Yongjun Huang

List of Publications by Year
in descending order

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137	2,577	201674	206112
papers	citations	27 h-index	48 g-index

137	137	137	2321
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Broadband Metamaterial Absorbers. Advanced Optical Materials, 2019, 7, 1800995.	7.3	404
2	Chiralityâ€Assisted Highâ€Efficiency Metasurfaces with Independent Control of Phase, Amplitude, and Polarization. Advanced Optical Materials, 2019, 7, 1801479.	7.3	181
3	Polarization-insensitive 3D conformal-skin metasurface cloak. Light: Science and Applications, 2021, 10, 75.	16.6	111
4	Polarization conversion of metasurface for the application of wide band low-profile circular polarization slot antenna. Applied Physics Letters, 2016, 109, .	3.3	106
5	Configurable metamaterial absorber with pseudo wideband spectrum. Optics Express, 2012, 20, 6616.	3.4	96
6	Analysis of metamaterial absorber in normal and oblique incidence by using interference theory. AIP Advances, 2013, 3, .	1.3	88
7	Wavevector and Frequency Multiplexing Performed by a Spinâ€Decoupled Multichannel Metasurface. Advanced Materials Technologies, 2020, 5, 1900710.	5.8	87
8	Experimental demonstration of a magnetically tunable ferrite based metamaterial absorber. Optics Express, 2014, 22, 16408.	3.4	82
9	Spinâ€Encoded Wavelengthâ€Direction Multitasking Janus Metasurfaces. Advanced Optical Materials, 2021, 9, 2100190.	7.3	73
10	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
11	Metamaterial perfect absorber with unabated size-independent absorption. Optics Express, 2018, 26, 20471.	3.4	63
12	Tunable broadband metamaterial absorber consisting of ferrite slabs and a copper wire. Chinese Physics B, 2012, 21, 038501.	1.4	51
13	Compact CPW-fed planar monopole antenna with distinct triple bands for WiFi/WiMAX applications. Electronics Letters, 2012, 48, 357.	1.0	50
14	Mesoscopic chaos mediated by Drude electron-hole plasma in silicon optomechanical oscillators. Nature Communications, 2017, 8, 15570.	12.8	47
15	An integrated low phase noise radiation-pressure-driven optomechanical oscillator chipset. Scientific Reports, 2014, 4, 6842.	3.3	46
16	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
17	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
18	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

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19	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
20	Deterministic Approach to Achieve Full-Polarization Cloak. Research, 2021, 2021, 6382172.	5.7	39
21	Tunable dual-band ferrite-based metamaterials with dual negative refractions. Applied Physics A: Materials Science and Processing, 2012, 106, 79-86.	2.3	38
22	Low-index-metamaterial for gain enhancement of planar terahertz antenna. AIP Advances, 2014, 4, .	1.3	37
23	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
24	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
25	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
26	Electromagnetic Metasurfaces and Reconfigurable Metasurfaces: A Review. Frontiers in Physics, 2021, 8, .	2.1	33
27	A Chipâ€Scale Oscillationâ€Mode Optomechanical Inertial Sensor Near the Thermodynamical Limits. Laser and Photonics Reviews, 2020, 14, 1800329.	8.7	31
28	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
29	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
30	Gain enhancement for wide bandwidth endfire antenna with I â€shaped resonator (ISR) structures. Electronics Letters, 2013, 49, 736-737.	1.0	27
31	Broadband mid-infrared perfect absorber using fractal Gosper curve. Journal Physics D: Applied Physics, 2020, 53, 105106.	2.8	25
32	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
33	Dielectric metasurfaces: From wavefront shaping to quantum platforms. Progress in Surface Science, 2020, 95, 100584.	8.3	23
34	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
35	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
36	Numerical and theoretical analysis on the absorption properties of metasurface-based terahertz absorbers with different thicknesses. Applied Optics, 2015, 54, 299.	1.8	19

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37	Compact and highâ€selectivity microstrip bandpass filter using twoâ€stage twistâ€modified asymmetric splitâ€ring resonators. Electronics Letters, 2015, 51, 635-637.	1.0	16
38	Microwave Airy Beam Generation With Microstrip Patch Antenna Array. IEEE Transactions on Antennas and Propagation, 2021, 69, 2290-2301.	5.1	16
39	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
40	Compact microstrip triplexer based on twistâ€modified asymmetric splitâ€ring resonators. Electronics Letters, 2014, 50, 1712-1713.	1.0	15
41	Broadband circularly polarized square slot antenna with a Gâ€shaped feedline. Microwave and Optical Technology Letters, 2017, 59, 3055-3063.	1.4	14
42	Thermally tunable high-Q metamaterial and sensing application based on liquid metals. Optics Express, 2021, 29, 6069.	3.4	13
43	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
44	A Circularly Polarized Antenna Array with Gain Enhancement for Long-Range UHF RFID Systems. Electronics (Switzerland), 2019, 8, 400.	3.1	11
45	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
46	Nonlinear coupling states study of electromagnetic force actuated plasmonic nonlinear metamaterials. Optics Express, 2018, 26, 3211.	3.4	10
47	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
48	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
49	Metamaterial absorbers realized in an X-band rectangular waveguide. Chinese Physics B, 2012, 21, 117801.	1.4	9
50	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
51	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
52	Dynamics Analysis of a Pair of Ring Resonators in Liquid Media. Physical Review Applied, 2018, 10, .	3.8	9
53	Hiding inside an arbitrarily shaped metal pit using homogeneous metamaterials. Journal of Electromagnetic Waves and Applications, 2012, 26, 2315-2322.	1.6	7
54	The Design and Applications of Tunable Metamaterials. Procedia Engineering, 2012, 29, 802-807.	1.2	7

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55	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
56	Multiband Negative Permittivity Metamaterials and Absorbers. Advances in OptoElectronics, 2013, 2013, 1-7.	0.6	7
57	Synchronization in air-slot photonic crystal optomechanical oscillators. Applied Physics Letters, 2017, 110, .	3.3	7
58	A low-frequency chip-scale optomechanical oscillator with 58â€‰kHz mechanical stiffening and more than 100th-order stable harmonics. Scientific Reports, 2017, 7, 4383.	3.3	7
59	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
60	Multiplexed Metasurfaces: Wavevector and Frequency Multiplexing Performed by a Spinâ€Ðecoupled Multichannel Metasurface (Adv. Mater. Technol. 1/2020). Advanced Materials Technologies, 2020, 5, 2070005.	5.8	7
61	Tunable band notch filters by manipulating couplings of split ring resonators. Applied Optics, 2013, 52, 7517.	1.8	5
62	Compact Microstrip Bandpass Diplexer Based on Twist Revised Split Ring Resonators. International Journal of Antennas and Propagation, 2015, 2015, 1-6.	1.2	5
63	Controllable optomechanical coupling and Drude self-pulsation plasma locking in chip-scale optomechanical cavities. Optics Express, 2017, 25, 6851.	3.4	5
64	Triâ€band planar monopole antenna with two circularly polarised bandwidths for WiMAX applications. IET Microwaves, Antennas and Propagation, 2018, 12, 2350-2355.	1.4	5
65	Propagation range enhancement of truncated airy beam with antenna array at microwave frequencies. , 2018, , .		5
66	Intermittent Magnetic Field Monitoring System Based on Passive RFID Sensor Tags. IEEE Sensors Journal, 2022, 22, 819-831.	4.7	5
67	Research on the reflection-type ELC-based optomechanical metamaterial. Optics Express, 2022, 30, 5498.	3.4	5
68	Dual-Band Notch Filter Based on Twist Split Ring Resonators. International Journal of Antennas and Propagation, 2014, 2014, 1-6.	1.2	4
69	Wideband <scp>SIW</scp><scp>H</scp>â€plane dualâ€ridged endâ€fire antenna for conformal application. Microwave and Optical Technology Letters, 2017, 59, 286-292.	1.4	4
70	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
71	Compact CP antenna based on resonant quadrifilar spiral structure for UHF RFID handheld reader. , 2017, , .		4
72	Compact UHF RFID Tag Antenna for Application of Domestic Animals Management. , 2018, , .		4

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73	38â€GHz SIW filter based on the steppedâ€impedance faceâ€toâ€face Eâ€shaped DGSs for 5G application. Microwave and Optical Technology Letters, 2019, 61, 1500-1504.	1.4	4
74	High-Q Hg-anapole resonator with microstrip line coupling for high-precision temperature sensing applications. Results in Physics, 2021, 24, 104172.	4.1	4
75	High-FOM Temperature Sensing Based on Hg-EIT-Like Liquid Metamaterial Unit. Nanomaterials, 2022, 12, 1395.	4.1	4
76	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
77	ULTRA-COMPACT METAMATERIAL ABSORBER WITH LOW-PERMITTIVITY DIELECTRIC SUBSTRATE. Progress in Electromagnetics Research M, 2015, 41, 25-32.	0.9	3
78	Wideband transition between rectangular waveguide and microstrip using asymmetric fin line probe. Electronics Letters, 2017, 53, 490-492.	1.0	3
79	Design of A Compact Tri-band Omnidirectional Circularly Polarized Antenna. , 2018, , .		3
80	High Efficiency Electromagnetic Energy Harvesting with Metasurface. , 2018, , .		3
81	A Hydrogen Concentration Monitoring System With Passive Tags. IEEE Internet of Things Journal, 2021, 8, 9244-9256.	8.7	3
82	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
83	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
84	A compact and broadband CPW-fed folded-slot antenna for c-band application. , 2017, , .		2
85	On the Generation of Truncated Airy Beams with Antenna Arrays. , 2018, , .		2
86	A High-efficiency Dual-band Wireless Energy Harvesting Circuit. , 2018, , .		2
87	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
88	Millimeter-Wave SIW Filter Based on the Stepped-Impedance Face-to-Face E-Shaped DGSs. , 2019, , .		2
89	Experimental investigations of wave-DSRR interactions in liquid-phase media. Applied Physics Letters, 2019, 114, .	3.3	2
90	A chip-scale sub-Î¼g/Hz1/2 optomechanical DC accelerometer at the thermodynamical limit. , 2016, , .		2

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91	Dual-Mode Microstrip Patch Antennas For Largely Spaced Phased Arrays. , 2020, , .		2
92	Optimization of Large Antenna Arrays for Radiative Wireless Power Transfer. , 2020, , .		2
93	Design of Optical Gyroscope Based on the Cavity Optomechanics Structure. , 2022, , .		2
94	Left handed metamaterial with ε = − ε<inf>0</inf> and μ = − μ<inf>0</inf> and some applications. , 2009, , .		1
95	Tri-band planar monopole antenna with dual band circular polarization. , 2017, , .		1
96	Principle investigation of thermal tunable Hg-metamaterial. , 2017, , .		1
97	Active and Tunable Metamaterials. , 2017, , .		1
98	Low-Profile Ultra-Broadband Log-Period Monopole End-Fire Antenna. International Journal of Antennas and Propagation, 2018, 2018, 1-8.	1.2	1
99	Study on the Characteristics of Mercury-based Electromagnetic Metamaterials and Its Temperature Sensing Technology. , 2019, , .		1
100	Fast and Automatic RF Design Based on MATLAB-HFSS Control Applied on Magnetic Absorber with Metasurface. , 2019, , .		1
101	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
102	Ultrasensitive nanoscale optomechanical electrometer using photonic crystal cavities. Nanophotonics, 2022, .	6.0	1
103	Tunneling effect in ferrites based left handed metamaterial. , 2009, , .		0
104	Experimental device of tunable left hand material. , 2009, , .		0
105	Experimental verification of negative refractive index materials using yttrium iron garnet. , 2010, , .		0
106	Tunable Dual-Band Negative Refractive Index Metamaterial Consisting of Ferrites and SRR-Wires. Procedia Engineering, 2012, 29, 797-801.	1.2	0
107	Tunable metamaterials based on ferrites and the applications. , 2012, , .		0
108	Microwave metamaterial absorber with nλ<inf>0</inf>/2 dielectric thicknesses. , 2014, , .		0

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109	Experimental Analysis of Nonlinear Metamaterials Immerged in Liquid-Phase Medium. , 2018, , .		0
110	Optimization of Circularly Polarized Corner Truncated Patch with Matlab Antenna Toolbox. , 2018, , .		0
111	Wideband Tunable Metamaterials with Magnetic Ferrite and/or Hydrargyrum. , 2018, , .		0
112	Wave-Matter Interaction Analysis of Metamaterial Unit Immerged in Liquid Media. , 2018, , .		0
113	Design of Miniaturized Multi-Protocol UHF RFID Reader Module. , 2018, , .		0
114	High Gain Circularly Polarized Substrate Integrated Coaxial Line Fed Antenna Array for RFID Band. , 2018, , .		0
115	Screw Tightening Monitoring with RFID Passive Tag. , 2018, , .		0
116	Ultra-wideband Active Absorber Based on Multiple Frequency Selective Surface and Magnetic Layers. , 2019, , .		0
117	Ultra-wideband Dual-layer Magnetic Absorber with Active Impedance Matching. , 2019, , .		0
118	Compact Microwave Passive Components Based on the Metamaterial Unit Cells. , 2019, , .		0
119	Numerical demonstrations of thermally tunable metamaterials based on liquid metals. , 2020, , .		0
120	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
121	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
122	Dual-band Metamaterial Absorber based on Asymmetrical Snowflake-Shaped Resonators. , 2012, , .		0
123	Dual-band Metamaterial Absorber based on Asymmetrical Snowflake-Shaped Resonators. , 2012, , .		0
124	A fully integrated chip-scale optomechanical oscillator. , 2014, , .		0
125	Frequency instability and phase noise characterization of an integrated chip-scale optomechanical oscillator. , 2015, , .		0
126	Subharmonics radio-frequency division in chip-scale optomechanical oscillators. , 2015, , .		0

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127	Wide optical force-induced RF dynamic range and 100+ high-order stable mechanics in chip-scale optomechanical cavities. , 2016, , .		0
128	Waveform dynamics in air-slot photonic crystal optomechanical oscillators. , 2017, , .		0
129	Observation of synchronization in air-slot photonic crystal optomechanical oscillator. , 2017, , .		0
130	Nonlinear Metasurface Antenna Radome for Power Protection Application. , 2019, , .		0
131	Experimental Demonstration of Microwave Airy Beam Generation Based on Metasurface. , 2019, , .		0
132	Demonstrations of Tunable High-Q Asymmetrical Liquid Metamaterial. , 2020, , .		0
133	Design and Simulation of Photonic Crystal Optomechanical Two-Axis Differential Accelerometer. , 2021, , .		0
134	Experimental Demonstrations of ELC-type Microwave Optomechanical Metamaterial. , 2021, , .		0
135	Ultra-thin broadband absorber using active non-Foster devices and FSS-magnetic material. , 2021, , .		0
136	Numerical Demonstrations of Beam Reconfigurable Reflective-type Opto-mechanical Metasurface. , 2022, , .		0
137	Research on Lithium Niobate-based Photonic Crystal with Wide Bandgap. , 2022, , .		0