

# Shih-Yuan Chen

## List of Publications by Year in descending order

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109  
papers

1,207  
citations

471061

17  
h-index

414034

32  
g-index

109  
all docs

109  
docs citations

109  
times ranked

974  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Differential-Mode Wideband Bandpass Filter With Enhanced Common-Mode Suppression Using Slotline Resonator. IEEE Microwave and Wireless Components Letters, 2012, 22, 503-505.	2.0	111
2	CPW-fed folded-slot antenna for 5.8GHz RFID tags. Electronics Letters, 2004, 40, 1516.	0.5	89
3	Balanced-to-Unbalanced Bandpass Filters and the Antenna Application. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2474-2482.	2.9	88
4	Isosceles Triangular Slot Antenna for Broadband Dual Polarization Applications. IEEE Transactions on Antennas and Propagation, 2009, 57, 3347-3351.	3.1	63
5	Uiplanar Log-Periodic Slot Antenna Fed by a CPW for UWB Applications. IEEE Antennas and Wireless Propagation Letters, 2006, 5, 256-259.	2.4	57
6	CPW-Fed Aperture-Coupled Slot Dipole Antenna for Tri-Band Operation. IEEE Antennas and Wireless Propagation Letters, 2008, 7, 535-537.	2.4	55
7	Integrated Dual Planar Inverted-F Antenna With Enhanced Isolation. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 963-965.	2.4	52
8	Efficient Structure Resonance Energy Transfer from Microwaves to Confined Acoustic Vibrations in Viruses. Scientific Reports, 2016, 5, 18030.	1.6	50
9	Broad-band radial slot antenna fed by coplanar waveguide for dual-frequency operation. IEEE Transactions on Antennas and Propagation, 2005, 53, 3448-3452.	3.1	48
10	Zeroth-Order Resonator Antennas Using Inductor-Loaded and Capacitor-Loaded CPWs. IEEE Transactions on Antennas and Propagation, 2011, 59, 3448-3453.	3.1	38
11	A V-Band On-Wafer Near-Field Antenna Measurement System Using an IC Probe Station. IEEE Transactions on Antennas and Propagation, 2013, 61, 2058-2067.	3.1	30
12	Compact CRLH CPW Antennas Using Novel Termination Circuits for Dual-Band Operation at Zeroth-Order Series and Shunt Resonances. IEEE Transactions on Antennas and Propagation, 2013, 61, 1071-1080.	3.1	29
13	Analysis of Antenna Coupling in Near-Field Communication Systems. IEEE Transactions on Antennas and Propagation, 2010, 58, 3327-3335.	3.1	27
14	Dual-Band Planar Monopole Antenna for Multiband Mobile Systems. IEEE Antennas and Wireless Propagation Letters, 2008, 7, 769-772.	2.4	26
15	In Situ Optimization of Metamaterial-Inspired Loop Antennas. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 75-78.	2.4	26
16	A Compact Triband Bow-Tie Slot Antenna Fed by a Coplanar Waveguide. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 1205-1208.	2.4	26
17	Dual-Band Slot Dipole Antenna Fed by a Coplanar Waveguide. , 2006, , .		25
18	Miniaturization of CPW-Fed Slot Antennas Using Reactive Terminations and Truncated Bilateral Ground Plane. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 1072-1075.	2.4	23

#	ARTICLE	IF	CITATIONS
19	In-Line Series-Feed Collinear Slot Array Fed by a Coplanar Waveguide. IEEE Transactions on Antennas and Propagation, 2007, 55, 1739-1744.	3.1	18
20	A Modified CPW-Fed Slot Loop Antenna With Reduced Cross Polarization and Size. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 1124-1126.	2.4	16
21	Device Saturation Behavior of Submillimeter-Wave Membrane Photonic Transmitters. IEEE Photonics Technology Letters, 2004, 16, 873-875.	1.3	15
22	Open-ended rampart slot array antenna fed by a CPW. IEEE Antennas and Wireless Propagation Letters, 2005, 4, 320-322.	2.4	14
23	Compact CRLH Asymmetric-CPS Resonant Antenna With Frequency Agility. IEEE Transactions on Antennas and Propagation, 2014, 62, 527-534.	3.1	14
24	Modification of Radiation Patterns of First Harmonic Mode of Slot Dipole for Dual-Frequency Operation. IEEE Transactions on Antennas and Propagation, 2011, 59, 2707-2710.	3.1	13
25	On the Fundamental Resonance of Slot Loop Antenna Inductively Fed by a Coplanar Waveguide. IEEE Transactions on Antennas and Propagation, 2013, 61, 6191-6195.	3.1	13
26	A Novel Dual-Antenna Structure for UHF RFID Tags. IEEE Transactions on Antennas and Propagation, 2011, 59, 3950-3960.	3.1	12
27	Broadband Slot-Type Bruce Array Fed by a Microstrip-to-Slotline T-Junction. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 116-119.	2.4	11
28	3-D Microwave Holographic Imaging With Probe and Phase Compensations. IEEE Transactions on Antennas and Propagation, 2018, 66, 368-380.	3.1	11
29	Miniaturization of slot loop antenna using split-ring resonators. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	10
30	Circularly polarized resonant cavity antenna using single-layer double-sided FSS superstrate. , 2012, , .		10
31	Frequency-Tunable Miniaturized Strip Loop Antenna Fed by a Coplanar Strip. IEEE Antennas and Wireless Propagation Letters, 2016, 15, 1000-1003.	2.4	10
32	Broadband Microstrip-Fed Modified Quasi-Yagi Antenna. , 0, , .		9
33	Coupled Twin Slots Fed by Conductor-Backed Coplanar Waveguide. IEEE Transactions on Antennas and Propagation, 2008, 56, 1784-1786.	3.1	9
34	Analysis of antenna coupling in near-field RFID systems. , 2009, , .		9
35	A focusing reflectarray and its application in microwave virus sanitizer. Radio Science, 2014, 49, 890-898.	0.8	9
36	A compact slot loop rectenna for dual-band operation at 2.4- and 5.8-GHz bands. , 2016, , .		9

#	ARTICLE	IF	CITATIONS
37	MNG-metamaterial-based efficient small loop antenna. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	8
38	High-gain circularly polarized resonant cavity antenna using FSS superstrate. , 2011, , .		8
39	A 2.45-GHz high-efficiency loop-shaped PIFA rectenna for portable devices and wireless sensors. , 2015, , .		8
40	A modified bow-tie slot antenna fed by a coplanar waveguide. , 2004, , .		7
41	Applications of optimization techniques to designs of ultra-wideband planar monopole antennas. , 2012, , .		7
42	An Automatically Tunable Cavity Resonator System. IEEE Transactions on Microwave Theory and Techniques, 2010, 58, 894-902.	2.9	6
43	A Self-Structuring Electromagnetic Scatterer. IEEE Transactions on Antennas and Propagation, 2012, 60, 1931-1941.	3.1	6
44	Miniaturization of CPW-fed slot antenna using a pair of interdigital capacitors. , 2013, , .		6
45	A compact RFID tag antenna using miniaturized patch structure for metallic object applications. , 2014, , .		5
46	Capacitively-Loaded Loop Antenna for Multi-Band Mobile Handsets. , 2008, , .		4
47	Compact modified bow-tie slot antenna fed by CPW for ultra-wideband applications. , 2009, , .		4
48	Efficiency-Enhanced and Size-Reduced Coupled Twin Slots Capacitively Fed by Conductor-Backed Coplanar Waveguide. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 1033-1035.	2.4	4
49	Frequency-agile, miniaturized slot antenna for hand-held devices. , 2010, , .		4
50	A modified U-slot patch antenna with full polarization agility. , 2016, , .		4
51	A novel dual-antenna structure for UHF RFID tags. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	3
52	Leakage-Reduced Conductor-Backed Coplanar Waveguide With Periodic Structures and its Antenna Application. IEEE Transactions on Antennas and Propagation, 2011, 59, 2078-2086.	3.1	3
53	Propagation, Resonance, and Radiation on Terahertz Optoelectronic Integrated Circuits. IEEE Photonics Journal, 2012, 4, 699-706.	1.0	3
54	Self-structuring electromagnetic scatterer using a conductor-backed template. , 2013, , .		3

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55	A Planar and Subwavelength Open Guided Wave Structure Based on Spoof Surface Plasmons. IEEE Photonics Journal, 2014, 6, 1-19.	1.0	3
56	CBCPW-Fed Side-Plane Patch Antenna. , 2008, , .		2
57	Finite-width conductor-backed coplanar waveguide-fed side-plane antenna. , 2008, , .		2
58	Miniaturized composite right/left-handed coplanar waveguide antenna for dual-frequency operation. , 2009, , .		2
59	A Self-Tuning Electromagnetic Shutter. IEEE Transactions on Antennas and Propagation, 2011, 59, 513-519.	3.1	2
60	Design of beam-steerable parasitic patch arrays using variable reactive loads. , 2015, , .		2
61	A novel circular-polarization-switchable slot ring antenna with diagonal cross slit. , 2017, , .		2
62	Design of beam-steerable dual-beam reflectarray. , 2017, , .		2
63	Dual-Probe Probe- and Phase-Compensated Reflection-Coefficient-Only 3-D Microwave Holographic Imaging. IEEE Transactions on Antennas and Propagation, 2019, 67, 1884-1897.	3.1	2
64	Compact Printed Dual-Dipole Antenna with a New T-Shaped Feeding Structure for Dual Broadband Operation. , 2019, , .		2
65	CPW-fed hybrid bow-tie/slot loop antenna for dual-frequency. , 2007, , .		1
66	Broadband quarter-wavelength slot array fed by a microstrip line. , 2008, , .		1
67	Terahertz photonic transmitters with a high-gain open-ended rampart slot array antenna. , 2010, , .		1
68	Design and optimization of a dual-antenna structure for passive RFID tags using design of experiments technique. , 2011, , .		1
69	A coupled folded resonator antenna for wireless sensor network application. , 2011, , .		1
70	General rules for objective functions in wide- and multi-band pixelized antenna design. , 2012, , .		1
71	Design consideration of closely spaced polarization-and pattern-diversity antenna pair. , 2012, , .		1
72	Compact dual-band loop antenna using c-shaped resonator for USB dongle application. , 2013, , .		1

#	ARTICLE	IF	CITATIONS
73	A continuously beam-steerable patch array using variable reactive reflection load. , 2014, , .		1
74	Probe-compensated microwave holographic imaging. , 2014, , .		1
75	Miniaturized CPW-fed slot loop antenna with frequency agility. , 2014, , .		1
76	Embedded antenna design based on zero and pole resonances for wireless sensor modules for applications in advanced greenhouses. , 2015, , .		1
77	Efficiency analysis of capacitive-coupled chassis antenna based on characteristic modes. , 2016, , .		1
78	Dual-Band broadside slot array with corporate-series-feed based on crlh microstrip line. , 2017, , .		1
79	Polarization-Reconfigurable Patch Antenna-on-Package for Millimeter-Wave Operations with DC Bias Circuit Design. , 2020, , .		1
80	A Duplexing Hybrid Slot Antenna Design With High Isolation for Short-Range Radar Detection and Identification Applications at 24 GHz Band. IEEE Transactions on Antennas and Propagation, 2022, 70, 2468-2479.	3.1	1
81	Parasitic Phase Contribution of A Double-Sided Parallel Stripline Phase Inverter. , 2019, , .		1
82	Design of Dual-Band Miniaturized Loop Antenna for Harmonic Radar Transponder. , 2021, , .		1
83	Conversion efficiency and device behavior of edge-coupled membrane photonic transmitters. , 0, , .		0
84	A 650 GHz photonic transmitter design using CPW-fed slot antenna. , 2004, , .		0
85	Design of Rampart Slot Array Antenna in Integrated 850GHz Photonic Transmitter. , 0, , .		0
86	Short-ended coplanar strip antenna for UHF RFID tags. , 2007, , .		0
87	A Simplified Method to Calculate Far-Field Patterns of Extended Hemispherical Dielectric Lens. , 2007, , .		0
88	Coplanar waveguide-fed twin slot antenna with and without back conductor. , 2008, , .		0
89	Pattern smoothness and gain enhancement of finite ground slot dipole antenna fed by conductor-backed coplanar waveguide. , 2008, , .		0
90	A method to determine the structure mode and antenna mode of A RFID tag antenna scattering. Digest / IEEE Antennas and Propagation Society International Symposium, 2009, , .	0.0	0

#	ARTICLE	IF	CITATIONS
91	Wideband asymmetric slot antenna fed by coplanar waveguide. , 2009, , .		0
92	Conductor-backed coplanar waveguide fed bilateral slot loop antenna. , 2010, , .		0
93	1Slot dipole antenna capacitively fed by CPW for dual-frequency operations. , 2010, , .		0
94	Finite-width conductor-backed coplanar waveguide-fed circularly polarized side-plane antenna. , 2010, , .		0
95	Metal strip-embedded slot bowtie antenna for Wi-Fi and WiMAX applications. , 2010, , .		0
96	Design of antenna on package exploiting self-resonance of carrier board. , 2012, , .		0
97	Rattlesnake Antenna System [Education Column]. IEEE Antennas and Propagation Magazine, 2013, 55, 232-243.	1.2	0
98	Modified short backfire antenna for antennas-on-package applications. , 2014, , .		0
99	Miniaturized SRRs-loaded loop structure for enhanced wireless power transmission. , 2014, , .		0
100	A novel design of reflection-type phase shifter for microwave life-detection system. , 2014, , .		0
101	The competitions of electromagnetic for undergraduate students in Taiwan: Taiwan creative electromagnetic implementation competition T-CEIC. , 2017, , .		0
102	A criterion for radar antenna design to enhance efficacy of polarimetric entropy in moving target discrimination. , 2017, , .		0
103	Frequency-Tunable Zeroth-Order Resonator Antenna Based on Capacitor-Loaded Coplanar Waveguide. , 2018, , .		0
104	Modified Binomial Power Distribution Beamformer for Switched-Beam Circular Array. , 2020, , .		0
105	Brewster Angle and Vanishing Polarization of Wave Reflected by Conductor-Backed Water Slab. , 2020, , .		0
106	Enhanced Phase Compensation Method for 3-D Microwave Holographic Imaging. , 2019, , .		0
107	Dual-Linearly-Polarized Printed Dual-Dipole Antenna Array for Polarimetric Radar Application. , 2020, , .		0
108	Analysis of Truncation Error in 3-D Microwave Holographic Imaging. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
109	Generalized equivalent circuit model of a split-ring-loaded dipole reflectarray unit cell under TE oblique incidence. IEICE Communications Express, 2022, 11, 284-289.	0.2	0