

Jun Ding

List of Publications by Year in descending order

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Version: 2024-02-01

78
papers

2,740
citations

331259

21
h-index

182168

51
g-index

79
all docs

79
docs citations

79
times ranked

2570
citing authors

#	ARTICLE	IF	CITATIONS
1	Electromagnetic reprogrammable coding-metasurface holograms. <i>Nature Communications</i> , 2017, 8, 197.	5.8	747
2	PAMSCOD: Platoon-based arterial multi-modal signal control with online data. <i>Transportation Research Part C: Emerging Technologies</i> , 2012, 20, 164-184.	3.9	213
3	A Deep Learning Approach for Objective-Driven All-Dielectric Metasurface Design. <i>ACS Photonics</i> , 2019, 6, 3196-3207.	3.2	212
4	Multi-modal traffic signal control with priority, signal actuation and coordination. <i>Transportation Research Part C: Emerging Technologies</i> , 2014, 46, 65-82.	3.9	187
5	Tuneable complementary metamaterial structures based on graphene for single and multiple transparency windows. <i>Scientific Reports</i> , 2014, 4, 6128.	1.6	151
6	Ultra-thin high-efficiency mid-infrared transmissive Huygens meta-optics. <i>Nature Communications</i> , 2018, 9, 1481.	5.8	126
7	Multiwavelength Metasurfaces Based on Single-Layer Dual-Wavelength Meta-Atoms: Toward Complete Phase and Amplitude Modulations at Two Wavelengths. <i>Advanced Optical Materials</i> , 2017, 5, 1700079.	3.6	103
8	Simultaneous Realization of Anomalous Reflection and Transmission at Two Frequencies using Bi-functional Metasurfaces. <i>Scientific Reports</i> , 2018, 8, 1876.	1.6	76
9	Deep learning modeling approach for metasurfaces with high degrees of freedom. <i>Optics Express</i> , 2020, 28, 31932.	1.7	73
10	A Novel Design of 4 times 4 Butler Matrix With Relatively Flexible Phase Differences. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2016, 15, 1277-1280.	2.4	69
11	Mid-Infrared Tunable Dual-Frequency Cross Polarization Converters Using Graphene-Based L-Shaped Nanoslot Array. <i>Plasmonics</i> , 2015, 10, 351-356.	1.8	67
12	High-Efficiency Ultrathin Dual-Wavelength Pancharatnam-Berry Metasurfaces with Complete Independent Phase Control. <i>Advanced Optical Materials</i> , 2019, 7, 1900594.	3.6	67
13	Efficient multiband and broadband cross polarization converters based on slotted L-shaped nanoantennas. <i>Optics Express</i> , 2014, 22, 29143.	1.7	66
14	Heuristic Algorithm for Priority Traffic Signal Control. <i>Transportation Research Record</i> , 2011, 2259, 1-7.	1.0	62
15	Dual-Wavelength Terahertz Metasurfaces with Independent Phase and Amplitude Control at Each Wavelength. <i>Scientific Reports</i> , 2016, 6, 34020.	1.6	59
16	Dual-band balun with flexible frequency ratios. <i>Electronics Letters</i> , 2014, 50, 1213-1214.	0.5	43
17	Full control of dual-band vortex beams using a high-efficiency single-layer bi-spectral 2-bit coding metasurface. <i>Optics Express</i> , 2020, 28, 17374.	1.7	42
18	Frequency-Multiplexed Complex-Amplitude Meta-Devices Based on Bispectral 2-Bit Coding Meta-Atoms. <i>Advanced Optical Materials</i> , 2020, 8, 2000919.	3.6	27

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19	Design of wide-angle broadband Luneburg lens based optical couplers for plasmonic slot nano-waveguides. Journal of Applied Physics, 2013, 114, .	1.1	26
20	Design of dual-band transmission line with flexible phase shifts and its applications. Electronics Letters, 2015, 51, 261-262.	0.5	23
21	Dual-Band Terahertz Auto-Focusing Airy Beam Based on Single-Layer Geometric Metasurfaces with Independent Complex Amplitude Modulation at Each Wavelength. Advanced Theory and Simulations, 2019, 2, 1900071.	1.3	23
22	Dual-Band High Efficiency Terahertz Meta-Devices Based on Reflective Geometric Metasurfaces. IEEE Access, 2019, 7, 58131-58138.	2.6	22
23	Gain-Enhanced Planar Log-Periodic Dipole Array Antenna Using Nonresonant Metamaterial. IEEE Transactions on Antennas and Propagation, 2019, 67, 6193-6198.	3.1	21
24	Design of Microwave Baluns With Flexible Structures. IEEE Microwave and Wireless Components Letters, 2014, 24, 695-697.	2.0	18
25	Dynamically Tunable Fano Metamaterials through the Coupling of Graphene Grating and Square Closed Ring Resonator. Plasmonics, 2015, 10, 1833-1839.	1.8	17
26	High-Efficiency Full-Space Complex-Amplitude Metasurfaces Enabled by a Bi-Spectral Single-Substrate-Layer Meta-Atom. Advanced Optical Materials, 2022, 10, .	3.6	15
27	Electrically tunable diffraction efficiency from gratings in Al-doped ZnO. Applied Physics Letters, 2017, 110, .	1.5	13
28	Multifunctional Geometric Metasurfaces Based on Tri-Spectral Meta-Atoms with Completely Independent Phase Modulations at Three Wavelengths. Advanced Theory and Simulations, 2020, 3, 2000099.	1.3	13
29	Alleviating Orbital-Angular-Momentum-Mode Dispersion Using a Reflective Metasurface. Physical Review Applied, 2020, 13, .	1.5	12
30	PAMSCOD: Platoon-based Arterial Multi-modal Signal Control with Online Data. Procedia, Social and Behavioral Sciences, 2011, 17, 462-489.	0.5	11
31	Design of a new broadband monopole optical nano-antenna. Journal of Applied Physics, 2013, 114, 184305.	1.1	11
32	Landstorfer Printed Log-Periodic Dipole Array Antenna With Enhanced Stable High Gain for 5G Communication. IEEE Transactions on Antennas and Propagation, 2021, 69, 8407-8414.	3.1	9
33	Ultra-compact lumped element cross-over. Electronics Letters, 2015, 51, 1082-1084.	0.5	7
34	Localized surface plasmon polariton resonance in holographically structured Al-doped ZnO. Journal of Applied Physics, 2016, 120, 043109.	1.1	7
35	Novel Cross-Coupled Dual-Band Bandpass Filters With Compact Size Based on Dual-Mode Isosceles Right-Angled Triangular Resonators. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 3037-3047.	2.9	7
36	Dual-frequency multiple compact vortex beams generation based on single-layer Bi-spectral metasurface. Applied Physics Letters, 2021, 119, .	1.5	7

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37	All-dielectric Metasurface Designs Enabled by Deep Neural Networks. , 2020, , .		7
38	An improved two-antenna direction of arrival (DOA) technique inspired by human ears. , 2008, , .		6
39	A novel dual-band rat-race coupler. , 2014, , .		6
40	Multichannel High-Efficiency Metasurfaces Based on Tri-Band Single-Cell Meta-Atoms with Independent Complex Amplitude Modulations. Advanced Photonics Research, 2021, 2, 2100088.	1.7	6
41	An Accurate and Systematic Surface-Wave Pole Location Method for Multilayered Media. IEEE Transactions on Antennas and Propagation, 2014, 62, 997-1001.	3.1	5
42	Tunable Extraordinary THz Transmission Using Liquid Metal-Based Devices. Plasmonics, 2014, 9, 1221-1227.	1.8	5
43	A dual-band branch line coupler based on Pi-shaped coupled lines. Microwave and Optical Technology Letters, 2015, 57, 501-504.	0.9	5
44	Holographic fabrication of nanoantenna templates through a single reflective optical element. Applied Optics, 2015, 54, 2720.	0.9	5
45	Novel design of multiband branch-line coupler using multiband transmission lines. Microwave and Optical Technology Letters, 2014, 56, 2841-2845.	0.9	4
46	Ultrathin Dual-Band Wide-Angle Beam Scanning Metalens Based on High-Efficiency Meta-Atom. Advanced Photonics Research, 2022, 3, .	1.7	4
47	Four-Channel Kaleidoscopic Metasurfaces Enabled by a Single-Layered Single-Cell Quad-Band Meta-Atom. Advanced Theory and Simulations, 2022, 5, .	1.3	4
48	Broadband monopole optical nano-antennas. Proceedings of SPIE, 2014, , .	0.8	3
49	Design of a dual-band sequential power amplifier. , 2016, , .		3
50	An ultra-slow-wave transmission line on CMOS technology. Microwave and Optical Technology Letters, 2017, 59, 604-606.	0.9	3
51	Beam-Steerable Reflectarray Antenna for C-Band Radar. , 2019, , .		3
52	High-efficiency Dual-band Bifocal Metalens Based on Reflective Metasurface. , 2019, , .		3
53	Novel balanced single/dual-band bandpass filters based on a circular patch resonator. IET Microwaves, Antennas and Propagation, 2021, 15, 206-220.	0.7	3
54	Wideband Isolation Enhancement of Dual-Antenna Array Using Hybrid Decoupling Structures. , 2021, , .		2

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55	Broadband high-efficiency polarization-encoded meta-holograms based on 3-bit spin-decoupled reflective meta-atoms. Optics Express, 2022, 30, 4249.	1.7	2
56	Dual-band microwave power amplifier design using GaN transistors. , 2014, , .		1
57	Design of a tunable sequential power amplifier. Microwave and Optical Technology Letters, 2015, 57, 2899-2901.	0.9	1
58	Ultra-thin, high-efficiency mid-infrared Huygens metasurface optics. , 2018, , .		1
59	Electrically tunable, sustainable, and erasable broadband light absorption in graphene sandwiched in Al ₂ O ₃ oxides. Optical Materials Express, 2019, 9, 1095.	1.6	1
60	Dual-band Four-beam Generator Base on 2-bit Reflective Coding Metasurface. , 2020, , .		1
61	Broadband Compact Microstrip Antenna Loaded with Metasurface. , 2020, , .		1
62	Dual-Band Orbital Angular Momentum Beam Generator base on the 2-Bit Reflective Metasurface. , 2020, , .		1
63	A broadband aperture-coupled stacked microstrip antenna with both patches notched and offset. Journal of Electronics, 2008, 25, 197-199.	0.2	0
64	Design of a 180° directional coupler with arbitrary branch lengths. , 2014, , .		0
65	Transformation optics for microwave and optical device design. , 2014, , .		0
66	Asymmetrical stepped-junction nanoantennas. , 2015, , .		0
67	A novel design of tunable terahertz devices using graphene parallel-plate waveguide. , 2015, , .		0
68	Tunable graphene-based dual-frequency cross polarization converters. , 2015, , .		0
69	System applications of planar couplers. , 2015, , .		0
70	Multi-wavelength near infrared cross polarization converters. , 2015, , .		0
71	Design of a dual-band sequential power amplifier. Microwave and Optical Technology Letters, 2016, 58, 99-102.	0.9	0
72	Holographic fabrication of hole arrays in AZO for study of surface plasmon resonances. , 2017, , .		0

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73	Circularly Polarized Substrate Integrated Dielectric Resonator Antenna. , 2018, , .		0
74	A High-efficiency Dual-band Deflector Based on Geometric Metasurface in the X-Band. , 2019, , .		0
75	Single-layer Tri-band Metasurface with Independent Phase Control at Terahertz Frequencies. , 2019, , .		0
76	A High-Efficiency Millimeter-Wave Beam-Steering Lens antenna. , 2020, , .		0
77	High-Efficiency Dual-band Orbital Angular Momentum Generation Based on Trilayer Metasurface. , 2020, , .		0
78	Focusing Metalens Base on 3-Bit Circular Polarization Multiplexing Metasurface. , 2021, , .		0