

Sai Sui

List of Publications by Year in descending order

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516710

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43
times ranked

942
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Six-Mode Orbital Angular Momentum Generator Enabled by Helicity-Assisted Full-Space Metasurface with Flexible Manipulation of Phase, Polarization, and Spatial Information. Advanced Optical Materials, 2022, 10, .	7.3	23
3	Machine-learning-empowered multispectral metafilm with reduced radar cross section, low infrared emissivity, and visible transparency. Photonics Research, 2022, 10, 1146.	7.0	12
4	Transparent metasurface for wideband backward scattering reduction with synthetic optimization algorithm. Journal Physics D: Applied Physics, 2022, 55, 275002.	2.8	8
5	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
6	Coding Metasurface Design via Intelligence Algorithm. , 2022, , .		1
7	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
8	Phase-to-pattern inverse design paradigm for fast realization of functional metasurfaces via transfer learning. Nature Communications, 2021, 12, 2974.	12.8	92
9	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
10	Passive reconfigurable coding metasurface for broadband manipulation of reflective amplitude, phase and polarization states. Smart Materials and Structures, 2020, 29, 015029.	3.5	1
11	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
12	Centrosymmetric topology optimization design achieves ultra-broadband polarization conversion and its further application. Journal Physics D: Applied Physics, 2020, 53, 335001.	2.8	6
13	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
14	Multiplexing the aperture of a metasurface: inverse design via deep-learning-forward genetic algorithm. Journal Physics D: Applied Physics, 2020, 53, 455002.	2.8	22
15	Overcome chromatism of metasurface via Greedy Algorithm empowered by self-organizing map neural network. Optics Express, 2020, 28, 35724.	3.4	6
16	Coding Metasurface for Radar Cross Section Reduction. , 2020, , .		0
17	Chaos-based coding metasurface for radar cross-section reduction. Journal Physics D: Applied Physics, 2019, 52, 405304.	2.8	8
18	A Broadband Wide-Angle Synthetical Absorber Designed by Topology Optimization of Resistance Surface and Metal Wires. IEEE Access, 2019, 7, 142675-142681.	4.2	17

#	ARTICLE	IF	CITATIONS
19	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
20	Multi-Beam Metasurface Antenna by Combining Phase Gradients and Coding Sequences. IEEE Access, 2019, 7, 62087-62094.	4.2	18
21	Deep Learning: A Rapid and Efficient Route to Automatic Metasurface Design. Advanced Science, 2019, 6, 1900128.	11.2	236
22	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
23	Vortex beam generated by circular-polarized metasurface reflector antenna. Journal Physics D: Applied Physics, 2019, 52, 255306.	2.8	30
24	Synthetic design for a microwave absorber and antireflection to achieve wideband scattering reduction. Journal Physics D: Applied Physics, 2019, 52, 035103.	2.8	17
25	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
26	Absorptive coding metasurface for further radar cross section reduction. Journal Physics D: Applied Physics, 2018, 51, 065603.	2.8	73
27	Fast Design of Polarization Independent Metasurfaces for Shaping Electromagnetic Waves. , 2018, , .		0
28	Transparent absorption-diffusion-integrated water-based all-dielectric metasurface for broadband backward scattering reduction. Journal Physics D: Applied Physics, 2018, 51, 485301.	2.8	19
29	Fast coding method of metasurfaces based on 1D coding in orthogonal directions. Journal Physics D: Applied Physics, 2018, 51, 475103.	2.8	20
30	Transparent and broadband absorption-diffusion-integrated low-scattering metamaterial by standing-up lattice. Optics Express, 2018, 26, 28363.	3.4	27
31	Fast optimization method of designing a wideband metasurface without using the Pancharatnam-Berry phase. Optics Express, 2018, 26, 1443.	3.4	32
32	Two-dimensional coding phase gradient metasurface for RCS reduction. Journal Physics D: Applied Physics, 2018, 51, 375103.	2.8	57
33	Wideband planar retro-reflective metasurfaces for backscattering enhancement under oblique incidence. Journal Physics D: Applied Physics, 2018, 51, 335103.	2.8	15
34	Ultra-wideband and high-efficiency transparent coding metasurface. Applied Physics A: Materials Science and Processing, 2018, 124, 1.	2.3	11
35	Wideband, wide-angle coding phase gradient metasurfaces based on Pancharatnam-Berry phase. Scientific Reports, 2017, 7, .	3.3	112
36	Ultra-broadband co-polarization anomalous reflection metasurface. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	13

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37	Three dimensional dual-band phase gradient metamaterial based on Pancharatnam-Berry phase. Journal of Applied Physics, 2017, 122, 063106.	2.5	5
38	Symmetry-based coding method and synthesis topology optimization design of ultra-wideband polarization conversion metasurfaces. Applied Physics Letters, 2016, 109, .	3.3	61
39	Two-dimensional QR-coded metamaterial absorber. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	11
40	Shape trapped-mode resonances in polarization conversion metasurfaces for ultra-sensitive terahertz sensing. , 2015, , .		1
41	Ultra-wideband polarization conversion metasurface based on topology optimal design and geometry tailor. , 2015, , .		1
42	Topology optimization design of a lightweight ultra-broadband wide-angle resistance frequency selective surface absorber. Journal Physics D: Applied Physics, 2015, 48, 215101.	2.8	45
43	Polarization-independent quadri-channel vortex beam generator based on transmissive coding metasurface. OSA Continuum, 0, , .	1.8	4