Shuo Liu

List of Publications by Year
in descending order

43 papers	6,090 citations	147566 31 h-index	253896 43 g-index
44 all docs	44 docs citations	44 times ranked	3319 citing authors

#	Article	IF	Citations
1	Electromagnetic reprogrammable coding-metasurface holograms. Nature Communications, 2017, 8, 197.	5.8	747
2	Space-time-coding digital metasurfaces. Nature Communications, 2018, 9, 4334.	5.8	728
3	Broadband diffusion of terahertz waves by multi-bit coding metasurfaces. Light: Science and Applications, 2015, 4, e324-e324.	7.7	461
4	Anisotropic coding metamaterials and their powerful manipulation of differently polarized terahertz waves. Light: Science and Applications, 2016, 5, e16076-e16076.	7.7	422
5	Convolution Operations on Coding Metasurface to Reach Flexible and Continuous Controls of Terahertz Beams. Advanced Science, 2016, 3, 1600156.	5.6	343
6	Programmable time-domain digital-coding metasurface for non-linear harmonic manipulation and new wireless communication systems. National Science Review, 2019, 6, 231-238.	4.6	298
7	Information metamaterials and metasurfaces. Journal of Materials Chemistry C, 2017, 5, 3644-3668.	2.7	297
8	A broadband terahertz absorber using multi-layer stacked bars. Applied Physics Letters, 2015, 106, .	1.5	289
9	Information entropy of coding metasurface. Light: Science and Applications, 2016, 5, e16172-e16172.	7.7	253
10	Spin-Controlled Multiple Pencil Beams and Vortex Beams with Different Polarizations Generated by Pancharatnam-Berry Coding Metasurfaces. ACS Applied Materials & Interfaces, 2017, 9, 36447-36455.	4.0	205
11	Broadband amplification of spoof surface plasmon polaritons at microwave frequencies. Laser and Photonics Reviews, 2015, 9, 83-90.	4.4	204
12	Anomalous Refraction and Nondiffractive Bessel-Beam Generation of Terahertz Waves through Transmission-Type Coding Metasurfaces. ACS Photonics, 2016, 3, 1968-1977.	3.2	175
13	Realization of Low Scattering for a High-Gain Fabry–Perot Antenna Using Coding Metasurface. IEEE Transactions on Antennas and Propagation, 2017, 65, 3374-3383.	3.1	141
14	Concepts, Working Principles, and Applications of Coding and Programmable Metamaterials. Advanced Optical Materials, 2017, 5, 1700624.	3.6	133
15	Information Metamaterial Systems. IScience, 2020, 23, 101403.	1.9	132
16	Frequency‐Dependent Dual‐Functional Coding Metasurfaces at Terahertz Frequencies. Advanced Optical Materials, 2016, 4, 1965-1973.	3.6	125
17	Coding Metasurfaces for Diffuse Scattering: Scaling Laws, Bounds, and Suboptimal Design. Advanced Optical Materials, 2017, 5, 1700455.	3.6	123
18	Direct Transmission of Digital Message via Programmable Coding Metasurface. Research, 2019, 2019, 2584509.	2.8	115

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19	Terahertz Broadband Low‐Reflection Metasurface by Controlling Phase Distributions. Advanced Optical Materials, 2015, 3, 1405-1410.	3.6	105
20	Machine‐Learning Designs of Anisotropic Digital Coding Metasurfaces. Advanced Theory and Simulations, 2019, 2, 1800132.	1.3	100
21	Non-Hermitian Skin Effect in a Non-Hermitian Electrical Circuit. Research, 2021, 2021, 5608038.	2.8	79
22	Gain- and Loss-Induced Topological Insulating Phase in a Non-Hermitian Electrical Circuit. Physical Review Applied, 2020, 13, .	1.5	77
23	Full-State Controls of Terahertz Waves Using Tensor Coding Metasurfaces. ACS Applied Materials & Interfaces, 2017, 9, 21503-21514.	4.0	66
24	Topologically Protected Edge State in Two-Dimensional Su–Schrieffer–Heeger Circuit. Research, 2019, 2019, 8609875.	2.8	55
25	Octupole corner state in a three-dimensional topological circuit. Light: Science and Applications, 2020, 9, 145.	7.7	45
26	Electromagnetically induced transparency metamaterial based on spoof localized surface plasmons at terahertz frequencies. Scientific Reports, 2016, 6, 27596.	1.6	40
27	Controlling the Bandwidth of Terahertz Low‐Scattering Metasurfaces. Advanced Optical Materials, 2016, 4, 1773-1779.	3.6	39
28	Flexible Controls of Terahertz Waves Using Coding and Programmable Metasurfaces. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-12.	1.9	37
29	Real-time terahertz meta-cryptography using polarization-multiplexed graphene-based computer-generated holograms. Nanophotonics, 2020, 9, 2861-2877.	2.9	36
30	Information theory of metasurfaces. National Science Review, 2020, 7, 561-571.	4.6	34
31	Anisotropic Metasurface Holography in 3-D Space With High Resolution and Efficiency. IEEE Transactions on Antennas and Propagation, 2021, 69, 302-316.	3.1	34
32	An Automation System for Controlling Streetlights and Monitoring Objects Using Arduino. Sensors, 2018, 18, 3178.	2.1	24
33	Direct Transmission of Digital Message via Programmable Coding Metasurface. Research, 2019, 2019, 1-12.	2.8	22
34	Full controls of OAM vortex beam and realization of retro and negative reflections at oblique incidence using dual-band 2-bit coding metasurface. Materials Research Express, 2019, 6, 125804.	0.8	18
35	A novel EM concentrator with open-concentrator region based on multi-folded transformation optics. Scientific Reports, 2018, 8, 9641.	1.6	16
36	A general theory to analyse and design wireless power transfer based on impedance matching. International Journal of Electronics, 2014, 101, 1375-1404.	0.9	15

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37	Flexible controls of broadband electromagnetic wavefronts with a mechanically programmable metamaterial. Scientific Reports, 2019, 9, 1809.	1.6	15
38	Single-Equipment with Multiple-Application for an Automated Robot-Car Control System. Sensors, 2019, 19, 662.	2.1	11
39	Controls of transmitted electromagnetic waves for diverse functionalities using polarization-selective dual-band 2 bit coding metasurface. Journal of Optics (United Kingdom), 2020, 22, 015104.	1.0	10
40	Research progress of information metamaterials. Wuli Xuebao/Acta Physica Sinica, 2020, 69, 158101.	0.2	9
41	Topologically Protected Edge State in Two-Dimensional Suâ€"Schriefferâ€"Heeger Circuit. Research, 2019, 2019, 1-8.	2.8	7
42	Estimation of spatial extreme sea levels in Xiamen seas by the quadrature JPM-OS method. Natural Hazards, 2021, 106, 327-348.	1.6	3
43	Metasurfaces: Controlling the Bandwidth of Terahertz Low-Scattering Metasurfaces (Advanced) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.6	0