Liang Wu

List of Publications by Year
in descending order

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103	1,970	236612	264894
papers	citations	25 h-index	42 g-index

103	103	103	1793
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental demonstration of a transparent graphene millimetre wave absorber with 28% fractional bandwidth at 140 GHz. Scientific Reports, 2014, 4, 4130.	1.6	196
2	Switchable broadband terahertz absorber/reflector enabled by hybrid graphene-gold metasurface. Optics Express, 2017, 25, 7161.	1.7	140
3	Metal-graphene hybrid active chiral metasurfaces for dynamic terahertz wavefront modulation and near field imaging. Carbon, 2020, 163, 34-42.	5.4	113
4	SIW Butler Matrix with Modified Hybrid Coupler for Slot Antenna Array. IEEE Access, 2016, 4, 9561-9569.	2.6	83
5	Experimental Demonstration of Microwave Absorber Using Large-Area Multilayer Graphene-Based Frequency Selective Surface. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3807-3816.	2.9	82
6	Microwave absorption and radiation from large-area multilayer CVD graphene. Carbon, 2014, 77, 814-822.	5.4	68
7	Millimeter-Wave Pattern Reconfigurable Vivaldi Antenna Using Tunable Resistor Based on Graphene. IEEE Transactions on Antennas and Propagation, 2020, 68, 4939-4943.	3.1	62
8	A Double-Layer Wideband Transmitarray Antenna Using Two Degrees of Freedom Elements Around 20 GHz. IEEE Transactions on Antennas and Propagation, 2019, 67, 2798-2802.	3.1	61
9	Electromagnetic shielding and multi-beam radiation with high conductivity multilayer graphene film. Carbon, 2019, 155, 506-513.	5.4	60
10	Compact Microstrip Dual-Band Bandpass Filter Using a Novel Stub-Loaded Quad-Mode Resonator. IEEE Microwave and Wireless Components Letters, 2013, 23, 465-467.	2.0	59
11	Compact Dual-Band Filter Using Defected Stepped Impedance Resonator. IEEE Microwave and Wireless Components Letters, 2008, 18, 674-676.	2.0	50
12	X/Ku Dual-Band Single-Layer Reflectarray Antenna. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 338-342.	2.4	47
13	Circularly Polarized Wearable Antenna With Low Profile and Low Specific Absorption Rate Using Highly Conductive Graphene Film. IEEE Antennas and Wireless Propagation Letters, 2020, 19, 2354-2358.	2.4	47
14	Photoexited switchable metamaterial absorber at terahertz frequencies. Optics Communications, 2015, 344, 125-128.	1.0	45
15	Large angle beam steering THz antenna using active frequency selective surface based on hybrid graphene-gold structure. Optics Express, 2018, 26, 15353.	1.7	38
16	Shorted-Ended Stepped-Impedance Dual-Resonance Resonator and Its Application to Bandpass Filters. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 3209-3215.	2.9	37
17	High-Performance Wireless Ammonia Gas Sensors Based on Reduced Graphene Oxide and Nano-Silver Ink Hybrid Material Loaded on a Patch Antenna. Sensors, 2017, 17, 2070.	2.1	37
18	Tunable Grounded Coplanar Waveguide Attenuator Based on Graphene Nanoplates. IEEE Microwave and Wireless Components Letters, 2019, 29, 330-332.	2.0	36

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19	A Dynamically Tunable Microwave Absorber Based on Graphene. IEEE Transactions on Antennas and Propagation, 2020, 68, 4706-4713.	3.1	35
20	High-Gain SIW Filtering Antenna With Low H-Plane Cross Polarization and Controllable Radiation Nulls. IEEE Transactions on Antennas and Propagation, 2021, 69, 2336-2340.	3.1	35
21	A Double-Layer Highly Efficient and Wideband Transmitarray Antenna. IEEE Access, 2019, 7, 23285-23290.	2.6	34
22	Wideband Dual-Mode Microstrip Filter Using Short-Ended Resonator With Centrally Loaded Inductive Stub. IEEE Transactions on Microwave Theory and Techniques, 2012, 60, 3667-3673.	2.9	31
23	Low-Loss Dual-Polarized Frequency-Selective Rasorber With Graphene-Based Planar Resistor. IEEE Transactions on Antennas and Propagation, 2020, 68, 7439-7446.	3.1	31
24	Flexible and Dynamically Tunable Attenuator Based on Spoof Surface Plasmon Polaritons Waveguide Loaded With Graphene. IEEE Transactions on Antennas and Propagation, 2019, 67, 5582-5589.	3.1	29
25	Design of lowpass filter using a novel split-ring resonator defected ground structure. Microwave and Optical Technology Letters, 2007, 49, 288-291.	0.9	28
26	Miniaturized Half-Mode Fan-Shaped SIW Filter With Extensible Order and Wide Stopband. IEEE Microwave and Wireless Components Letters, 2020, 30, 749-752.	2.0	24
27	Wideband SIW Filtering Antenna With Controllable Radiation Nulls Using Dual-Mode Cavities. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 1799-1803.	2.4	24
28	Miniaturized Periodicity Broadband Absorber With Via-Based Hybrid Metal-Graphene Structure for Large-Angle RCS Reduction. IEEE Transactions on Antennas and Propagation, 2022, 70, 2832-2840.	3.1	24
29	Dynamically Tunable Filtering Attenuator Based on Graphene Integrated Microstrip Resonators. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 5270-5278.	2.9	22
30	Dynamically Tunable Integrated Device for Attenuation, Amplification, and Transmission of SSPP Using Graphene. IEEE Transactions on Antennas and Propagation, 2020, 68, 3953-3962.	3.1	18
31	Transparent electromagnetic shielding enclosure with CVD graphene. Applied Physics Letters, 2016, 109, .	1.5	17
32	Compact Nine-Way Power Divider With Omnidirectional Resistor Based on Graphene Flake. IEEE Microwave and Wireless Components Letters, 2018, 28, 762-764.	2.0	17
33	Beam Manipulation of Antenna With Large Frequency-Scanning Angle Based on Field Confinement of Spoof Surface Plasmon Polaritons. IEEE Transactions on Antennas and Propagation, 2022, 70, 3022-3027.	3.1	17
34	Quadâ€band filter with high skirt selectivity using stubâ€loaded nested dualâ€open loop resonators. Electronics Letters, 2015, 51, 166-168.	0.5	16
35	Flexible wideband power divider with high isolation incorporating spoof surface plasmon polaritons transition with graphene flake. Applied Physics Express, 2019, 12, 022008.	1.1	15
36	Low Profile Reflective Polarization Conversion Metasurface With High Frequency Selectivity. IEEE Transactions on Antennas and Propagation, 2022, 70, 10614-10622.	3.1	15

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37	Dual-frequency-scanning broadband antenna based on Z-shape spoof surface plasmon polaritons. Applied Physics Express, 2019, 12, 084001.	1.1	14
38	A low profile tunable microwave absorber based on graphene sandwich structure and high impedance surface. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22022.	0.8	13
39	Dual-band dual-polarization reconfigurable THz antenna based on graphene. Applied Physics Express, 2020, 13, 075007.	1.1	13
40	A compact hexagonal dualâ€band substrate integrated waveguide filter based on extractedâ€pole technique. Microwave and Optical Technology Letters, 2011, 53, 562-565.	0.9	12
41	Ultra wideband filter design based on composite rightâ€/leftâ€handed transmission line. Microwave and Optical Technology Letters, 2007, 49, 2379-2381.	0.9	11
42	Flexible frequency-selective rasorber based on metal-graphene hybrid metamaterial. Optics Express, 2022, 30, 6566.	1.7	11
43	Design and Validation of Flexible Multilayer Frequency Selective Surface With Transmission Zeros. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 250-254.	2.4	10
44	Dual-Band Antenna With Large Beam Steering Angle Incorporating Endfire and Frequency Scanning Modes Using Double-Layer SSPPs Structure. IEEE Transactions on Antennas and Propagation, 2022, 70, 46-55.	3.1	10
45	Wideband and High-Gain Wearable Antenna Array with Specific Absorption Rate Suppression. Electronics (Switzerland), 2021, 10, 2056.	1.8	10
46	A 15â€“38 GHz Vector-Summing Phase-Shifter With 360Â° Phase-Shifting Range Using Improved I/Q Generator. IEEE Transactions on Circuits and Systems II: Express Briefs, 2021, 68, 3199-3203.	2.2	10
47	Ultrathin and flexible directional coupler with arbitrary coupling level using s-shaped spoof surface plasmon polariton coupled-line. Applied Physics Express, 2019, 12, 054005.	1.1	9
48	Wideband Circularly Polarized Magneto-Electric Dipole $1imes2$ Antenna Array for Millimeter-Wave Applications. IEEE Access, 2020, 8, 27516-27523.	2.6	9
49	Compact sixâ€band triplexer using stubâ€loaded stepped impedance resonators. Electronics Letters, 2014, 50, 1143-1145.	0.5	8
50	Unidirectional invisibility induced by parity-time symmetric circuit. Scientific Reports, 2017, 7, 40575.	1.6	8
51	A Low-Profile Ultrawideband Antenna Based on Flexible Graphite Films for On-Body Wearable Applications. Materials, 2021, 14, 4526.	1.3	8
52	Wideband balun filtering quasiâ€Yagi antenna with high selectivity. Microwave and Optical Technology Letters, 2019, 61, 2336-2341.	0.9	7
53	Dual-band beam steering THz antenna using active frequency selective surface based on graphene. EPJ Applied Metamaterials, 2021, 8, 12.	0.8	7
54	Tunable dualâ€mode dualâ€band filter with constant bandwidth and high selectivity. Microwave and Optical Technology Letters, 2017, 59, 283-285.	0.9	6

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55	Two-Dimensional Highly Sensitive Wireless Displacement Sensor With Bilayer Graphene-Based Frequency Selective Surface. IEEE Sensors Journal, 2021, 21, 23889-23897.	2.4	6
56	A 26â€“31 GHz Linearized Wideband CMOS LNA Using Post-Distortion Technique. IEEE Microwave and Wireless Components Letters, 2022, 32, 1087-1090.	2.0	6
57	A <scp>30â€GHz</scp> lowâ€power <scp>CMOS LNA</scp> for <scp>5G</scp> communication systems. Microwave and Optical Technology Letters, 2021, 63, 746-752.	0.9	5
58	Compact <scp>dualâ€mode</scp> wideband <scp>MIMO</scp> filtering antenna array with high selectivity and improved isolation. International Journal of RF and Microwave Computer-Aided Engineering, 2021, 31, e22497.	0.8	5
59	Controllable Design of Filtering Attenuators Based on Graphene Integrated Dual-Mode Microstrip Resonator. , 2021, , .		5
60	Single-layer absorption-diffusion-integrated metasurface for high-performance radar cross section reduction using hybrid copperâ€“graphene structure. Journal of Applied Physics, 2022, 131, .	1.1	5
61	Novel dual-mode bandpass filter using slot-line square loop resonator. , 2012, , .		4
62	<scp>T</scp>unable dualâ€band filtering power divider with constant bandwidth and high selectivity. Microwave and Optical Technology Letters, 2017, 59, 2813-2816.	0.9	4
63	Doubleâ€layer suspended stripline resonator with high quality factor for baseâ€station diplexer application. Electronics Letters, 2018, 54, 513-515.	0.5	4
64	A Miniaturized SIW Triplexer Based on a Triple-Mode Resonator with Slot Perturbation. , 2019, , .		4
65	Synthesis and Design of Filtering Antenna With Flexible Passband and Radiation Null Based on Parallel Scheme. IEEE Antennas and Wireless Propagation Letters, 2021, 20, 838-842.	2.4	4
66	An Ultrawideband Polarization-Insensitive Diffusion Metasurface Using Period Changed Unit Cell for RCS Reduction. Materials, 2021, 14, 5053.	1.3	4
67	Dual-band filter based on dual-stubs loaded square loop resonator. , 2012, , .		3
68	Material region division and antenna application of monolayer and multilayer graphene. , 2014, , .		3
69	Holographic design of leakyâ€wave antenna with gain controlled four beams. Microwave and Optical Technology Letters, 2019, 61, 638-643.	0.9	3
70	Flexible Microwave Devices and Dual-frequency-scanning Antenna Based on Spoof Surface Plasmon Polaritons. , 2019, , .		3
71	Phase Shift Techniques for Improving Varactor-Less QVCO Based on Rotated-Phase-Tuning. IEEE Transactions on Circuits and Systems II: Express Briefs, 2022, 69, 279-283.	2.2	3
72	A 9.8â€“30.1 GHz CMOS low-noise amplifier with a 3.2-dB noise figure using inductor- and transformer-based gm-boosting techniques. Frontiers of Information Technology and Electronic Engineering, 2021, 22, 586-598.	1.5	3

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73	A CMOS Low-Power Variable-Gain LNA Based on Triple Cascoded Common-Source Amplifiers and Forward-Body-Bias Technology. , 2021, , .		3
74	Via-based miniaturized rasorber using graphene films. Journal of Applied Physics, 2022, 131, 214504.	1.1	3
75	Compact UWB bandpass filter with dual notched bands using cascaded shorted-stub loaded SIRS. , 2013, , .		2
76	Doubleâ€layer microstrip ultraâ€wideband filtering power divider with high selectivity and large isolation. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21726.	0.8	2
77	Dynamically Tunable Four Band Filtering Attenuator Based on Graphene Integrated Microstrip Multi-mode Resonator. , 2019, , .		2
78	A Transformer-based Injection-Locked Frequency Divider in 65-nm CMOS Technology. , 2019, , .		2
79	Graphene-based Beam Steering Antenna. , 2020, , .		2
80	A 22.2-GHz Injection-Locked Frequency Tripler Featuring Dual Injection and 39.4% Locking Range. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 3548-3556.	2.9	2
81	Trisection cross-coupled filter with symmetrical response using split-ring resonator DGS. Microwave and Optical Technology Letters, 2008, 50, 1774-1776.	0.9	1
82	Wideband crossâ€coupled filter using defected stepped impedance resonator. Microwave and Optical Technology Letters, 2010, 52, 558-561.	0.9	1
83	Analytical design of novel tripleâ€passband microwave filters using frequency transformations method. Microwave and Optical Technology Letters, 2011, 53, 2199-2201.	0.9	1
84	Multimode wideband diplexer using openâ€•and shortâ€ended stubâ€loaded hairpin resonator. Microwave and Optical Technology Letters, 2015, 57, 1096-1099.	0.9	1
85	Design of pseudoelliptic filters with controllable transmission zeros using highâ€•Q doubleâ€layer suspended stripline resonators. International Journal of RF and Microwave Computer-Aided Engineering, 2019, 29, e21785.	0.8	1
86	A 21-41 GHz Compact Wideband Low-Noise Amplifier Based on Transformer-Feedback Technique in 65-nm CMOS. , 2020, , .		1
87	A 3.5GHz CMOS Transceiver for Sub-6GHz and Mm-Wave Co-Existed 5G Communication Systems. , 2021, , .		1
88	High selective <scp>parallelâ€scheme</scp> filtering antenna synthesized by transversal coupling matrix. International Journal of RF and Microwave Computer-Aided Engineering, 2022, 32, .	0.8	1
89	A Millimeter-Wave Variable-Gain Power Amplifier With Pâ‚dB Improvement Technique in 65-nm CMOS. IEEE Microwave and Wireless Components Letters, 2022, 32, 1427-1430.	2.0	1
90	Leftâ€handed characteristic analysis of a splitâ€ring resonator defected ground structure transmisson line. Microwave and Optical Technology Letters, 2007, 49, 2599-2602.	0.9	0

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91	A novel quad-band filter using centrally shorted-stub loaded resonator and stepped impedance resonator. , 2012, , .		0
92	Phase variation of multilayer CVD graphene. , 2014, , .		0
93	Realization of graphene-based transparent cylinder shielding enclosure. , 2016, , .		0
94	Tunable quad-band duplexer using short-ended stub-loaded SIR. , 2016, , .		0
95	A High-Q Miniaturized Suspended Stripline Resonator for Pseudoelliptic Filter Design. IEEE Access, 2018, 6, 64784-64789.	2.6	0
96	Compact tunable cavity filter with high selectivity using doubleâ€layer suspended stripline resonator. Microwave and Optical Technology Letters, 2019, 61, 1177-1180.	0.9	0
97	An inline pseudoelliptic selfâ€packaging substrate integrated suspended line filter with mixed electric and magnetic coupling. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22281.	0.8	0
98	A transformerâ€based injectionâ€locked frequency divider. Microwave and Optical Technology Letters, 2021, 63, 2565-2569.	0.9	0
99	Pattern-Reconfigurable Antenna With Three Switchable Beams Based on Graphene. , 2021, , .		0
100	Broadband Leaky-Wave Antenna with Large Scanning Angle Incorporating Spoof Surface Plasmon Polaritons and Graphene. , 2020, , .		0
101	A Low-Profile Omnidirectional Ultra-Wideband Planar Monopole Antenna Based on Highly Conductive Graphene Film. , 2021, , .		0
102	High-Selectivity Bandpass Filter with Controllable Attenuation Based on Graphene Nanoplates. Materials, 2022, 15, 1694.	1.3	0
103	A 6.3-8.7 GHz Phase-Locked Loop in 65nm CMOS. , 2021, , .		0