Zhirun Hu

List of Publications by Year
in descending order

78 papers	1,618 citations	394421 19 h-index	345221 36 g-index
79 all docs	79 docs citations	79 times ranked	2010 citing authors

#	Article	IF	Citations
1	Non-Volatile RF Reconfigurable Antenna on Flexible Substrate for Wireless IoT Applications. IEEE Access, 2021, 9, 119395-119401.	4.2	9
2	Miniaturized uni-planar CSRR based quad-band antenna-analysis and investigation. Analog Integrated Circuits and Signal Processing, 2021, 108, 37-44.	1.4	3
3	Broadband and Wide-angle Microwave Metamaterial Absorber with Effective EM Wave Absorption in the S-, C-, X- and Ku-band. , 2021, , .		0
4	Controlling Graphene Sheet Resistance for Broadband Printable and Flexible Artificial Magnetic Conductor-Based Microwave Radar Absorber Applications. IEEE Transactions on Antennas and Propagation, 2021, 69, 8503-8511.	5.1	22
5	Printed Reduced Graphene Oxide based Broadband Radar Absorber with Hybrid absorption. , 2021, , .		0
6	Printed Graphene Broadband and Flexible Artificial Magnetic Conductor Metasurface Microwave Radar Absorbers. , 2021, , .		0
7	Graphene Printed Antenna Array for Wireless Communication Applications. , 2021, , .		2
8	Printed graphene/WS₂ battery-free wireless photosensor on papers. 2D Materials, 2020, 7, 024004.	4.4	51
9	Graphene Printed Flexible and Conformal Array Antenna on Paper Substrate for 5.8GHz Wireless Communications. , 2020, , .		10
10	Characterization and Modeling of Embroidered NFC Coil Antennas for Wearable Applications. IEEE Sensors Journal, 2020, 20, 14501-14513.	4.7	17
11	Ultra-wideband Polarization-insensitive Thin Microwave Absorber Composed of Triple-layer Resistive Surfaces. , 2020, , .		2
12	Deformationâ€Resilient Embroidered Near Field Communication Antenna and Energy Harvesters for Wearable Applications. Advanced Intelligent Systems, 2019, 1, 1900056.	6.1	34
13	Soft Wireless Battery-Free UHF RFID Stretchable Sensor Based on Microfluidic Technology. IEEE Journal of Radio Frequency Identification, 2019, 3, 252-258.	2.3	14
14	On the design of metamaterial radar absorber applying AMC by controlling surface resistance. , 2019, , .		3
15	Screen-Printed Graphite Nanoplate Conductive Ink for Machine Learning Enabled Wireless Radiofrequency-Identification Sensors. ACS Applied Nano Materials, 2019, 2, 6197-6208.	5.0	29
16	Dual Band Graphene Nanoflakes Printed Compact Monopole Antenna for Low Cost WIFI Applications. , 2019, , .		10
17	Graphene Printed UWB Monopole Antenna for Wireless communication applications. , 2019, , .		8
18	Graphene Nanoflakes Printed Dual-band CPW Fed Monopole Antenna for WLAN Applications. , 2019, , .		0

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19	Soft Radio-Frequency Identification Sensors: Wireless Long-Range Strain Sensors Using Radio-Frequency Identification. Soft Robotics, 2019, 6, 82-94.	8.0	17
20	Design and analysis of a compact quad band loaded monopole antenna with independent resonators. International Journal of Microwave and Wireless Technologies, 2018, 10, 479-486.	1.9	14
21	Graphene Oxide Dielectric Permittivity at GHz and Its Applications for Wireless Humidity Sensing. Scientific Reports, 2018, 8, 43.	3.3	81
22	Metamaterial Inspried Long Read Range UHF RFID Tag Antenna. , 2018, , .		2
23	Sustainable production of highly conductive multilayer graphene ink for wireless connectivity and IoT applications. Nature Communications, 2018, 9, 5197.	12.8	206
24	Compact ACSâ€fed CRLH MIMO antenna for wireless applications. IET Microwaves, Antennas and Propagation, 2018, 12, 1021-1025.	1.4	35
25	Analysis and experimental verification of multi-band thin monopole antennas loaded with half-mode CRLH-inspired resonators. Journal of Electromagnetic Waves and Applications, 2018, 32, 1697-1709.	1.6	4
26	Miniaturisation of an electrically small metamaterial inspired antenna using additional conducting layer. IET Microwaves, Antennas and Propagation, 2018, 12, 1444-1449.	1.4	22
27	Analysis and design of a triple band metamaterial simplified CRLH cells loaded monopole antenna. International Journal of Microwave and Wireless Technologies, 2017, 9, 903-913.	1.9	20
28	Design of a compact mimo antenna with asymmetric coplanar stripâ€fed for UWB applications. Microwave and Optical Technology Letters, 2017, 59, 31-36.	1.4	28
29	Design and modeling of back gated graphene based RF switch with CPW transmission line on a high resistivity silicon substrate. , 2017, , .		4
30	Graphene Microwave Resonators. , 2017, , .		1
31	Experimental Demonstration of Printed Graphene Nano-flakes Enabled Flexible and Conformable Wideband Radar Absorbers. Scientific Reports, 2016, 6, 38197.	3.3	43
32	High selectivity microstrip bandpass filter using feedback CRLH-TL unit cell. , 2016, , .		0
33	Low Phase Noise Free-Running Oscillator Based on High Selectivity Bandpass Filter Using Composite Right/Left-Handed Transmission Line. IEEE Microwave and Wireless Components Letters, 2016, 26, 273-275.	3.2	18
34	Miniaturized dual-wideband bandpass filter using coupled slotted open stubs. , 2016, , .		1
35	Highly Flexible and Conductive Printed Graphene for Wireless Wearable Communications Applications. Scientific Reports, 2016, 5, 18298.	3.3	158
36	Shielding effectiveness of screen printed graphene laminate at C band. , 2016, , .		0

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37	Compact metamaterial coplanar waveguide ferrite tunable resonator. IET Microwaves, Antennas and Propagation, 2016, 10, 406-412.	1.4	14
38	Graphene Nanoflakes Printed Flexible Meandered-Line Dipole Antenna on Paper Substrate for Low-Cost RFID and Sensing Applications. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1565-1568.	4.0	155
39	Design of reconfigurable planar antenna using graphene based switch. , 2015, , .		0
40	Miniaturized via-less ultra-wideband bandpass filter based on CRLH-TL unit cell. , 2015, , .		2
41	Binder-free highly conductive graphene laminate for low cost printed radio frequency applications. Applied Physics Letters, 2015, 106, .	3.3	170
42	Design of broadband and tunable terahertz absorbers based on graphene metasurface: equivalent circuit model approach. IET Microwaves, Antennas and Propagation, 2015, 9, 307-312.	1.4	93
43	High gain and steerable Bull's eye millimetre wave antenna. , 2015, , .		2
44	Reconfigurable dipole antenna design using graphene based switich. , 2015, , .		4
45	Composite rightâ€leftâ€handed coplanar waveguide ferrite forward coupledâ€line coupler. IET Microwaves, Antennas and Propagation, 2015, 9, 1104-1111.	1.4	10
46	Graphene reconfigurable coplanar waveguide (CPW)-fed circular slot antenna. , 2015, , .		3
47	Ultra wideband high gain THz plasmonic antenna. , 2014, , .		2
48	Graphene based tunable fractal Hilbert curve array broadband radar absorbing screen for radar cross section reduction. AIP Advances, 2014, 4, .	1.3	50
49	Steerable millimetre-wave plasmonic antenna with elliptical slots. , 2014, , .		0
50	A Novel 6.72GHz Low Phase Noise Voltage-Controlled Oscillator Adopting Metal-Oxide-Metal Capacitors Using 130nm CMOS Technology. , 2013, , .		3
51	Compact passive and active tunable delay lines using complementary splitâ€ring resonators. IET Microwaves, Antennas and Propagation, 2013, 7, 299-305.	1.4	0
52	Miniaturized Composite Right/Left-Handed Stepped-Impedance Resonator Bandpass Filter. IEEE Microwave and Wireless Components Letters, 2012, 22, 400-402.	3.2	37
53	Ultra high gain of plasmonic inspired antenna and its beamforming. , 2012, , .		2
54	B3. Compact and broadband left handed CPW power divider/combiner for C/X bands. , 2012, , .		5

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55	Electrical small meander line patch antenna. , 2012, , .		6
56	Compact half-wavelength metamaterial Stepped Impedance Resonator (SIR). , 2011, , .		9
57	A 60GHz on-chip antenna with meta-material structure. , 2011, , .		0
58	Study of Wideband, Wide Angle, Polarization Independent Metamaterial Hilbert Curve Absorbing Screen for Terahertz Bolometers. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 791-798.	2.2	6
59	Ultra thin low profile U band folded meta-material wideband dipole antenna for multi-Gb/s data transmission using 65 nm CMOS technology. , 2010, , .		1
60	60 GHz meta-material wideband antenna for FPGA Giga bit data transmission. , 2010, , .		0
61	Ferrite tunable metamaterial phase shifter. , 2010, , .		6
62	Compact Tunable Left Handed Ferrite Transformer. Journal of Infrared, Millimeter, and Terahertz Waves, 2009, 30, 813-825.	2.2	8
63	A 3D multilayered Si MMIC left-handed metamaterial bandpass filter. , 2009, , .		5
64	Design and Analysis of Tunable Left Handed Zeroth-Order Resonator on Ferrite Substrate. IEEE Transactions on Magnetics, 2008, 44, 3095-3098.	2.1	23
65	Metamaterial Resonator Based Wave Propagation Notch for Ultrawideband Filter Applications. IEEE Antennas and Wireless Propagation Letters, 2008, 7, 210-212.	4.0	55
66	A Multilayer Compact Solid State Composite Right/Left-Handed Metamaterial Transmission Line. IEEE Electron Device Letters, 2008, 29, 1383-1385.	3.9	2
67	Ferrite-Coupled Coplanar Waveguide. IEEE Transactions on Magnetics, 2008, 44, 3099-3102.	2.1	4
68	On the study of left handed CPW transformer on ferrite substrate. , 2008, , .		2
69	Multilayered metamaterials for Silicon MMIC applications. , 2008, , .		0
70	Compact integrated MMIC left-handed bandpass filter. , 2007, , .		0
71	Investigation of soliton generation in nonlinear left handed transmission lines. , 2007, , .		1
72	On the study of CWP dual band left handed propagation with reciprocal and nonreciprocal characteristics over ferrite substrates. , 2007, , .		12

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73	Applying Negative Permittivity Media to Microstrip Patch Antennas for Harmonic Supression. , 2007, , .		2
74	Microstrip Patch Antenna with Harmonic Suppression using Complementary Split Ring Resonators. , 2007, , .		5
75	Nonreciprocal left handed coplanar waveguide over ferrite substrate with only shunt inductive load. Microwave and Optical Technology Letters, 2007, 49, 2810-2814.	1.4	22
76	Left-Handed Metamaterial Coplanar Waveguide Components and Circuits in GaAs MMIC Technology. IEEE Transactions on Microwave Theory and Techniques, 2007, 55, 1794-1800.	4.6	17
77	Integrated Left-handed Metamaterials for RF/MMIC Miniaturization and Performance Enhancement. , 2006, , .		2
78	High tangential signal sensitivity GaAs planar doped barrier diodes for microwave/millimeter-wave power detector applications. IEEE Microwave and Wireless Components Letters, 2005, 15, 150-152.	3.2	9