coupler. *Scientific Reports*, **2017**, 7, 1354	4.9	61
37	Ultra-wide band reflective metamaterial wave plates for terahertz waves. *Europhysics Letters*, **2017**, 117, 37007	1.6	31
36	High-Efficiency and Full-Space Manipulation of Electromagnetic Wave Fronts with Metasurfaces. *Physical Review Applied*, **2017**, 8,	4.3	127
35	Transmissive Ultrathin Pancharatnam-Berry Metasurfaces with nearly 100% Efficiency. *Physical Review Applied*, **2017**, 7,	4.3	133
34	High-Performance Bifunctional Metasurfaces in Transmission and Reflection Geometries. *Advanced Optical Materials*, **2017**, 5, 1600506	8.1	157
33	High-efficiency surface plasmon meta-couplers: concept and microwave-regime realizations. *Light: Science and Applications*, **2016**, 5, e16003	16.7	184
32	A synergetic application of surface plasmon and field effect to improve Si solar cell performance. *Nanotechnology*, **2016**, 27, 145203	3.4	10
31	Geometry Dependent Evolution of the Resonant Mode in ZnO Elongated Hexagonal Microcavity. *Scientific Reports*, **2016**, 6, 19273	4.9	13
30	Dynamical control on helicity of electromagnetic waves by tunable metasurfaces. *Scientific Reports*, **2016**, 6, 27503	4.9	88
29	Tunable microwave metasurfaces for high-performance operations: dispersion compensation and dynamical switch. *Scientific Reports*, **2016**, 6, 38255	4.9	88
28	Aberration-free and functionality-switchable meta-lenses based on tunable metasurfaces. *Applied Physics Letters*, **2016**, 109, 193506	3.4	44
27	Multifunctional Microstrip Array Combining a Linear Polarizer and Focusing Metasurface. *IEEE Transactions on Antennas and Propagation*, **2016**, 64, 3676-3682	4.9	103
26	Surface-Energy-Driven Growth of ZnO Hexagonal Microtube Optical Resonators. *Advanced Optical Materials*, **2016**, 4, 126-134	8.1	16
25	Photonic Spin Hall Effect with Nearly 100% Efficiency. *Advanced Optical Materials*, **2015**, 3, 1102-1108	8.1	186
24	Spin Hall Effect: Photonic Spin Hall Effect with Nearly 100% Efficiency (Advanced Optical Materials 8/2015). *Advanced Optical Materials*, **2015**, 3, 1126-1126	8.1	2
23	Tailor the Functionalities of Metasurfaces Based on a Complete Phase Diagram. *Physical Review Letters*, **2015**, 115, 235503	7.4	173
22	Effective-medium theory for one-dimensional gratings. *Physical Review B*, **2015**, 91,	3.3	20

21	Experimental verifications on an effective model for photonic coupling. *Optics Letters*, **2015**, 40, 272-5	3	7
20	High-efficiency broadband meta-hologram with polarization-controlled dual images. *Nano Letters*, **2014**, 14, 225-30	11.5	517
19	Optical modulation in microsized optical resonators with irregular hexagonal cross-section. *Journal of Materials Chemistry C*, **2014**, 2, 8976-8982	7.1	5
18	Manipulating electromagnetic waves with metamaterials: Concept and microwave realizations. *Chinese Physics B*, **2014**, 23, 047808	1.2	8
17	Optical modulation of ZnO microwire optical resonators with a parallelogram cross-section. *Nanoscale*, **2013**, 5, 4123-8	7.7	8
16	Fabrication of three-dimensional plasmonic cavity by femtosecond laser-induced forward transfer. *Optics Express*, **2013**, 21, 618-25	3.3	19
15	Metamaterial slab-based super-absorbers and perfect nanodetectors for single dipole sources. *Optics Express*, **2013**, 21, 11338-48	3.3	7
14	Dispersion relation, propagation length and mode conversion of surface plasmon polaritons in silver double-nanowire systems. *Optics Express*, **2013**, 21, 14591-605	3.3	36
13	Mode-expansion theory for inhomogeneous meta-surfaces. *Optics Express*, **2013**, 21, 27219-37	3.3	17
12	A theoretical study on the conversion efficiencies of gradient meta-surfaces. *Europhysics Letters*, **2013**, 101, 54002	1.6	30
11	High-efficiency broadband anomalous reflection by gradient meta-surfaces. *Nano Letters*, **2012**, 12, 6223-9	12.5	856
10	Thermodynamic-effect-induced growth, optical modulation and UV lasing of hierarchical ZnO Fabry□□ot resonators. *Journal of Materials Chemistry*, **2012**, 22, 3069		9
9	Fabrication of multilayer metamaterials by femtosecond laser-induced forward-transfer technique. *Laser and Photonics Reviews*, **2012**, 6, 702-707	8.3	40
8	Gradient-index meta-surfaces as a bridge linking propagating waves and surface waves. *Nature Materials*, **2012**, 11, 426-31	27	1208
7	Fabrication of three dimensional split ring resonators by stress-driven assembly method. *Optics Express*, **2012**, 20, 9415-20	3.3	45
6	Coherent perfect nanoabsorbers based on negative refraction. *Optics Express*, **2012**, 20, 13071-81	3.3	22
5	Single-crystalline polyhedral In2O3 vertical Fabry□□ot resonators. *Applied Physics Letters*, **2011**, 98, 011913	3.4	12
4	Optical magnetic response in three-dimensional metamaterial of upright plasmonic meta-molecules. *Optics Express*, **2011**, 19, 12837-42	3.3	77

3	Indium oxide octahedra optical microcavities. *Applied Physics Letters*, **2010**, 97, 223114	3.4	10
2	Effective-medium properties of metamaterials: a quasimode theory. *Physical Review E*, **2009**, 79, 066604	2.4	11
1	Two-dimensional complete photonic gaps from layered periodic structures containing anisotropic left-handed metamaterials. *Physical Review E*, **2007**, 75, 066602	2.4	23