

Shih-Yuan Chen

List of Publications by Year in descending order

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109
papers

1,207
citations

471509
17
h-index

414414
32
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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. | 3.2 | 111 |
| 2 | CPW-fed folded-slot antenna for 5.8â€¦GHz RFID tags. Electronics Letters, 2004, 40, 1516. | 1.0 | 89 |
| 3 | Balanced-to-Unbalanced Bandpass Filters and the Antenna Application. IEEE Transactions on Microwave Theory and Techniques, 2008, 56, 2474-2482. | 4.6 | 88 |
| 4 | Isosceles Triangular Slot Antenna for Broadband Dual Polarization Applications. IEEE Transactions on Antennas and Propagation, 2009, 57, 3347-3351. | 5.1 | 63 |
| 5 | Uniplanar Log-Periodic Slot Antenna Fed by a CPW for UWB Applications. IEEE Antennas and Wireless Propagation Letters, 2006, 5, 256-259. | 4.0 | 57 |
| 6 | CPW-Fed Aperture-Coupled Slot Dipole Antenna for Tri-Band Operation. IEEE Antennas and Wireless Propagation Letters, 2008, 7, 535-537. | 4.0 | 55 |
| 7 | Integrated Dual Planar Inverted-F Antenna With Enhanced Isolation. IEEE Antennas and Wireless Propagation Letters, 2009, 8, 963-965. | 4.0 | 52 |
| 8 | Efficient Structure Resonance Energy Transfer from Microwaves to Confined Acoustic Vibrations in Viruses. Scientific Reports, 2016, 5, 18030. | 3.3 | 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. | 5.1 | 48 |
| 10 | Zeroth-Order Resonator Antennas Using Inductor-Loaded and Capacitor-Loaded CPWs. IEEE Transactions on Antennas and Propagation, 2011, 59, 3448-3453. | 5.1 | 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. | 5.1 | 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. | 5.1 | 29 |
| 13 | Analysis of Antenna Coupling in Near-Field Communication Systems. IEEE Transactions on Antennas and Propagation, 2010, 58, 3327-3335. | 5.1 | 27 |
| 14 | Dual-Band Planar Monopole Antenna for Multiband Mobile Systems. IEEE Antennas and Wireless Propagation Letters, 2008, 7, 769-772. | 4.0 | 26 |
| 15 | In Situ Optimization of Metamaterial-Inspired Loop Antennas. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 75-78. | 4.0 | 26 |
| 16 | A Compact Triband Bow-Tie Slot Antenna Fed by a Coplanar Waveguide. IEEE Antennas and Wireless Propagation Letters, 2010, 9, 1205-1208. | 4.0 | 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. | 4.0 | 23 |

| # | ARTICLE | IF | CITATIONS |
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| 19 | In-Line Series-Feed Collinear Slot Array Fed by a Coplanar Waveguide. IEEE Transactions on Antennas and Propagation, 2007, 55, 1739-1744. | 5.1 | 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. | 4.0 | 16 |
| 21 | Device Saturation Behavior of Submillimeter-Wave Membrane Photonic Transmitters. IEEE Photonics Technology Letters, 2004, 16, 873-875. | 2.5 | 15 |
| 22 | Open-ended rampart slot array antenna fed by a CPW. IEEE Antennas and Wireless Propagation Letters, 2005, 4, 320-322. | 4.0 | 14 |
| 23 | Compact CRLH Asymmetric-CPS Resonant Antenna With Frequency Agility. IEEE Transactions on Antennas and Propagation, 2014, 62, 527-534. | 5.1 | 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. | 5.1 | 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. | 5.1 | 13 |
| 26 | A Novel Dual-Antenna Structure for UHF RFID Tags. IEEE Transactions on Antennas and Propagation, 2011, 59, 3950-3960. | 5.1 | 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. | 4.0 | 11 |
| 28 | 3-D Microwave Holographic Imaging With Probe and Phase Compensations. IEEE Transactions on Antennas and Propagation, 2018, 66, 368-380. | 5.1 | 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. | 4.0 | 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. | 5.1 | 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. | 1.6 | 9 |
| 36 | A compact slot loop rectenna for dual-band operation at 2.4- and 5.8-GHz bands. , 2016, , . | | 9 |

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| 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. | 4.6 | 6 |
| 43 | A Self-Structuring Electromagnetic Scatterer. IEEE Transactions on Antennas and Propagation, 2012, 60, 1931-1941. | 5.1 | 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. | 4.0 | 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. | 5.1 | 3 |
| 53 | Propagation, Resonance, and Radiation on Terahertz Optoelectronic Integrated Circuits. IEEE Photonics Journal, 2012, 4, 699-706. | 2.0 | 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. | 2.0 | 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. | 5.1 | 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. | 5.1 | 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 |

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| 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. | 5.1 | 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 |

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| 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. | 1.4 | 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 |

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| 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. | 0.4 | 0 |