

Sai Sui

List of Publications by Year in descending order

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43
papers

1,045
citations

516710

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434195

31
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docs citations

43
times ranked

942
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep Learning: A Rapid and Efficient Route to Automatic Metasurface Design. <i>Advanced Science</i> , 2019, 6, 1900128.	11.2	236
2	Wideband, wide-angle coding phase gradient metasurfaces based on Pancharatnam-Berry phase. <i>Scientific Reports</i> , 2017, 7, .	3.3	112
3	Phase-to-pattern inverse design paradigm for fast realization of functional metasurfaces via transfer learning. <i>Nature Communications</i> , 2021, 12, 2974.	12.8	92
4	Absorptive coding metasurface for further radar cross section reduction. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 065603.	2.8	73
5	Symmetry-based coding method and synthesis topology optimization design of ultra-wideband polarization conversion metasurfaces. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	61
6	Two-dimensional coding phase gradient metasurface for RCS reduction. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 375103.	2.8	57
7	Topology optimization design of a lightweight ultra-broadband wide-angle resistance frequency selective surface absorber. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 215101.	2.8	45
8	Fast optimization method of designing a wideband metasurface without using the Pancharatnam-Berry phase. <i>Optics Express</i> , 2018, 26, 1443.	3.4	32
9	Vortex beam generated by circular-polarized metasurface reflector antenna. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 255306.	2.8	30
10	Transparent and broadband absorption-diffusion-integrated low-scattering metamaterial by standing-up lattice. <i>Optics Express</i> , 2018, 26, 28363.	3.4	27
11	Six-Mode Orbital Angular Momentum Generator Enabled by Helicity-Assisted Full-Space Metasurface with Flexible Manipulation of Phase, Polarization, and Spatial Information. <i>Advanced Optical Materials</i> , 2022, 10, .	7.3	23
12	Multiplexing the aperture of a metasurface: inverse design via deep-learning-forward genetic algorithm. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 455002.	2.8	22
13	Fast coding method of metasurfaces based on 1D coding in orthogonal directions. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 475103.	2.8	20
14	Transparent absorption-diffusion-integrated water-based all-dielectric metasurface for broadband backward scattering reduction. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 485301.	2.8	19
15	Multi-Beam Metasurface Antenna by Combining Phase Gradients and Coding Sequences. <i>IEEE Access</i> , 2019, 7, 62087-62094.	4.2	18
16	A Broadband Wide-Angle Synthetical Absorber Designed by Topology Optimization of Resistance Surface and Metal Wires. <i>IEEE Access</i> , 2019, 7, 142675-142681.	4.2	17
17	Synthetic design for a microwave absorber and antireflection to achieve wideband scattering reduction. <i>Journal Physics D: Applied Physics</i> , 2019, 52, 035103.	2.8	17
18	Wideband planar retro-reflective metasurfaces for backscattering enhancement under oblique incidence. <i>Journal Physics D: Applied Physics</i> , 2018, 51, 335103.	2.8	15

#	ARTICLE	IF	CITATIONS
19	Ultra-broadband co-polarization anomalous reflection metasurface. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	13
20	Machine-learning-empowered multispectral metafilm with reduced radar cross section, low infrared emissivity, and visible transparency. Photonics Research, 2022, 10, 1146.	7.0	12
21	Two-dimensional QR-coded metamaterial absorber. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	11
22	Ultra-wideband and high-efficiency transparent coding metasurface. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	11
23	Chaos-based coding metasurface for radar cross-section reduction. Journal Physics D: Applied Physics, 2019, 52, 405304.	2.8	8
24	Genetic-algorithm-empowered metasurface design: simultaneous realization of high microwave frequency-selection and low infrared surface-emissivity. Optics Express, 2021, 29, 20150.	3.4	8
25	Transparent metasurface for wideband backward scattering reduction with synthetic optimization algorithm. Journal Physics D: Applied Physics, 2022, 55, 275002.	2.8	8
26	Integrated design of single-layer multispectral metasurface with broadband microwave polarization rotation and low infrared emissivity. Infrared Physics and Technology, 2020, 111, 103546.	2.9	7
27	Design of Aperture-Multiplexing Metasurfaces via Back-Propagation Neural Network: Independent Control of Orthogonally-Polarized Waves. IEEE Transactions on Antennas and Propagation, 2022, 70, 4569-4575.	5.1	7
28	A circular-polarized metasurface planar reflector antenna based on Pancharatnam-Berry phase. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	6
29	Centrosymmetric topology optimization design achieves ultra-broadband polarization conversion and its further application. Journal Physics D: Applied Physics, 2020, 53, 335001.	2.8	6
30	Overcome chromatism of metasurface via Greedy Algorithm empowered by self-organizing map neural network. Optics Express, 2020, 28, 35724.	3.4	6
31	Three dimensional dual-band phase gradient metamaterial based on Pancharatnam-Berry phase. Journal of Applied Physics, 2017, 122, 063106.	2.5	5
32	Metasurface design by a Hopfield network: finding a customized phase response in a broadband. Journal Physics D: Applied Physics, 2020, 53, 415001.	2.8	5
33	Multiform frequency selective surfaces optimal design based on topology optimization. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21491.	1.2	4
34	Polarization-independent quadri-channel vortex beam generator based on transmissive coding metasurface. OSA Continuum, 0, , .	1.8	4
35	A hybrid encoding method for frequency selective surface optimization design with angular stability property. Applied Physics A: Materials Science and Processing, 2019, 125, 1.	2.3	2
36	A transgenic genetic algorithm design method that helps to increase the design freedom of metasurfaces. Journal Physics D: Applied Physics, 2021, 54, 135001.	2.8	2

#	ARTICLE	IF	CITATIONS
37	Shape trapped-mode resonances in polarization conversion metasurfaces for ultra-sensitive terahertz sensing. , 2015, , .		1
38	Ultra-wideband polarization conversion metasurface based on topology optimal design and geometry tailor. , 2015, , .		1
39	Passive reconfigurable coding metasurface for broadband manipulation of reflective amplitude, phase and polarization states. Smart Materials and Structures, 2020, 29, 015029.	3.5	1
40	Coding Metasurface Design via Intelligence Algorithm. , 2022, , .		1
41	Fast Design of Polarization Independent Metasurfaces for Shaping Electromagnetic Waves. , 2018, , .		0
42	Coding Metasurface for Radar Cross Section Reduction. , 2020, , .		0
43	Greedy-algorithm-empowered design of wideband achromatic beam deflector based on spoof surface plasmon polariton mode. European Physical Journal Plus, 2022, 137, 1.	2.6	0