Sungjoon Lim

List of Publications by Year
in descending order

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218 papers	5,726 citations	70961 41 h-index	102304 66 g-index
220 all docs	220 docs citations	220 times ranked	4165 citing authors

#	Article	IF	Citations
1	Metamaterial-based electronically controlled transmission-line structure as a novel leaky-wave antenna with tunable radiation angle and beamwidth. IEEE Transactions on Microwave Theory and Techniques, 2005, 53, 161-173.	2.9	249
2	Metamaterial-Based Electronically Controlled Transmission-Line Structure as a Novel Leaky-Wave Antenna With Tunable Radiation Angle and Beamwidth. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 2678-2690.	2.9	230
3	Polarization-Independent and Ultrawideband Metamaterial Absorber Using a Hexagonal Artificial Impedance Surface and a Resistor-Capacitor Layer. IEEE Transactions on Antennas and Propagation, 2014, 62, 2652-2658.	3.1	205
4	Complementary Split-Ring Resonator-Loaded Microfluidic Ethanol Chemical Sensor. Sensors, 2016, 16, 1802.	2.1	178
5	Compact Coplanar Waveguide (CPW)-Fed Zeroth-Order Resonant Antennas With Extended Bandwidth and High Efficiency on Vialess Single Layer. IEEE Transactions on Antennas and Propagation, 2011, 59, 363-372.	3.1	172
6	Review of Recent Metamaterial Microfluidic Sensors. Sensors, 2018, 18, 232.	2.1	153
7	Monopole-Like and Boresight Pattern Reconfigurable Antenna. IEEE Transactions on Antennas and Propagation, 2013, 61, 5854-5859.	3.1	152
8	Electronically scanned composite right/left handed microstrip leaky-wave antenna. IEEE Microwave and Wireless Components Letters, 2004, 14, 277-279.	2.0	114
9	Review of Recent Phased Arrays for Millimeter-Wave Wireless Communication. Sensors, 2018, 18, 3194.	2.1	106
10	Angular- and Polarization-Insensitive Metamaterial Absorber Using Subwavelength Unit Cell in Multilayer Technology. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 414-417.	2.4	96
11	Recent advances in noninvasive flexible and wearable wireless biosensors. Biosensors and Bioelectronics, 2019, 141, 111422.	5.3	94
12	Angle- and polarization-insensitive broadband metamaterial absorber using resistive fan-shaped resonators. Applied Physics Letters, 2018, 112, .	1.5	91
13	Incident Angle- and Polarization-Insensitive Metamaterial Absorber using Circular Sectors. Scientific Reports, 2016, 6, 27155.	1.6	89
14	A Study of Ultra-Thin Single Layer Frequency Selective Surface Microwave Absorbers With Three Different Bandwidths Using Double Resonance. IEEE Transactions on Antennas and Propagation, 2015, 63, 221-230.	3.1	88
15	Microfluidic Eighth-Mode Substrate-Integrated-Waveguide Antenna for Compact Ethanol Chemical Sensor Application. IEEE Transactions on Antennas and Propagation, 2016, 64, 3218-3222.	3.1	78
16	Wide Incidence Angle-Insensitive Metamaterial Absorber for Both TE and TM Polarization using Eight-Circular-Sector. Scientific Reports, 2017, 7, 3204.	1.6	77
17	Review of Recent Inkjet-Printed Capacitive Tactile Sensors. Sensors, 2017, 17, 2593.	2.1	77
18	Design of Metamaterial Absorber using Eight-Resistive-Arm Cell for Simultaneous Broadband and Wide-Incidence-Angle Absorption. Scientific Reports, 2018, 8, 6633.	1.6	73

#	Article	IF	Citations
19	Angle- and Polarization-Insensitive Metamaterial Absorber using Via Array. Scientific Reports, 2016, 6, 39686.	1.6	72
20	Novel Multifunctional Reconfigurable Active Frequency Selective Surface. IEEE Transactions on Antennas and Propagation, 2019, 67, 1709-1718.	3.1	70
21	Electrically Small Eighth-Mode Substrate-Integrated Waveguide (EMSIW) Antenna With Different Resonant Frequencies Depending on Rotation of Complementary Split Ring Resonator. IEEE Transactions on Antennas and Propagation, 2013, 61, 4933-4939.	3.1	69
22	Wideband-Switchable Metamaterial Absorber Using Injected Liquid Metal. Scientific Reports, 2016, 6, 31823.	1.6	66
23	High-Q and miniaturized complementary split ring resonator-loaded substrate integrated waveguide microwave sensor for crack detection in metallic materials. Sensors and Actuators A: Physical, 2014, 214, 25-30.	2.0	65
24	Ultrawideband Electromagnetic Absorber Using Sandwiched Broadband Metasurfaces. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1887-1891.	2.4	64
25	A Beam-Steering Antenna With a Fluidically Programmable Metasurface. IEEE Transactions on Antennas and Propagation, 2019, 67, 3704-3711.	3.1	62
26	A Fluidically Tunable Metasurface Absorber for Flexible Large-Scale Wireless Ethanol Sensor Applications. Sensors, 2016, 16, 1246.	2.1	61
27	Frequency-tunable metamaterial absorber using a varactor-loaded fishnet-like resonator. Applied Optics, 2016, 55, 4113.	2.1	61
28	Perforated Lightweight Broadband Metamaterial Absorber Based on 3-D Printed Honeycomb. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2379-2383.	2.4	57
29	Circular/Linear Polarization Reconfigurable Antenna on Simplified RF-MEMS Packaging Platform in K-Band. IEEE Transactions on Antennas and Propagation, 2012, 60, 5039-5045.	3.1	56
30	Flexible liquid metal-filled metamaterial absorber on polydimethylsiloxane (PDMS). Optics Express, 2015, 23, 21375.	1.7	54
31	Electromagnetic-based ethanol chemical sensor using metamaterial absorber. Sensors and Actuators B: Chemical, 2016, 222, 173-180.	4.0	53
32	Bandwidth-enhanced and Wide-angle-of-incidence Metamaterial Absorber using a Hybrid Unit Cell. Scientific Reports, 2017, 7, 14814.	1.6	53
33	Active Frequency Selective Surface to Switch Between Absorption and Transmission Band With Additional Frequency Tuning Capability. IEEE Transactions on Antennas and Propagation, 2019, 67, 6059-6067.	3.1	52
34	A reflectodirective system using a composite right/left-handed (CRLH) leaky-wave antenna and heterodyne mixing. IEEE Microwave and Wireless Components Letters, 2004, 14, 183-185.	2.0	50
35	Frequency-Switchable Metamaterial Absorber Injecting Eutectic Gallium-Indium (EGaIn) Liquid Metal Alloy. Sensors, 2015, 15, 28154-28165.	2.1	47
36	Stretchable Complementary Split Ring Resonator (CSRR)-Based Radio Frequency (RF) Sensor for Strain Direction and Level Detection. Sensors, 2016, 16, 1667.	2.1	46

#	Article	IF	Citations
37	Electronically Switchable Broadband Metamaterial Absorber. Scientific Reports, 2017, 7, 4891.	1.6	46
38	Flexible inkjet-printed metamaterial absorber for coating a cylindrical object. Optics Express, 2015, 23, 5898.	1.7	44
39	Fluidically Reconfigurable Multifunctional Frequency-Selective Surface With Miniaturization Characteristic. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 3857-3865.	2.9	43
40	Microfluidic tunable inkjet-printed metamaterial absorber on paper. Optics Express, 2015, 23, 110.	1.7	42
41	A Multifunctional Reconfigurable Frequency-Selective Surface Using Liquid-Metal Alloy. IEEE Transactions on Antennas and Propagation, 2018, 66, 4953-4957.	3.1	42
42	Microfluidic Biosensor Based on Microwave Substrate-Integrated Waveguide Cavity Resonator. Journal of Sensors, 2018, 2018, 1-13.	0.6	41
43	Recent advances in the metamaterial-inspired biosensors. Biosensors and Bioelectronics, 2018, 117, 398-402.	5.3	41
44	Microfluidically Polarization-Switchable Metasurfaced Antenna. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 2255-2259.	2.4	40
45	Electrically Small Dual-Band Reconfigurable Complementary Split-Ring Resonator (CSRR)-Loaded Eighth-Mode Substrate Integrated Waveguide (EMSIW) Antenna. IEEE Transactions on Antennas and Propagation, 2014, 62, 2368-2373.	3.1	39
46	Silver Nanoparticle-Based Inkjet-Printed Metamaterial Absorber on Flexible Paper. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1718-1721.	2.4	39
47	60 GHz Compact Larger Beam Scanning Range PCB Leaky-Wave Antenna Using HMSIW for Millimeter-Wave Applications. IEEE Transactions on Antennas and Propagation, 2020, 68, 5816-5826.	3.1	39
48	Frequency-Tunable Compact Antenna Using Quarter-Mode Substrate Integrated Waveguide. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1606-1609.	2.4	36
49	Microfluidic High-Q Circular Substrate-Integrated Waveguide (SIW) Cavity for Radio Frequency (RF) Chemical Liquid Sensing. Sensors, 2018, 18, 143.	2.1	36
50	Review on recent origami inspired antennas from microwave to terahertz regime. Materials and Design, 2021, 198, 109345.	3.3	35
51	Low-Cost Circularly Polarized Origami Antenna. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 2026-2029.	2.4	34
52	Miniaturized Metamaterial Absorber Using Three-Dimensional Printed Stair-Like Jerusalem Cross. IEEE Access, 2018, 6, 43654-43659.	2.6	34
53	Stretchable Metamaterial Absorber Using Liquid Metal-Filled Polydimethylsiloxane (PDMS). Sensors, 2016, 16, 521.	2.1	33
54	Low-Cost and Lightweight 3D-Printed Split-Ring Resonator for Chemical Sensing Applications. Sensors, 2018, 18, 3049.	2.1	33

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55	Microwave Chemical Sensor Using Substrate-Integrated-Waveguide Cavity. Sensors, 2016, 16, 1829.	2.1	31
56	Millimeter-Wave Continuous Transverse Stub (CTS) Antenna Array Using Substrate Integrated Waveguide (SIW) Technology. IEEE Transactions on Antennas and Propagation, 2014, 62, 5497-5503.	3.1	30
57	Metamaterial Inspired Radio Frequency-Based Touchpad Sensor System. IEEE Transactions on Instrumentation and Measurement, 2020, 69, 1344-1352.	2.4	30
58	Four-Mode Programmable Metamaterial Using Ternary Foldable Origami. ACS Applied Materials & Interfaces, 2019, 11, 28554-28561.	4.0	29
59	Thermal Frequency Reconfigurable Electromagnetic Absorber Using Phase Change Material. Sensors, 2018, 18, 3506.	2.1	28
60	Broadband frequency-reconfigurable metamaterial absorber using switchable ground plane. Scientific Reports, 2018, 8, 9226.	1.6	28
61	A Deployable Quasi-Yagi Monopole Antenna Using Three Origami Magic Spiral Cubes. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 147-151.	2.4	28
62	Frequency Tunable Metamaterial Absorber Using Hygroscopicity of Nature Cork. IEEE Antennas and Wireless Propagation Letters, 2015, 14, 1598-1601.	2.4	26
63	Reconfigurable Metasurfaces for Frequency Selective Absorption. Advanced Optical Materials, 2020, 8, 1902182.	3.6	26
64	Compact Frequency-Reconfigurable Half-Mode Substrate-Integrated Waveguide Antenna. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 951-954.	2.4	25
65	Active metasurface for controlling reflection and absorption properties. Applied Physics Express, 2014, 7, 112204.	1.1	25
66	Simultaneous Detection of Two Chemicals Using a TE20-Mode Substrate-Integrated Waveguide Resonator. Sensors, 2018, 18, 811.	2.1	25
67	Complementary Split-Ring Resonator (CSRR)-Loaded Sensor Array to Detect Multiple Cracks: Shapes, Sizes, and Positions on Metallic Surface. IEEE Access, 2020, 8, 151804-151816.	2.6	25
68	A Dual Band Frequency Reconfigurable Origami Magic Cube Antenna for Wireless Sensor Network Applications. Sensors, 2017, 17, 2675.	2.1	24
69	Frequency-Reconfigurable Antenna Inspired by Origami Flasher. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1691-1695.	2.4	24
70	Transformation from 2D meta-pixel to 3D meta-pixel using auxetic kirigami for programmable multifunctional electromagnetic response. Extreme Mechanics Letters, 2020, 36, 100670.	2.0	24
71	Miniaturized Circular Polarized TE<formula formulatype="inline"> <tex Notation="TeX">$_{10}$</tex></formula>-Mode Substrate-Integrated-Waveguide Antenna. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 658-661.	2.4	23
72	A Novel High-Gain Tetrahedron Origami. IEEE Antennas and Wireless Propagation Letters, 2017, 16, 848-851.	2.4	22

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73	Subwavelength Metamaterial Unit Cell for Low-Frequency Electromagnetic Absorber Applications. Scientific Reports, 2018, 8, 16774.	1.6	22
74	Flexible subterahertz metamaterial absorber fabrication using inkjet printing technology. Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	21
75	TM02 Quarter-Mode Substrate-Integrated Waveguide Resonator for Dual Detection of Chemicals. Sensors, 2018, 18, 1964.	2.1	21
76	Review of reconfigurable substrate-integrated-waveguide antennas. Journal of Electromagnetic Waves and Applications, 2014, 28, 1815-1833.	1.0	20
77	A Novel Fluid-Reconfigurable Advanced and Delayed Phase Line Using Inkjet-Printed Microfluidic Composite Right/Left-Handed Transmission Line. IEEE Microwave and Wireless Components Letters, 2015, 25, 142-144.	2.0	20
78	Inkjet-Printed Electromagnet-Based Touchpad Using Spiral Resonators. Journal of Microelectromechanical Systems, 2016, 25, 947-953.	1.7	20
79	V-Band End-Fire Radiating Planar Micromachined Helical Antenna Using Through-Glass Silicon Via (TGSV) Technology. IEEE Access, 2019, 7, 87907-87915.	2.6	20
80	Tunable Higher Order Mode-Based Dual-Beam CRLH Microstrip Leaky-Wave Antenna for V-Band Backwardâ€“Broadsideâ€“Forward Radiation Coverage. IEEE Transactions on Antennas and Propagation, 2020, 68, 6912-6922.	3.1	20
81	SRR- and CSRR-loaded ultra-wideband (UWB) antenna with tri-band notch capability. Journal of Electromagnetic Waves and Applications, 2013, 27, 2190-2197.	1.0	19
82	Review of Electromagnetic-Based Crack Sensors for Metallic Materials (Recent Research and Future) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	1.0	19
83	A Stretchable Radio-Frequency Strain Sensor Using Screen Printing Technology. Sensors, 2016, 16, 1839.	2.1	19
84	A Stretchable Electromagnetic Absorber Fabricated Using Screen Printing Technology. Sensors, 2017, 17, 1175.	2.1	19
85	Meta-Dome for Broadband Radar Absorbing Structure. Scientific Reports, 2018, 8, 17893.	1.6	19
86	Fluidically Switchable Metasurface for Wide Spectrum Absorption. Scientific Reports, 2018, 8, 10169.	1.6	19
87	Inkjet printed kirigami inspired split ring resonator for disposable, low cost strain sensor applications. Smart Materials and Structures, 2020, 29, 015016.	1.8	19
88	Dynamically Self-Reconfigurable Multifunctional All-Passive Metasurface. ACS Applied Materials & Interfaces, 2020, 12, 42393-42402.	4.0	19
89	Directivity and Diversity Dual-Mode Stacked Antenna Array Using Directors of Yagiâ€“Uda Antenna as Monopole Antennas. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 575-578.	2.4	18
90	A Miniaturized Bandpass Frequency Selective Surface Exploiting Three-Dimensional Printing Technique. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1322-1326.	2.4	18

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91	Hybrid (3D and inkjet) printed electromagnetic pressure sensor using metamaterial absorber. Additive Manufacturing, 2020, 35, 101405.	1.7	18
92	Lowâ€cost metamaterial absorber using threeâ€dimensional circular truncated cone. Microwave and Optical Technology Letters, 2018, 60, 1622-1630.	0.9	17
93	High-Gain Conical-Beam Planar Antenna for Millimeter-Wave Drone Applications. IEEE Transactions on Antennas and Propagation, 2021, 69, 6959-6964.	3.1	17
94	Pattern Switchable Antenna System Using Inkjet-Printed Directional Bow-Tie for Bi-Direction Sensing Applications. Sensors, 2015, 15, 31171-31179.	2.1	16
95	Paper-Based Capacitive Touchpad Using Home Inkjet Printer. Journal of Display Technology, 2016, 12, 1411-1416.	1.3	16
96	Frequency-Switchable Microfluidic CSRR-Loaded QMSIW Band-Pass Filter Using a Liquid Metal Alloy. Sensors, 2017, 17, 699.	2.1	16
97	High Gain and Wideband Metasurfaced Magnetoelectric Antenna for WiGig Applications. IEEE Transactions on Antennas and Propagation, 2021, 69, 1140-1145.	3.1	16
98	Leakyâ€wave antenna design using quarterâ€mode substrateâ€integrated waveguide. Microwave and Optical Technology Letters, 2015, 57, 1234-1236.	0.9	15
99	Textile metamaterial absorber using screen printed chanel logo. Microwave and Optical Technology Letters, 2017, 59, 1424-1427.	0.9	15
100	Dual-Band Band-Pass Filter with Fixed Low Band and Fluidically-Tunable High Band. Sensors, 2017, 17, 1884.	2.1	15
101	Liquid-Metal-Fluidically Switchable Metasurface for Broadband and Polarization-Insensitive Absorption. IEEE Access, 2018, 6, 40854-40859.	2.6	15
102	Recent progress in angle-insensitive narrowband and broadband metamaterial absorbers. EPJ Applied Metamaterials, 2019, 6, 12.	0.8	15
103	Lowâ€cost and miniaturized metamaterial absorber using 3D printed swastika symbol. Microwave and Optical Technology Letters, 2020, 62, 1709-1715.	0.9	15
104	Foldable thin electro-textile antenna array for 4 Ã— 4 multiple-input multiple-output mobile router applications. Journal of Electromagnetic Waves and Applications, 2015, 29, 375-385.	1.0	14
105	All-Dielectric Transparent Metamaterial Absorber With Encapsulated Water. IEEE Access, 2020, 8, 175998-176004.	2.6	14
106	(40 to 65) GHz Higher Order Mode Microstrip-Based Dual Band Dual Beam Tunable Leaky-Wave Antenna for Millimeter Wave Applications. IEEE Transactions on Antennas and Propagation, 2020, 68, 7255-7265.	3.1	14
107	Novel Capacitor-Loaded Substrate-Integrated-Waveguide Structure and Its Electronically Controlled Leaky-Wave Antenna Application. Electromagnetics, 2014, 34, 585-592.	0.3	13
108	Mechanically actuated frequency reconfigurable metamaterial absorber. Sensors and Actuators A: Physical, 2019, 299, 111619.	2.0	13

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109	Multi-functional thermal-mechanical anisotropic metasurface with shape memory alloy actuators. Materials and Design, 2022, 216, 110569.	3.3	13
110	Novel ethanol chemical sensor using microfluidic metamaterial. , 2015, , .		12
111	Microfluidically Frequency-Reconfigurable Quasi-Yagi Dipole Antenna. Sensors, 2018, 18, 2935.	2.1	12
112	Thermally Beam-Direction- and Beamwidth-Switchable Monopole Antenna Using Origami Reflectors With Smart Shape Memory Polymer Hinges. IEEE Antennas and Wireless Propagation Letters, 2019, 18, 1696-1700.	2.4	12
113	Twoâ€Đimensional Electromechanically Transformable Metasurface with Beam Scanning Capability Using Four Independently Controllable Shape Memory Alloy Axes. Advanced Optical Materials, 2020, 8, 2001180.	3.6	12
114	Electrically Conformal Antenna Array With Planar Multipole Structure for 2-D Wide Angle Beam Steering. IEEE Access, 2020, 8, 157261-157269.	2.6	12
115	Switchable Composite Right/Left-Handed (S-CRLH) Transmission Line Using MEMS Switches. IEEE Microwave and Wireless Components Letters, 2009, 19, 804-806.	2.0	11
116	Transformation from a Single Antenna to a Series Array Using Push/Pull Origami. Sensors, 2017, 17, 1968.	2.1	11
117	Bioinspired DNA Origami Quasi-Yagi Helical Antenna with Beam Direction and Beamwidth Switching Capability. Scientific Reports, 2019, 9, 14312.	1.6	11
118	Switchable Bandpass/Bandstop Filter Using Liquid Metal Alloy as Fluidic Switch. Sensors, 2019, 19, 1081.	2.1	11
119	Frequency reconfigurable antenna actuated by three-storey tower kirigami. Extreme Mechanics Letters, 2020, 39, 100833.	2.0	11
120	Millimeter-Wave-Based Spoof Localized Surface Plasmonic Resonator for Sensing Glucose Concentration. Biosensors, 2021, 11, 358.	2.3	11
121	Electromechanically Deployable High-Gain Pop-Up Antenna Using Shape Memory Alloy and Kirigami Technology. IEEE Access, 2020, 8, 225210-225218.	2.6	11
122	Low-Profile Pattern-Reconfigurable Antenna with Vertical and Horizontal Shorting Lines in Grounded CPW Technology. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1589-1592.	2.4	10
123	Frequency-switchable half-mode substrate-integrated waveguide antenna injecting eutectic gallium indium (EGaIn) liquid metal alloy. Journal of Electromagnetic Waves and Applications, 2015, 29, 2207-2215.	1.0	10
124	Military field deployable antenna using origami. , 2017, , .		10
125	Planar Inverted-F Antenna (PIFA) Using Microfluidic Impedance Tuner. Sensors, 2018, 18, 3176.	2.1	10
126	Electronically-controlled metamaterial-based transmission line as a continuous-scanning leaky-wave antenna. , 0, , .		9

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127	Ultra-wideband tunable resonator based on varactor-loaded complementary split- ring resonators on a substrate-integrated waveguide for microwave sensor applications [Letters]. IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control, 2013, 60, 657-660.	1.7	9
128	Compact right-angled triangle-shaped eighth-mode substrate-integrated waveguide antenna. Microwave and Optical Technology Letters, 2015, 57, 690-694.	0.9	9
129	Stretchable screen-printed metasurfaces for wireless strain sensing applications. Extreme Mechanics Letters, 2020, 41, 100998.	2.0	9
130	Design and Analysis of Active Metamaterial Modulated by RF Power Level. Scientific Reports, 2020, 10, 8703.	1.6	9
131	Gain-Enhanced Metamaterial Absorber-Loaded Monopole Antenna for Reduced Radar Cross-Section and Back Radiation. Materials, 2020, 13, 1247.	1.3	9
132	Via-Monopole Based Quasi Yagi-Uda Antenna for W-Band Applications using Through Glass Silicon via (TGSV) Technology. IEEE Access, 2020, 8, 9513-9519.	2.6	9
133	Mechanical and Selfâ€Deformable Spatial Modulation Beam Steering and Splitting Metasurface. Advanced Optical Materials, 2021, 9, 2100821.	3.6	9
134	60 GHz Electronically Tunable Leaky-Wave Antenna Based on Annular Surface Plasmon Polariton Media for Continuous Azimuth Scanning. IEEE Transactions on Antennas and Propagation, 2022, 70, 10017-10031.	3.1	9
135	Dipoleâ€and loopâ€mode switchable origami paper antenna. Microwave and Optical Technology Letters, 2016, 58, 668-672.	0.9	8
136	Planar quasiâ€isotropic antenna for drone communication. Microwave and Optical Technology Letters, 2018, 60, 1290-1295.	0.9	8
137	Liquidâ€metalâ€fluidically polarization reconfigurable microstrip patch antenna. Microwave and Optical Technology Letters, 2019, 61, 2306-2314.	0.9	8
138	Low-Loss and Light Substrate Integrated Waveguide Using 3D Printed Honeycomb Structure. Materials, 2019, 12, 402.	1.3	8
139	A multiple liquid metal switching mechanism in a single flow microfluidic channel as a reconfigurable bandpass filter. Physics of Fluids, 2020, 32, .	1.6	8
140	Four-Dimensional Printed Shape Memory Metasurface to Memorize Absorption and Reflection Functions. ACS Applied Materials & Interfaces, 2021, 13, 59487-59496.	4.0	8
141	Ultrawideband compact Uâ€shaped antenna with inserted narrow strip and inverted Tâ€shaped slot. Microwave and Optical Technology Letters, 2014, 56, 2265-2269.	0.9	7
142	High-efficiency and compact metamaterial-inspired 900ÂMHz rectifier. Journal of Microwave Power and Electromagnetic Energy, 2016, 50, 168-181.	0.4	7
143	Frequency-Tunable Electromagnetic Absorber by Mechanically Controlling Substrate Thickness. International Journal of Antennas and Propagation, 2018, 2018, 1-7.	0.7	7
144	Bi-Directional Loop Antenna Array Using Magic Cube Origami. Sensors, 2019, 19, 3911.	2.1	7

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145	Rotational Kirigami Tessellation Metasurface for Tunable Chirality. Advanced Materials Technologies, 2022, 7, .	3.0	7
146	Frequency reconfigurable metamaterial resonant antenna. , 2009, , .		6
147	Multi-Beam Leaky-Wave Antenna: Design, Analysis, and Experiments. Electromagnetics, 2011, 31, 247-257.	0.3	6
148	Switchable electromagnetic metamaterial reflector/absorber. , 2012, , .		6
149	Compact magnetic coupled resonator with high efficiency during misaligned wireless power transmission. Journal of Electromagnetic Waves and Applications, 2013, 27, 1942-1948.	1.0	6
150	Reusable EGaIn-Injected Substrate-Integrated-Waveguide Resonator for Wireless Sensor Applications. Sensors, 2015, 15, 28563-28573.	2.1	6
151	A Compact Crossed Inverted-V Antenna with a Common Reflector for Polarization Diversity in the IoT. Electronics (Switzerland), 2019, 8, 637.	1.8	6
152	Low Loss Substrate-Integrated Waveguide Using 3D-Printed Non-Uniform Honeycomb-Shaped Material. IEEE Access, 2020, 8, 191090-191099.	2.6	6
153	Additively manufactured electromagnetic based planar pressure sensor using substrate integrated waveguide technology. Additive Manufacturing, 2020, 34, 101225.	1.7	6
154	DNA-inspired frequency reconfigurable origami antenna using segmented rotation technique. Smart Materials and Structures, 2021, 30, 015004.	1.8	6
155	Electric and Magnetic Mode-Switchable Dual Antenna for Null Compensation. IEEE Antennas and Wireless Propagation Letters, 2013, 12, 300-303.	2.4	5
156	Tunable Bandâ€Pass Filters Based on Varactorâ€Loaded Complementary Splitâ€Ring Resonators on Halfâ€Mode Substrate Integrated Waveguide. Microwave and Optical Technology Letters, 2013, 55, 2458-2460.	0.9	5
157	2.4-GHz High-Efficiency Rectenna Using an In-Phase Partially Reflective Surface and High-Order Harmonic Reject Bandpass Filter. Electromagnetics, 2014, 34, 463-473.	0.3	5
158	Inkjetâ€printed 3<scp>D H</scp>ilbertâ€curve fractal antennas for <scp>VHF</scp> band. Microwave and Optical Technology Letters, 2017, 59, 1698-1704.	0.9	5
159	Simplified Approach to Detect Dielectric Constant Using a Low-Cost Microfluidic Quarter Mode Substrate-Integrated Waveguide. Sensors, 2020, 20, 4985.	2.1	5
160	Dynamic phase control with printing and fluidic materials' interaction by inkjet printing an RF sensor directly on a stereolithographic 3D printed microfluidic structure. Lab on A Chip, 2021, 21, 4364-4378.	3.1	5
161	Hydrodynamic metasurface for programming electromagnetic beam scanning on the Azimuth and elevation planes. Microsystems and Nanoengineering, 2022, 8, 43.	3.4	5
162	Polarization reconfigurable antenna on RF-MEMS packaging platform. , 2009, , .		4

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163	Small Zeroth-Order Resonant Antennas on Spiral-Slotted Ground Plane. Electromagnetics, 2012, 32, 145-154.	0.3	4
164	Complementary Split Ring Resonator (CSRR)-Loaded Substrate Integrated Waveguide (SIW) Metamaterial Antenna. IEICE Transactions on Communications, 2012, E95-B, 304-307.	0.4	4
165	Lowâ€profile planar roofâ€mounted vehicle antenna for monopole vertical polarization reception. Microwave and Optical Technology Letters, 2012, 54, 91-94.	0.9	4
166	Flexible inkjet-printed metamaterial paper absorber. , 2014, , .		4
167	Electrically small dual-band substrate-integrated-waveguide antenna with fixed low-frequency and tunable high-frequency bands. IEICE Electronics Express, 2014, 11, 20140007-20140007.	0.3	4
168	Review of Batteryless Wireless Sensors Using Additively Manufactured Microwave Resonators. Sensors, 2017, 17, 2068.	2.1	4
169	Annular Surface Plasmon Polariton-Based Frequency-Scanning Leaky-Wave Antenna for Full Azimuth Coverage. IEEE Transactions on Antennas and Propagation, 2022, 70, 180-188.	3.1	4
170	Electromagnetic Control by Actuating Kirigami-Inspired Shape Memory Alloy: Thermally Reconfigurable Antenna application. Sensors, 2021, 21, 3026.	2.1	4
171	Small antenna using 2-D interdigital composite right/left-handed (CRLH) transmission lines. , 2008, , .		3
172	Miniaturized Half-Mode Substrate Integrated Waveguide Bandpass Filter Loaded with Double-Sided Complementary Split-Ring Resonators. Electromagnetics, 2012, 32, 200-208.	0.3	3
173	Silicon-based substrate-integrated waveguide-based tunable band-pass filter using interdigital MEMS capacitor. , 2013, , .		3
174	Enhanced-Gain Planar Substrate-Integrated Waveguide Cavity-Backed Slot Antenna with Rectangular Slot Window on Superstrate. ETRI Journal, 2014, 36, 1062-1065.	1.2	3
175	Fabrication of microstrip patch antenna using novel hybrid printing technology. Microwave and Optical Technology Letters, 2016, 58, 2602-2606.	0.9	3
176	Bandwidth enhancement of metamaterial absorber using double resonance. , 2017, , .		3
177	Broadband Frequency Reconfigurable Metamaterial Absorber using Switchable Ground Plane. , 2018, , .		3
178	Optically Transparent Metamaterial Absorber Using Inkjet Printing Technology. Materials, 2019, 12, 3406.	1.3	3
179	Control of rejection frequency and density of output spectrum by programming nonuniform two channels with ternary fluidic system. Smart Materials and Structures, 2021, 30, 035028.	1.8	3
180	Novel arbitrary angle leaky-wave reflector using heterodyne mixing. , 0, , .		2

#	Article	IF	Citations
181	A novel broadband co-planar waveguide (CPW) zeroth order resonant antenna. , 2009, , .		2
182	Low-Profile Automotive Antenna for Omnidirectional Vertical Polarized Signal Reception. Electromagnetics, 2012, 32, 481-494.	0.3	2
183	High efficient misaligned wireless power transfer using magnetic resonant coupling and additional capacitor. , 2012, , .		2
184	Pattern reconfigurable antenna for adaptive multi-input multi-output switching applications. , 2012, , .		2
185	Frequency reconfigurable zerothâ€order resonant antenna using RF MEMS switch. Microwave and Optical Technology Letters, 2012, 54, 1266-1269.	0.9	2
186	Flexible reconfigurable metamaterial absorber injecting EGaIn. , 2016, , .		2
187	Bistate Frequency Selective Surface based on Microfluidic Technology. , 2018, , .		2
188	A rotary transformable kirigami-inspired metasurface for broadband electromagnetic absorption using additive manufacturing technology. Smart Materials and Structures, 2021, 30, 075002.	1.8	2
189	Novel Arbitrary Angle Leaky-Wave Reflector using Heterodyne Mixing. , 2003, , .		1
190	Novel reconfigurable leaky-wave aperture with tunable directivity. , 0, , .		1
191	Electronically switchable metasurface for absorption and reflection modes. , 2014, , .		1
192	Frequency switchable origami magic cube antenna. , 2017, , .		1
193	Microfluidic dual-band bandpass filter. , 2017, , .		1
194	Absorber/Reflector Switchable Metamaterial with Polarization-Selectivity. , 2018, , .		1
195	A Novel DNA Inspired Mode and Frequency Reconfigurable Origami Helical Antenna. , 2018, , .		1
196	A Novel Bio-Inspired Quasi-Yagi Helical Antenna with Beam Direction and Beamwidth Switching Capability using Origami DNA. , 2019, , .		1
197	Beamâ€Steering Metasurface: Twoâ€Dimensional Electromechanically Transformable Metasurface with Beam Scanning Capability Using Four Independently Controllable Shape Memory Alloy Axes (Advanced) Tj ETQq1 1 0.784314 rgBT /Ov		1
198	Batteryless and Self-Reconfigurable Multimode RF Network using All-Passive Energy Smart-Sensing. IEEE Access, 2021, 9, 45683-45694.	2.6	1

#	Article	IF	Citations
199	A Compact Multiband Circularly Polarized Antenna Exploiting Meander Geometry. , 2021, , .		1
200	Thermally reconfigurable helical shape memory alloyâ€“based metamaterial. Electronics Letters, 2022, 58, 8-9.	0.5	1
201	Mechanical and Selfâ€Ðeformable Spatial Modulation Beam Steering and Splitting Metasurface (Advanced Optical Materials 19/2021). Advanced Optical Materials, 2021, 9, 2170077.	3.6	1
202	Half-mode SIW based tunable CRLH leaky-wave antenna for emerging 5G applications. , 2019, , .		1
203	40-65 GHz Dual-beam Dual-Band Tunable Microstrip CRLH Leaky-wave Antenna. , 2020, , .		1
204	Three-dimensional printed and fluidic dielectric material optically transparent metasurface for switchable absorption and reflection functionality in microwave frequency region. Waves in Random and Complex Media, 0, , 1-15.	1.6	1
205	Constant-frequency voltage-scanned reflecto-directive system. , 2004, , .		0
206	Multibeam leakyâ€wave antenna using slot and metasurface. Microwave and Optical Technology Letters, 2010, 52, 2759-2762.	0.9	0
207	Low-profile internal automotive antenna for WiBro vertical polarized signal reception. , 2010, , .		0
208	Millimeter-wave filter using novel micromachined substrate integrated waveguide structure with embedded silicon vias in BCB dilectrics. , 2011, , .		0
209	Novel Co-planar Waveguide (CPW)-Fed Small Antenna with Circular Polarization. IEICE Transactions on Communications, 2011, E94-B, 2141-2144.	0.4	0
210	Twoâ€dimensional nearâ€field focusing screen using nonuniform rectangular holes. Microwave and Optical Technology Letters, 2013, 55, 391-393.	0.9	0
211	Highâ€directivity onâ€glass window antenna using a seeâ€through reflector. IET Microwaves, Antennas and Propagation, 2014, 8, 1294-1298.	0.7	0
212	Paper-based pattern switchable antenna using inkjet-printing technology. , 2015, , .		0
213	Wide frequency switchable microwave resonator by injecting eutectic gallium indium into microfluidic defected ground structure. Microwave and Optical Technology Letters, 2019, 61, 2405-2409.	0.9	0
214	Scattering Control of Electromagnetic Waves via Space-Modulation Metasurface. , 2021, , .		0
215	Active Frequency Selective Surface with Simultaneous Absorption/Transmission Mode Switching and Frequency Tuning Characteristic. , 2019, , .		0
216	Kirigami Inspired Inkjet-Printed Split Ring Resonator as a Disposable, Low Cost Strain Sensor. , 2020, , .		0

#	Article	IF	Citations
217	Self-Reconfigurable Dual-Mode Metasurface. , 2020, , .		0
218	Fluidically Scanned Two-Dimensional (2-D) Meta-Fluidic Antenna. , 2020, , .		0