

Wai-Wa Choi

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6903897/publications.pdf>

Version: 2024-02-01

69
papers

1,709
citations

279798

23
h-index

276875

41
g-index

69
all docs

69
docs citations

69
times ranked

1218
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | A Low-Profile Aperture-Coupled Microstrip Antenna With Enhanced Bandwidth Under Dual Resonance. IEEE Transactions on Antennas and Propagation, 2017, 65, 1055-1062. | 5.1 | 186 |
| 2 | A Differential-Fed Microstrip Patch Antenna With Bandwidth Enhancement Under Operation of TM_{10} and TM_{30} Modes. IEEE Transactions on Antennas and Propagation, 2017, 65, 1607-1614. | 5.1 | 142 |
| 3 | A Novel Ultra-Wideband Differential Filter Based on Double-Sided Parallel-Strip Line. IEEE Microwave and Wireless Components Letters, 2010, 20, 471-473. | 3.2 | 109 |
| 4 | Tunable Bandpass Filter Design Based on External Quality Factor Tuning and Multiple Mode Resonators for Wideband Applications. IEEE Transactions on Microwave Theory and Techniques, 2013, 61, 2574-2584. | 4.6 | 105 |
| 5 | Novel Polarization Rotation Technique Based on an Artificial Magnetic Conductor and Its Application in a Low-Profile Circular Polarization Antenna. IEEE Transactions on Antennas and Propagation, 2014, 62, 6206-6216. | 5.1 | 88 |
| 6 | Wideband Shorted Patch Antenna Under Radiation of Dual-Resonant Modes. IEEE Transactions on Antennas and Propagation, 2017, 65, 2789-2796. | 5.1 | 74 |
| 7 | A Novel Differential-Fed Patch Antenna on Stepped-Impedance Resonator With Enhanced Bandwidth Under Dual-Resonance. IEEE Transactions on Antennas and Propagation, 2016, 64, 4618-4625. | 5.1 | 63 |
| 8 | Ultra-Wideband Differential Bandpass Filter With Narrow Notched Band and Improved Common-Mode Suppression by DGS. IEEE Microwave and Wireless Components Letters, 2012, 22, 185-187. | 3.2 | 61 |
| 9 | A Highly Integrated Antenna-Triplexer With Simultaneous Three-Port Isolations Based on Multi-Mode Excitation. IEEE Transactions on Antennas and Propagation, 2015, 63, 363-368. | 5.1 | 60 |
| 10 | Balanced Dual-Band Bandpass Filter With Multiple Transmission Zeros Using Doubly Short-Ended Resonator Coupled Line. IEEE Transactions on Microwave Theory and Techniques, 2015, 63, 2225-2232. | 4.6 | 60 |
| 11 | Analysis and Design of Wideband Microstrip-to-Microstrip Equal Ripple Vertical Transitions and Their Application to Bandpass Filters. IEEE Transactions on Microwave Theory and Techniques, 2017, 65, 2866-2877. | 4.6 | 53 |
| 12 | A Low-Profile Differential-Fed Patch Antenna With Bandwidth Enhancement and Sidelobe Reduction Under Operation of TM_{10} and TM_{12} Modes. IEEE Transactions on Antennas and Propagation, 2018, 66, 4854-4859. | 5.1 | 53 |
| 13 | A Compact Microstrip Square-Loop Dual-Mode Balun-Bandpass Filter With Simultaneous Spurious Response Suppression and Differential Performance Improvement. IEEE Microwave and Wireless Components Letters, 2011, 21, 77-79. | 3.2 | 52 |
| 14 | A Low-Profile Wideband Aperture-Fed Microstrip Antenna With Improved Radiation Patterns. IEEE Transactions on Antennas and Propagation, 2019, 67, 562-567. | 5.1 | 46 |
| 15 | A Low-Profile Differentially Fed Microstrip Patch Antenna With Broad Impedance Bandwidth Under Triple-Mode Resonance. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1478-1482. | 4.0 | 44 |
| 16 | A Wideband Differential-Fed Dual-Polarized Microstrip Antenna Under Radiation of Dual Improved Odd-Order Resonant Modes. IEEE Access, 2017, 5, 23672-23680. | 4.2 | 40 |
| 17 | Wideband Balanced-to-Unbalanced Bandpass Filters Synthetically Designed With Chebyshev Filtering Response. IEEE Transactions on Microwave Theory and Techniques, 2018, 66, 4528-4539. | 4.6 | 35 |
| 18 | Novel Wideband Bandpass Filter with Dual Notched Bands Using Stub-Loaded Resonators. IEEE Microwave and Wireless Components Letters, 2017, 27, 25-27. | 3.2 | 33 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Yagi-Uda Antenna for Multiband Radar Applications. IEEE Antennas and Wireless Propagation Letters, 2014, 13, 1065-1068. | 4.0 | 32 |
| 20 | Novel Multilayered Ultra-Broadband Bandpass Filters on High-Impedance Slotline Resonators. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 129-139. | 4.6 | 30 |
| 21 | An Angular-Displacement Microwave Sensor Using an Unequal-Length-Bi-Path Transversal Filtering Section. IEEE Sensors Journal, 2020, 20, 715-722. | 4.7 | 30 |
| 22 | Dual-Wideband Filtering Power Divider Based On Coupled Stepped-Impedance Resonators. IEEE Microwave and Wireless Components Letters, 2018, 28, 873-875. | 3.2 | 28 |
| 23 | Low-profile wide-beamwidth circularly-polarised patch antenna on a suspended substrate. IET Microwaves, Antennas and Propagation, 2016, 10, 885-890. | 1.4 | 27 |
| 24 | Electromagnetic-Thermal Analysis of Human Head Exposed to Cell Phones With the Consideration of Radiative Cooling. IEEE Antennas and Wireless Propagation Letters, 2018, 17, 1584-1587. | 4.0 | 22 |
| 25 | Polarisation rotation reflective surface based on artificial magnetic conductor and its application. Electronics Letters, 2014, 50, 1500-1502. | 1.0 | 21 |
| 26 | Wideband Microstrip-to-Microstrip Vertical Transition With High Filtering Selectivity Using Open-Circuited Slotline SIR. IEEE Microwave and Wireless Components Letters, 2017, 27, 329-331. | 3.2 | 21 |
| 27 | Compact Stripline Dual-Band Bandpass Filters With Controllable Frequency Ratio and High Selectivity Based on Self-Coupled Resonator. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 102-110. | 4.6 | 18 |
| 28 | An Angular Displacement Sensor Based on Microwave Transversal Signal Interference Principle. IEEE Sensors Journal, 2020, 20, 11237-11246. | 4.7 | 16 |
| 29 | An Angular Displacement Sensor Based on Microstrip Wideband Impedance Transformer With Quasi-Chebyshev Frequency Response. IEEE Sensors Journal, 2020, 20, 4200-4206. | 4.7 | 15 |
| 30 | Miniaturized Parallel Coupled-Line Filter-Antenna With Spurious Response Suppression. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 726-729. | 4.0 | 14 |
| 31 | Differential Permittivity Sensor Using Microstrip Terminated Cross-Shaped Resonator Structure for Material Characterization. IEEE Access, 2019, 7, 101960-101968. | 4.2 | 12 |
| 32 | Realization of Extremely High and Low Impedance Transforming Ratios Using Cross-Shaped Impedance Transformer. IEEE Transactions on Circuits and Systems II: Express Briefs, 2020, 67, 1189-1193. | 3.0 | 11 |
| 33 | Analysis of Coupled Cross-Shaped Resonator and Its Application to Differential Bandpass Filters Design. IEEE Transactions on Microwave Theory and Techniques, 2014, 62, 2942-2953. | 4.6 | 10 |
| 34 | Design of triple-band and triplex slot antenna using triple-mode cavity resonator. IET Microwaves, Antennas and Propagation, 2019, 13, 2303-2309. | 1.4 | 9 |
| 35 | Directional coupler-based microwave sensors for differential angular displacement measurement. International Journal of RF and Microwave Computer-Aided Engineering, 2020, 30, e22338. | 1.2 | 7 |
| 36 | A Novel Microstrip Transversal Bandpass Filter with Simultaneous Size Reduction and Spurious Responses Suppression. , 0, , . | | 6 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Design and analysis of defected ground structure transformer for dual-band antenna. Journal of Engineering, 2014, 2014, 612-617. | 1.1 | 6 |
| 38 | ZigBee wireless sensor network for surface drainage monitoring and flood prediction. , 2014, , . | | 5 |
| 39 | Wideband vertical microstrip-to-microstrip transition with three-pole filtering response. Microwave and Optical Technology Letters, 2015, 57, 2213-2216. | 1.4 | 5 |
| 40 | Defected Ground Structure of UWB Chipless RFID Tag for FMCW Radar. , 2018, , . | | 5 |
| 41 | Defected Ground Structure With Half-Wavelength Spiral Resonator of Ultrawide Band Chipless RFID Tag. IEEE Journal of Radio Frequency Identification, 2019, 3, 121-126. | 2.3 | 5 |
| 42 | Design of Wideband Bandpass Filter With Simultaneous Bandwidth and Notch Tuning Based on Dual Cross-Shaped Resonator. IEEE Access, 2020, 8, 27038-27046. | 4.2 | 5 |
| 43 | Wideband Out-of-Phase Filtering Power Divider with High Selectivity. , 2018, , . | | 4 |
| 44 | Design of microwave lumped and transversal bandpass filter with noise reduction. Microwave and Optical Technology Letters, 2006, 48, 1161-1164. | 1.4 | 3 |
| 45 | A Microstrip SIR Dual-Mode Bandpass Filter with Simultaneous Size Reduction and Spurious Responses Suppression. , 2008, , . | | 3 |
| 46 | Fully tunable filter design using tunable transformers and multiple mode resonators. , 2013, , . | | 3 |
| 47 | Design of wideband bandpass filter with reconfigurable bandwidth using cross-shaped resonator. , 2015, , . | | 3 |
| 48 | Wideband vertical microstrip-to-microstrip transition designed with cross-coupled microstrip/slotline resonators. , 2015, , . | | 3 |
| 49 | Using intrinsic zero to notch satellite signals in UWB filter. International Journal of Microwave and Wireless Technologies, 2017, 9, 1009-1015. | 1.9 | 3 |
| 50 | Short Range FMCW Radar for Velocity and Range Detection of Slow Moving Target. , 2018, , . | | 3 |
| 51 | Design of a compact microstrip balanced-to-balanced filtering power divider with real impedance-transformation functionality. IET Microwaves, Antennas and Propagation, 2021, 15, 481-494. | 1.4 | 3 |
| 52 | An Ingenious Multiport Interferometric Front-End for Concurrent Dual-Band Transmission. IEEE Transactions on Microwave Theory and Techniques, 2022, 70, 1725-1731. | 4.6 | 3 |
| 53 | Spurious suppressed microstrip bandpass filter with two transmission zeros. Microwave and Optical Technology Letters, 2006, 48, 1979-1981. | 1.4 | 2 |
| 54 | A low-profile circularly polarized dipole antenna using a novel polarization rotation artificial magnetic conductor. , 2014, , . | | 2 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 55 | A printed wide-beamwidth circularly polarized antenna via two pairs of radiating slots placed in a square contour. International Journal of Microwave and Wireless Technologies, 2017, 9, 649-656. | 1.9 | 2 |
| 56 | Compact wideband microstrip-to-microstrip vertical transition with extended upper stopband. International Journal of RF and Microwave Computer-Aided Engineering, 2018, 28, e21228. | 1.2 | 2 |
| 57 | Tunable defected ground structure and its applications to simultaneous reconfigurable communication and partial discharge detection. , 2012, , . | | 1 |
| 58 | Differential microstrip bandpass filter with dual-band responses using parallel-coupled line structure. , 2012, , . | | 1 |
| 59 | Design of dual-band bandpass filters using cross-shaped resonator and spurline. , 2015, , . | | 1 |
| 60 | Design of ultra-wideband bandpass filter with two reconfigurable notches using terminated cross-shaped resonator. , 2015, , . | | 1 |
| 61 | Discussion of conversion theory between mixed-mode S-parameters and T-parameters for differential circuit with and without common-mode suppression. , 2015, , . | | 1 |
| 62 | Wideband Out-of-Phase Filtering Power Divider with Ultra-Wide Isolation Band. , 2019, , . | | 1 |
| 63 | Improvement of gain compression in microwave lumped and transversal bandpass filters. , 2005, , . | | 0 |
| 64 | A novel compact microstrip dual-band bandpass filter based on transversal filter structure and centrally loaded resonator with independent control of passbands. , 2008, , . | | 0 |
| 65 | Size reduction of microstrip crossover using defected ground structure and its application in butler matrix. , 2013, , . | | 0 |
| 66 | Frequency-agile slot antenna using capacitive loaded parallel strips. , 2015, , . | | 0 |
| 67 | Vertical microstrip-to-microstrip transition through the highpass-filter topology for ultra-wideband (UWB) applications. HKIE Transactions, 2016, 23, 19-25. | 0.1 | 0 |
| 68 | Novel Microstrip-To-Microstrip Vertical Transition Designed with Slotline Stepped-Impedance Resonator. , 2018, , . | | 0 |
| 69 | Design of compact planar power divider with wideband bandpass response and high in-band isolation. IET Microwaves, Antennas and Propagation, 2021, 15, 954-965. | 1.4 | 0 |