

Yongjun Huang

List of Publications by Year in descending order

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137
all docs

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docs citations

137
times ranked

2321
citing authors

#	ARTICLE	IF	CITATIONS
1	On the Design of Discrete Apertures for High-Efficiency Wireless Power Transfer. IEEE Transactions on Antennas and Propagation, 2022, 70, 783-788.	5.1	3
2	Intermittent Magnetic Field Monitoring System Based on Passive RFID Sensor Tags. IEEE Sensors Journal, 2022, 22, 819-831.	4.7	5
3	Research on the reflection-type ELC-based optomechanical metamaterial. Optics Express, 2022, 30, 5498.	3.4	5
4	Ultrasensitive nanoscale optomechanical electrometer using photonic crystal cavities. Nanophotonics, 2022, .	6.0	1
5	High-FOM Temperature Sensing Based on Hg-EIT-Like Liquid Metamaterial Unit. Nanomaterials, 2022, 12, 1395.	4.1	4
6	Design of Optical Gyroscope Based on the Cavity Optomechanics Structure. , 2022, , .		2
7	Numerical Demonstrations of Beam Reconfigurable Reflective-type Opto-mechanical Metasurface. , 2022, , .		0
8	Research on Lithium Niobate-based Photonic Crystal with Wide Bandgap. , 2022, , .		0
9	High-Efficiency Microwave Rectifier With Coupled Transmission Line for Low-Power Energy Harvesting and Wireless Power Transmission. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 916-925.	4.6	20
10	Electromagnetic Metasurfaces and Reconfigurable Metasurfaces: A Review. Frontiers in Physics, 2021, 8, .	2.1	33
11	Thermally tunable high-Q metamaterial and sensing application based on liquid metals. Optics Express, 2021, 29, 6069.	3.4	13
12	Spin-Encoded Wavelength-Direction Multitasking Janus Metasurfaces. Advanced Optical Materials, 2021, 9, 2100190.	7.3	73
13	Deterministic Approach to Achieve Full-Polarization Cloak. Research, 2021, 2021, 6382172.	5.7	39
14	Microwave Airy Beam Generation With Microstrip Patch Antenna Array. IEEE Transactions on Antennas and Propagation, 2021, 69, 2290-2301.	5.1	16
15	Polarization-insensitive 3D conformal-skin metasurface cloak. Light: Science and Applications, 2021, 10, 75.	16.6	111
16	Focus Beam Synthesis With Circular Antenna Array Based on Radial Waveguide Feed Network. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 748-752.	4.0	0
17	High-Q Hg-anapole resonator with microstrip line coupling for high-precision temperature sensing applications. Results in Physics, 2021, 24, 104172.	4.1	4
18	A Hydrogen Concentration Monitoring System With Passive Tags. IEEE Internet of Things Journal, 2021, 8, 9244-9256.	8.7	3

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19	A Novel TRNG Based on Traditional ADC Nonlinear Effect and Chaotic Map for IoT Security and Anticollision. Security and Communication Networks, 2021, 2021, 1-16.	1.5	0
20	Design and Simulation of Photonic Crystal Optomechanical Two-Axis Differential Accelerometer. , 2021, , .		0
21	Experimental Demonstrations of ELC-type Microwave Optomechanical Metamaterial. , 2021, , .		0
22	Ultra-thin broadband absorber using active non-Foster devices and FSS-magnetic material. , 2021, , .		0
23	Broadband mid-infrared perfect absorber using fractal Gosper curve. Journal Physics D: Applied Physics, 2020, 53, 105106.	2.8	25
24	Wavevector and Frequency Multiplexing Performed by a Spinâ€Decoupled Multichannel Metasurface. Advanced Materials Technologies, 2020, 5, 1900710.	5.8	87
25	Using 5G Network Slicing and Non-Orthogonal Multiple Access to Transmit Medical Data in a Mobile Hospital System. IEEE Access, 2020, 8, 189163-189178.	4.2	7
26	Numerical demonstrations of thermally tunable metamaterials based on liquid metals. , 2020, , .		0
27	Experimental Demonstration of Microwave Two-Dimensional Airy Beam Generation Based on Single-Layer Metasurface. IEEE Transactions on Antennas and Propagation, 2020, 68, 7507-7516.	5.1	33
28	Dielectric metasurfaces: From wavefront shaping to quantum platforms. Progress in Surface Science, 2020, 95, 100584.	8.3	23
29	Multiplexed Metasurfaces: Wavevector and Frequency Multiplexing Performed by a Spinâ€Decoupled Multichannel Metasurface (Adv. Mater. Technol. 1/2020). Advanced Materials Technologies, 2020, 5, 2070005.	5.8	7
30	A Chipâ€Scale Oscillationâ€Mode Optomechanical Inertial Sensor Near the Thermodynamical Limits. Laser and Photonics Reviews, 2020, 14, 1800329.	8.7	31
31	Dual-Mode Microstrip Patch Antennas For Largely Spaced Phased Arrays. , 2020, , .		2
32	Demonstrations of Tunable High-Q Asymmetrical Liquid Metamaterial. , 2020, , .		0
33	Optimization of Large Antenna Arrays for Radiative Wireless Power Transfer. , 2020, , .		2
34	Chiralityâ€Assisted Highâ€Efficiency Metasurfaces with Independent Control of Phase, Amplitude, and Polarization. Advanced Optical Materials, 2019, 7, 1801479.	7.3	181
35	A Compact High-Efficiency Watt-Level Microwave Rectifier With a Novel Harmonic Termination Network. IEEE Microwave and Wireless Components Letters, 2019, 29, 418-420.	3.2	24
36	Millimeter-Wave SIW Filter Based on the Stepped-Impedance Face-to-Face E-Shaped DGSs. , 2019, , .		2

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37	Experimental investigations of wave-DSRR interactions in liquid-phase media. Applied Physics Letters, 2019, 114, .	3.3	2
38	A Circularly Polarized Antenna Array with Gain Enhancement for Long-Range UHF RFID Systems. Electronics (Switzerland), 2019, 8, 400.	3.1	11
39	38 GHz SIW filter based on the stepped impedance face-shaped DGSs for 5G application. Microwave and Optical Technology Letters, 2019, 61, 1500-1504.	1.4	4
40	Study on the Characteristics of Mercury-based Electromagnetic Metamaterials and Its Temperature Sensing Technology. , 2019, , .		1
41	Fast and Automatic RF Design Based on MATLAB-HFSS Control Applied on Magnetic Absorber with Metasurface. , 2019, , .		1
42	Ultra-wideband Active Absorber Based on Multiple Frequency Selective Surface and Magnetic Layers. , 2019, , .		0
43	Ultra-wideband Dual-layer Magnetic Absorber with Active Impedance Matching. , 2019, , .		0
44	Compact Microwave Passive Components Based on the Metamaterial Unit Cells. , 2019, , .		0
45	A High-Efficiency Inverse Class-F Microwave Rectifier for Wireless Power Transmission. IEEE Microwave and Wireless Components Letters, 2019, 29, 725-728.	3.2	34
46	Broadband Metamaterial Absorbers. Advanced Optical Materials, 2019, 7, 1800995.	7.3	404
47	Low-Cost Air Gap Metasurface Structure for High Absorption Efficiency Energy Harvesting. International Journal of Antennas and Propagation, 2019, 2019, 1-8.	1.2	10
48	Nonlinear Metasurface Antenna Radome for Power Protection Application. , 2019, , .		0
49	Experimental Demonstration of Microwave Airy Beam Generation Based on Metasurface. , 2019, , .		0
50	A Compact Broadband Cross-Shaped Circularly Polarized Planar Monopole Antenna With a Ground Plane Extension. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 335-338.	4.0	69
51	A CPW-fed broadband quasi-Yagi antenna with low cross-polarization performance. AEU - International Journal of Electronics and Communications, 2018, 83, 188-192.	2.9	11
52	Low-Profile Ultra-Broadband Log-Period Monopole End-Fire Antenna. International Journal of Antennas and Propagation, 2018, 2018, 1-8.	1.2	1
53	Experimental Analysis of Nonlinear Metamaterials Immersed in Liquid-Phase Medium. , 2018, , .		0
54	Optimization of Circularly Polarized Corner Truncated Patch with Matlab Antenna Toolbox. , 2018, , .		0

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55	On the Generation of Truncated Airy Beams with Antenna Arrays. , 2018, , .		2
56	Design of A Compact Tri-band Omnidirectional Circularly Polarized Antenna. , 2018, , .		3
57	Wideband Tunable Metamaterials with Magnetic Ferrite and/or Hydrargyrum. , 2018, , .		0
58	Wave-Matter Interaction Analysis of Metamaterial Unit Immersed in Liquid Media. , 2018, , .		0
59	Design of Miniaturized Multi-Protocol UHF RFID Reader Module. , 2018, , .		0
60	A High-efficiency Dual-band Wireless Energy Harvesting Circuit. , 2018, , .		2
61	Tri-band planar monopole antenna with two circularly polarised bandwidths for WiMAX applications. IET Microwaves, Antennas and Propagation, 2018, 12, 2350-2355.	1.4	5
62	High Efficiency Electromagnetic Energy Harvesting with Metasurface. , 2018, , .		3
63	Dynamics Analysis of a Pair of Ring Resonators in Liquid Media. Physical Review Applied, 2018, 10, .	3.8	9
64	High Gain Circularly Polarized Substrate Integrated Coaxial Line Fed Antenna Array for RFID Band. , 2018, , .		0
65	Screw Tightening Monitoring with RFID Passive Tag. , 2018, , .		0
66	Compact Wideband CPW-Fed Meandered-Slot Antenna With Slotted Y-Shaped Central Element for Wi-Fi, WiMAX, and 5G Applications. IEEE Transactions on Antennas and Propagation, 2018, 66, 7395-7399.	5.1	39
67	Compact UHF RFID Tag Antenna for Application of Domestic Animals Management. , 2018, , .		4
68	A Compact Broadband Circularly Polarized Slot Antenna With Two Linked Rectangular Slots and an Inverted-F Feed Line. IEEE Transactions on Antennas and Propagation, 2018, 66, 7374-7377.	5.1	29
69	CPW slot antenna with Y-shaped central monopole and matching arms. International Journal of Microwave and Wireless Technologies, 2018, 10, 1166-1174.	1.9	2
70	Nonlinear coupling states study of electromagnetic force actuated plasmonic nonlinear metamaterials. Optics Express, 2018, 26, 3211.	3.4	10
71	Metamaterial perfect absorber with unabated size-independent absorption. Optics Express, 2018, 26, 20471.	3.4	63
72	Propagation range enhancement of truncated airy beam with antenna array at microwave frequencies. , 2018, , .		5

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73	Spatial Correlation Models of Large-Scale Antenna Topologies Using Maximum Power of Offset Distribution and its Application. IEEE Access, 2018, 6, 36295-36304.	4.2	10
74	Wideband high gain circularly polarized UHF RFID reader microstrip antenna and array. AEU - International Journal of Electronics and Communications, 2017, 77, 76-81.	2.9	10
75	Mesoscopic chaos mediated by Drude electron-hole plasma in silicon optomechanical oscillators. Nature Communications, 2017, 8, 15570.	12.8	47
76	Wideband transition between rectangular waveguide and microstrip using asymmetric fin line probe. Electronics Letters, 2017, 53, 490-492.	1.0	3
77	Wideband SIW H -plane dual-ridged end-fire antenna for conformal application. Microwave and Optical Technology Letters, 2017, 59, 286-292.	1.4	4
78	Broadband circularly polarized square slot antenna with a G -shaped feedline. Microwave and Optical Technology Letters, 2017, 59, 3055-3063.	1.4	14
79	Synchronization in air-slot photonic crystal optomechanical oscillators. Applied Physics Letters, 2017, 110, .	3.3	7
80	A low-frequency chip-scale optomechanical oscillator with 58%kHz mechanical stiffening and more than 100th-order stable harmonics. Scientific Reports, 2017, 7, 4383.	3.3	7
81	Wideband cavity-backed log-periodic-slot end-fire antenna with vertical polarization for conformal application. International Journal of RF and Microwave Computer-Aided Engineering, 2017, 27, e21067.	1.2	4
82	Tri-band planar monopole antenna with dual band circular polarization. , 2017, , .		1
83	Compact CP antenna based on resonant quadrifilar spiral structure for UHF RFID handheld reader. , 2017, , .		4
84	A compact and broadband CPW-fed folded-slot antenna for c-band application. , 2017, , .		2
85	Principle investigation of thermal tunable Hg-metamaterial. , 2017, , .		1
86	Controllable optomechanical coupling and Drude self-pulsation plasma locking in chip-scale optomechanical cavities. Optics Express, 2017, 25, 6851.	3.4	5
87	Active and Tunable Metamaterials. , 2017, , .		1
88	Waveform dynamics in air-slot photonic crystal optomechanical oscillators. , 2017, , .		0
89	Observation of synchronization in air-slot photonic crystal optomechanical oscillator. , 2017, , .		0
90	Polarization conversion of metasurface for the application of wide band low-profile circular polarization slot antenna. Applied Physics Letters, 2016, 109, .	3.3	106

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91	A chip-scale sub- $\frac{1}{4}$ g/Hz ^{1/2} optomechanical DC accelerometer at the thermodynamical limit. , 2016, , .		2
92	Wide optical force-induced RF dynamic range and 100+ high-order stable mechanics in chip-scale optomechanical cavities. , 2016, , .		0
93	Comparison Analysis of Single Loop Resonator Based Miniaturized Triple-Band Planar Monopole Antennas. International Journal of Antennas and Propagation, 2015, 2015, 1-10.	1.2	2
94	Compact Microstrip Bandpass Diplexer Based on Twist Revised Split Ring Resonators. International Journal of Antennas and Propagation, 2015, 2015, 1-6.	1.2	5
95	ULTRA-COMPACT METAMATERIAL ABSORBER WITH LOW-PERMITTIVITY DIELECTRIC SUBSTRATE. Progress in Electromagnetics Research M, 2015, 41, 25-32.	0.9	3
96	Numerical and theoretical analysis on the absorption properties of metasurface-based terahertz absorbers with different thicknesses. Applied Optics, 2015, 54, 299.	1.8	19
97	Compact and high-selectivity microstrip bandpass filter using two-stage twist-modified asymmetric split-ring resonators. Electronics Letters, 2015, 51, 635-637.	1.0	16
98	Frequency instability and phase noise characterization of an integrated chip-scale optomechanical oscillator. , 2015, , .		0
99	Subharmonics radio-frequency division in chip-scale optomechanical oscillators. , 2015, , .		0
100	Dual-Band Notch Filter Based on Twist Split Ring Resonators. International Journal of Antennas and Propagation, 2014, 2014, 1-6.	1.2	4
101	Ka-Band Slot-Microstrip-Covered and Waveguide-Cavity-Backed Monopulse Antenna Array. International Journal of Antennas and Propagation, 2014, 2014, 1-5.	1.2	3
102	Compact microstrip triplexer based on twist-modified asymmetric split-ring resonators. Electronics Letters, 2014, 50, 1712-1713.	1.0	15
103	Experimental demonstration of a magnetically tunable ferrite based metamaterial absorber. Optics Express, 2014, 22, 16408.	3.4	82
104	Systematical analysis for the mixed couplings of two adjacent modified split ring resonators and the application to compact microstrip bandpass filters. AIP Advances, 2014, 4, 107119.	1.3	9
105	Low-index-metamaterial for gain enhancement of planar terahertz antenna. AIP Advances, 2014, 4, .	1.3	37
106	Microwave metamaterial absorber with $n \times \infty$ dielectric thicknesses. , 2014, , .		0
107	An integrated low phase noise radiation-pressure-driven optomechanical oscillator chipset. Scientific Reports, 2014, 4, 6842.	3.3	46
108	A fully integrated chip-scale optomechanical oscillator. , 2014, , .		0

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109	Compact meander T-shaped monopole antenna for dual-band WLAN applications. International Journal of RF and Microwave Computer-Aided Engineering, 2013, 23, 67-73.	1.2	9
110	Tunable triple-band negative permeability metamaterial consisting of single-loop resonators and ferrite. Journal of Electromagnetic Waves and Applications, 2013, 27, 267-275.	1.6	7
111	Wideband giant optical activity and negligible circular dichroism of near-infrared chiral metamaterial based on a complementary twisted configuration. Journal of Optics (United Kingdom), 2013, 15, 125101.	2.2	30
112	Wide-angle and polarization-independent metamaterial absorber based on snowflake-shaped configuration. Journal of Electromagnetic Waves and Applications, 2013, 27, 552-559.	1.6	35
113	Gain enhancement for wide bandwidth endfire antenna with ϵ -shaped resonator (ISR) structures. Electronics Letters, 2013, 49, 736-737.	1.0	27
114	Tunable band notch filters by manipulating couplings of split ring resonators. Applied Optics, 2013, 52, 7517.	1.8	5
115	Experimental study of absorption band controllable planar metamaterial absorber using asymmetrical snowflake-shaped configuration. Journal of Optics (United Kingdom), 2013, 15, 055104.	2.2	15
116	Analysis of metamaterial absorber in normal and oblique incidence by using interference theory. AIP Advances, 2013, 3, .	1.3	88
117	Multiband Negative Permittivity Metamaterials and Absorbers. Advances in OptoElectronics, 2013, 2013, 1-7.	0.6	7
118	Research of metamaterial absorbers and their rectangular waveguide matching terminal applications based on the electric resonators. Wuli Xuebao/Acta Physica Sinica, 2013, 62, 087801.	0.5	1
119	Metamaterial absorbers realized in an X-band rectangular waveguide. Chinese Physics B, 2012, 21, 117801.	1.4	9
120	Hiding inside an arbitrarily shaped metal pit using homogeneous metamaterials. Journal of Electromagnetic Waves and Applications, 2012, 26, 2315-2322.	1.6	7
121	Configurable metamaterial absorber with pseudo wideband spectrum. Optics Express, 2012, 20, 6616.	3.4	96
122	Compact CPW-fed planar monopole antenna with distinct triple bands for WiFi/WiMAX applications. Electronics Letters, 2012, 48, 357.	1.0	50
123	Dual-Band Negative Permittivity Metamaterial Based on Cross Circular Loop Resonator With Shorting Stubs. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 803-806.	4.0	43
124	Design and Characterization of Tunable Terahertz Metamaterials With Broad Bandwidth and Low Loss. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 264-267.	4.0	21
125	Tunable Dual-Band Negative Refractive Index Metamaterial Consisting of Ferrites and SRR-Wires. Procedia Engineering, 2012, 29, 797-801.	1.2	0
126	The Design and Applications of Tunable Metamaterials. Procedia Engineering, 2012, 29, 802-807.	1.2	7

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127	Tunable broadband metamaterial absorber consisting of ferrite slabs and a copper wire. Chinese Physics B, 2012, 21, 038501.	1.4	51
128	Tunable metamaterials based on ferrites and the applications. , 2012, , .		0
129	WIDEBAND CIRCULARLY POLARIZED UHF RFID READER ANTENNA WITH HIGH GAIN AND WIDE AXIAL RATIO BEAMWIDTHS. Progress in Electromagnetics Research, 2012, 129, 365-385.	4.4	39
130	Single-/dual-band metamaterial absorber based on cross-circular-loop resonator with shorted stubs. Applied Physics A: Materials Science and Processing, 2012, 108, 329-335.	2.3	42
131	Tunable dual-band ferrite-based metamaterials with dual negative refractions. Applied Physics A: Materials Science and Processing, 2012, 106, 79-86.	2.3	38
132	Dual-band Metamaterial Absorber based on Asymmetrical Snowflake-Shaped Resonators. , 2012, , .		0
133	Dual-band Metamaterial Absorber based on Asymmetrical Snowflake-Shaped Resonators. , 2012, , .		0
134	Experimental verification of negative refractive index materials using yttrium iron garnet. , 2010, , .		0
135	Tunneling effect in ferrites based left handed metamaterial. , 2009, , .		0
136	Left handed metamaterial with $\epsilon < 0$; $\mu > 0$; $\epsilon > 0$; $\mu < 0$; and $\epsilon < 0$; $\mu < 0$; $\epsilon > 0$; $\mu > 0$; and some applications. , 2009, , .		1
137	Experimental device of tunable left hand material. , 2009, , .		0